B40-14

COUNTY OF NASSAU
DEPARTMENT OF PUBLIC WORKS
WESTBURY, NEW YORK

2014 GENERAL REQUIREMENTS CONTRACT FOR VARIOUS CIVIL/SITE RECONSTRUCTION HIGHWAYS, DRAINAGE, BRIDGES, SITE, PARKING LOTS AND PARK RELATED SPECIALIZED ITEMS NASSAU COUNTY, NEW YORK

CONTRACT NO. H66302U

Edward P. Mangano
County Executive

B40-14

RO 326 -2014

A RESOLUTION AUTHORIZING THE COUNTY EXECUTIVE TO AWARD AND EXECUTE A CONTRACT BETWEEN THE COUNTY OF NASSAU ACTING ON BEHALF OF THE NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS AND THE LANDTEK GROUP, INC.

Passed by the Rules Committee
Nassau County Legislature
By Voice Vote on 12/15/14
VOTING:
ayes 4 **nayes** 0 **abstained** 3 **recused** 0
Legislators present: 7

WHEREAS, in accordance with all Federal, State and Local Law, the County of Nassau on behalf of the NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS ["Department"] has received competitive bids for contract H66302U, for 2014 REQUIREMENTS CONTRACT – FOR VARIOUS CIVIL/SITE RECONSTRUCTION – HIGHWAYS, DRAINAGE, BRIDGES, SITE, PARKING LOTS & PARK RELATED SPECIALIZED ITEMS ["Contract"], as more particularly described in the contract documents, a copy of which are on file with the Clerk of the Legislature; and

WHEREAS, the Department is representing to the Rules Committee that the term of this requirements contract is two (2) years, and the estimated expenditures under this contract is a total of $ 8,000,000, at $ 4,000,000.00 per year, and

WHEREAS, the firm of THE LANDTEK GROUP, INC.

["Vendor"] has submitted the lowest responsible comparison bid for the work described in the contract in accordance with all Federal, State and Local Law as determined by the Department, and

WHEREAS, the Commissioner of the Department is recommending to the Rules Committee that the contract be awarded to the vendor; now; therefore, be it

RESOLVED, that the Rules Committee of the Nassau County Legislature, based on the representations of the Department and the recommendation of the Commissioner of the Department, authorizes the County Executive to award and execute the said contract with the vendor.

EDWARD P. MANGANO
COUNTY EXECUTIVE

SHILA SHAH-GAVNOUDIAS, P.E.
COMMISSIONER

COUNTY OF NASSAU
DEPARTMENT OF PUBLIC WORKS
1194 PROSPECT AVENUE
WESTBURY, NEW YORK 11590 - 2723

September 10, 2014

RE: 2014 General Requirements Contract for Various Civil/Site Reconstruction, Highways, Drainage, Bridges, Site, Parking Lots and Park Related Specialized Items

Contract No. **H66302U**

ADDENDUM No. 1

To all prospective Bidders:

1. Prospective Bidders are hereby informed the Bid Documents for the above noted contract are amended as follows:

   Updated Itemized Proposal Sheet 16 of 64: The unit for Item 27M shall be changed from SF to LF as per the latest edition of the NCDPW Standard Specifications.
   Please replace Itemized Proposal Sheet 16 of 64 with the updated sheet 16 of 64.
   The total number of sheets is 1.

FORM OF PROPOSAL

A. No Change.

B. All other terms and conditions of this portion of the Bid Documents shall remain un-amended.

BID DUE DATE

A. No Change.

B. All other terms and conditions of this portion of the Bid Documents shall remain un-amended.

If you have any questions, please contact Jose Viteri of the Civil/Site Construction Management Unit via fax at 516-571-9656, or email to jviteri@nassaucountyny.gov.

END OF ADDENDUM No. 1

ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid		Amount Bid	
			Dollars	Cents	Dollars	Cents
27M	200.00 LF	Concrete Mowing Strip-16" For _____ Dollars Cents				
27MS	200.00 SF	Concrete Mowing Strip-16" to 36" Wide For _____ Dollars Cents				
27SP	50.00 SF	Cement Concrete Pavement- Structures Parks For _____ Dollars Cents				
28	500.00 SF	Cement Concrete Driveways and Driveway Aprons For _____ Dollars Cents				
29	500.00 SF	Driveway Restoration For _____ Dollars Cents				
30	200.00 SY	Metal Reinforcement For Concrete Pavement For _____ Dollars Cents				
31	500.00 LF	Transverse Joint Supports For _____ Dollars Cents				

* Force Bid Price

Contract No. H66302U

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Nassau County

New York

NOTICE TO BIDDERS

Sealed Proposals, invited by the County of Nassau, will be received by the County Executive of Nassau County, in the office of the Clerk of the Nassau County Legislature, Room 117, in the Theodore Roosevelt Executive and Legislative Building, 1550 Franklin Avenue, Mineola, New York, on **September 16, 2014** until 10:30 AM, at which time the Proposals where accompanied with and presented separate from the required Bid Security will be publicly opened and read aloud, in the Meeting Room of the Nassau County Legislature, and the contract awarded as soon thereafter as practicable for:

2014 GENERAL REQUIREMENTS CONTRACT
FOR VARIOUS CIVIL/SITE RECONSTRUCTION
HIGHWAYS, DRAINAGE, BRIDGES, SITE, PARKING LOTS AND PARK
RELATED SPECIALIZED ITEMS
NASSAU COUNTY, NEW YORK
CONTRACT No. H66302U

The work covered by this contract involves furnishing labor, materials, tools, equipment and incidentals as specified for the rehabilitation and/or installation, modification and/or removal of highways, drainage systems, pavement, parking lot, and parks related work and /or emergency work at various locations to be selected in Nassau County during a twenty four month period, starting from the issuance of the first" commence work" order.

Instructions to Bidders, Form of Bid Bond, Proposal, Form of Agreement, Specifications and the Plans, herein called the "Contract Documents", may be examined at the Permit Office of the Department of Public Works, first floor, 1194 Prospect Avenue, Westbury, Nassau County, New York, 11590-2723, Phone No. (516) 571-6840, **from 9:00 AM on August 29, 2014 until 3:45 PM on September 12, 2014 (closed from 12:00 Noon to 1:00 P.M).** Copies of the Contract Documents will be available at the time and place indicated on a CD in PDF format.

A non-refundable fee of **$150.00** by check or money order, payable to the Nassau County Treasurer, will be required for each set of the Contract Documents requested. Prospective bidders requesting contract documents by mail must remit to the Prospect Avenue address an additional, non-refundable, fee of $30.00 per set, to cover handling and first class mailing.

In order to ensure that you are submitting bids based on the plans and specifications provided by the Department, please be advised that the Department will only accept bids from bidders who are on the "List of Bidders" who purchased the plans and specifications from the Department.

Security for Bid as set forth herein must be presented with the Bid.
"FAILURE TO PROVIDE THE REQUIRED SECURITY WILL RENDER THE BIDDER NON-RESPONSIVE AND THE BID WILL NOT BE ACCEPTED, OPENED OR READ ALOUD."

This Contract will be subject to Nassau County Local Law No. 9-2002, which requires that firms entering into contracts must participate in registered and approved apprenticeship training programs. At the time of bid submission, the Contractor and its proposed Subcontractors shall submit as part of its bid an affidavit of participation in approved apprenticeship training programs that are appropriate for the type and scope of work to be performed under the Agreement. The apprenticeship training programs shall be registered with, and approved by, the New York State Commissioner of Labor in accordance with Article 23 of the New York State Labor Law. Note that if the Contractor does not comply with these requirements, the Commissioner may declare the Contractor's bid proposal non-responsive and award the Contract to the next lowest responsible Bidder.

Dated at Mineola, LI
August 27, 2014

By Order of Edward P. Mangano
County Executive
By William J. Muller
Clerk of the Legislature

NO TEXT ON THIS PAGE

INSTRUCTIONS TO BIDDERS

A. RECEIPT AND OPENING OF BIDS

The County of Nassau, State of New York, invites bids on the forms attached hereto, all blanks of which must be properly completed. Bids together with Bid Security will be received by the Clerk of the Legislature of Nassau County, Room 117, in the Theodore Roosevelt Executive and Legislative Building, 1550 Franklin Avenue, Mineola, New York until 10:30 A.M., on the date noted in the Notice to Bidders, and Bids accompanied with Bid Security will be opened and read aloud in the Legislative Chambers Theodore Roosevelt Executive and Legislative Building.

B. BIDDER'S OBLIGATIONS

1. Bidders shall be responsible at the time of bidding for completing all certifications required by these Contract Documents. Failure to comply with this requirement may cause the bidder to be considered non-responsive and therefore not eligible for award.

2. Bidders are cautioned not to submit proposals without having carefully examined the entire site of the proposed work and the adjacent premises, and the various means of approach to the site and shall make all necessary investigations to inform themselves thoroughly as to the facilities for delivering, placing, and operating the necessary plant, and for delivering and handling the material at the site, and to inform themselves thoroughly as to all the difficulties involved in the completion of all work under this contract in accordance with its requirements.

3. Bidders shall examine the Drawings and Specifications and exercise their own judgment as to the nature and amount of the whole of the work to be done and, for the bid prices, shall assume all risk of variance by whomsoever made in any computation or statement of amounts or quantities necessary to fully complete the work in strict compliance with the Contract Documents.

4. The Contractor shall assume all risks and responsibility and shall complete the work in whatever material and under whatever conditions he may encounter or create, without extra cost to the County.

5. The County may have acquired for its own use certain information relating to the probable profiles of the ground, conditions below ground and water surfaces to be encountered at the site of the proposed work some of which may be shown on the plans. If such

information is shown or given, the County makes no representation or warranty as to its existence or accuracy. The Bidder will be permitted to see and examine any information in the possession of the County for whatever value he considers it worth. The Bidder shall satisfy himself as to the nature of all subsurface conditions, by making any and all investigations he may deem necessary.

6. No plea of ignorance or misunderstanding of conditions that exist or that may hereafter exist, or of conditions or difficulties that may be encountered in the execution of the work under this Contract, as a result of failure to make the necessary examinations and investigations, will be accepted as an excuse for any failure or omission on the part of a Contractor to fulfill in every detail all of the requirements of the Contract Documents, or will be accepted as a basis for any claims whatsoever for extra compensation, or for an extension of time.

7. Bidders are warned that the estimates of the quantities of the various items of work and materials as set forth in the proposal form are approximate only and are given solely to be used as a uniform basis for the comparison of bids. The quantities actually required to complete the contract work may be less or more than so estimated, and, if so, no action for damages or for loss of profits shall accrue to the Contractor by reason thereof.

8. Bidders are cautioned that, where the work performed under this Contract involves a trade or occupation licensed in the County of Nassau by the Town of Hempstead, Oyster Bay or North Hempstead or by the Cities of Glen Cove or Long Beach, the contractor shall be required to have such license.

C. DEFINITIONS

The Bidder's attention is directed to that Article of the Agreement and/or General Conditions which defines various words and expressions used therein.

D. FORM, PREPARATION AND PRESENTATION OF PROPOSALS

1. For particulars as to the quantity and quality of the supplies, materials, and equipment to be furnished and the nature and extent of the work or labor to be done, prospective bidders are referred to the Contract Documents which may be obtained or examined at the office of the Contracts and Permits of the Department of Public Works.

2. Each bid shall be submitted upon the prescribed proposal form. All blank spaces for bid prices must be filled in, in ink, in both words and figures, with the unit or total sum, or both, for which the proposal is made. If proposals contain any omission, erasures, alterations, additions or items not called for in the itemized proposal or contain irregularities of any kind, such may constitute cause for rejection of bid. In case of any discrepancy in the unit price or amount bid for any item in the proposal, the unit price, as expressed in written words, shall govern. Each proposal shall specify the correct total sum of the bid. This total sum shall be the correct sum of all items indicated on the proposal form. The correct total sum shall be used to determine the lowest bidder. In the case of a proposal containing unit price items, the correct total sum shall be arrived at by the correct computation, to the hundredth of a dollar ($0.00), of all items contained in the proposal at the unit prices bid, and correctly adding the amount bid for each item. If a bidder incorrectly computes the total sum, the Commissioner will, in all cases, cause the proposal to be corrected, up or down, in accordance with the precedence and procedure specified above, and the corrected total sum will be used to determine the ranking of the bidder. IN NO CASE IS THE AGREEMENT TO BE FILLED OUT OR SIGNED BY THE BIDDER.

E. SUBMISSION OF BIDS

The BID must be signed and verified, and be presented on the prescribed form in a sealed envelope on or before the time at the place mentioned in the Notice to Bidders, endorsed with the name of the person, firm or corporation presenting it, the date of presentation, and the title of the work for which the BID is made. (If forwarded by mail, the sealed envelope containing the proposal and marked as directed above, must be enclosed in another envelope addressed as specified in the Notice to Bidders, preferably by certified mail). Bid Security shall also be presented with the BID and shall be presented in a sealed envelope, marked **"Bid Security,"** and submitted **separate** from the BID. Said sealed envelope shall bear the contract number of the BID it is presented with and then **"attached to the OUTSIDE of the envelope containing the BID."**

F. BIDDING PROTEST PROCEDURE

1. If a Bid Protest is contemplated, the County of Nassau must be notified immediately, in writing. The notification must contain facts in support of the protest, and directed to the Office of the Clerk of the Nassau County Legislature and copied to the Department of Public Works.

William J. Muller
Clerk of the Legislature
1550 Franklin Avenue
Mineola, NY 11501

Shila Shah-Gavnoudias, P.E.
Office of the Commissioner
1194 Prospect Avenue
Westbury, NY 11590

2. A written decision relative to the Bid Protest will be sent, to the person protesting, prior to accepting bids or awarding of contract. If the decision is not acceptable, or you feel that further action is warranted, then you may pursue available legal remedies.

G. ADDENDA AND INTERPRETATIONS

No interpretation of the meaning of the Drawings, Specifications or other Contract Documents will be made to any Bidder orally. Prospective bidders must request in writing such interpretation from the Commissioner and such interpretation will be given in writing. To be given consideration, such request must be received at least seven working days prior to the date fixed for the opening of bids. Any and all such interpretations and any supplemental instructions will be in the form of written addenda which, if issued, will be sent by certified mail, with return receipt requested, to all prospective bidders (at the respective address furnished for such purposes) not later than five (5) working days prior to the date fixed for the opening of bids. Failure of any bidder to receive any such addenda or interpretation shall not relieve any bidder from any obligation under his bid as submitted. All addenda so issued shall become part of the Contract Document.

H. BID SECURITY

1. The proposal must be accompanied either by a certified check of a Bank or Trust Company with its principal place of business in New York State in an amount of Four Hundred Thousand Dollars, $ 400,000.00, made payable to the County of Nassau as assurance that the bid is made in good faith; or a BID BOND in an amount of not less than 10% of the amount bid. SUCH BID BOND SHALL BE IN FORM PROVIDED HEREIN. The American Institute of Architects or similar substitute forms will NOT be accepted (see Form of Bid Bond immediately following the Instruction to Bidders). **The BID BOND must be affixed to the OUTSIDE of the envelope containing the BID as indicated earlier in the INSTRUCTIONS TO BIDDERS.** FAILURE TO PROVIDE SUCH BID BOND OR CERTIFIED CHECK WITH THE BID WILL RENDER THE BIDDER NON-RESPONSIVE AND THE BID WILL NOT BE ACCEPTED, OPENED OR READ ALOUD.

2. If after opening the BID, the Bid Security is found to be less than the required $ 400,000.00, the BID will at that point be determined to be non-responsive and the BID will be rejected.

3. All Bonds shall be issued by a Surety Company authorized to do business in the State of New York as evidenced by the Surety Company's most recent Certificate of Solvency under Section 1111 of the New York Insurance Law, a copy of which shall be attached to the Bond **OR** issued by a Surety Company listed in the most recent copy of the Department of Treasury=s Listing of Approved Sureties (Department Circular 570). The amount of said Bonds shall not exceed limits set by the aforesaid Certificate of Solvency or Treasury Department Circular.

4. Within three days after the opening of bids, the bid security of all but the three lowest bidders will be returned. The bid security of the remaining bidders will be returned within two days after the execution of the Contract.

5. If the Bidder to whom the Contract is awarded refuses or neglects to execute it, or fails to furnish the required security and insurance, within ten (10) days of the date of the Notice of Award, the amount of his bid security shall be forfeited and shall be retained by the County as liquidated damages. No plea of mistake in a bid shall be available to the Bidder for the recovery of his bid security or as a defense to any action based on the neglect or refusal to execute a contract.

I. QUALIFICATIONS AND RESPONSIBILITY OF BIDDERS

QUALIFICATION: A form for qualification of bidders, giving evidence of sufficient facilities, equipment, and experience to insure completion of the work is provided with the proposal and must be properly filled in, sworn to and submitted as part of the proposal although additional information may be sought as provided in the RESPONSIBILITY section below.

RESPONSIBILITY: The COUNTY, in determining the responsibility of the apparent lowest bidder, may require, and the apparent lowest responsible bidder shall Provide, such information as the COUNTY deems necessary in order to ascertain the pecuniary and financial responsibility, accountability, operational responsibleness, reliability, skill, capacity, ability, judgment, integrity and moral worth of the apparent lowest bidder shall be rejected or fails to furnish the requested information and thereby is disqualified and/or otherwise determined to be not responsible, the next lowest bidder shall become the apparent lowest responsible bidder.

1. The COUNTY may require the apparent lowest responsible bidder, in addition to other information, to furnish the following items:

   a. Description of its experience with projects of similar comparative size, complexity, and cost within recent years, together with documentary evidence of such projects; demonstration of Contractor's ability and capacity to perform a substantial portion of the Project with its own forces.

   b. Description of the bidder's proposed approach to the project; with a breakdown of the major construction activities; the sequence they will be performed; and their durations.

   c. Documentation from previous projects regarding: timeliness of performance; quality of work; extension requests; labor disputes; litigation and/or arbitration arising from such work, including fines and penalties imposed and payment thereof; liens filed; history of claims for extra work; =contract defaults; together with explanations of same.

   d. Identification and description of any projects within the previous five years that the apparent lowest bidder was determined by a municipality not to be a responsible bidder, the reasons given by such municipality therefore, together with explanations thereof.

   e. An adequate demonstration of financial responsibility, which may include, in the COUNTY'S discretion, a Certified Financial Statement prepared by a Certified Public Accountant, to assure that the apparent lowest bidder possesses adequate resource and availability of credit and the means and ability to procure insurance and bonds required for the project.

   f. Disclosure of any suspensions or revocations of any professional license of any director, officer, owner, or managerial employee of the apparent lowest bidder, to the extent that any work to be performed is within the field of such licensed profession.

   g. Disclosure of any and all Occupational Safety and Health Act (OSHA) violations within the previous three years, as well as all notices of OSHA violations filed against the apparent lowest bidder in the same three year Period, together with a description and explanation of remediation or other steps taken regarding such violations and notices of violation.

h. Disclosure of any and all violations within the previous five years pertaining to unlawful intimidation or discrimination against any employee by reason of race, creed, color, disability, sex or natural origin and/or violations of an employee's civil rights or equal employment opportunities.

i. Certification and list of equipment owned and/or leased by the apparent lowest bidder that will be utilized on the project, together with maintenance records and such assurances regarding safety thereof as the County considers appropriate.

j. Disclosure of any litigation (including copies of Pleadings) in which the apparent lowest bidder has been named as a Defendant or third party defendant in an action involving a claim for personal injury or wrongful death arising from performance of work related to any project in which it has been engaged within the previous five years.

k. Disclosure of violations of the Prevailing Wage and Supplemental Payment Requirements of the Labor Law, and any other Labor Law provisions, including, but not limited to, child labor violations, failure to pay wages, or unemployment insurance tax delinquencies within the past five years.

l. Disclosure of violations of the Workers' Compensation Law, including, but not limited to failure to provide proof of Workers' Compensation or Disability coverage and/or any lapses thereof.

m. Disclosure of any criminal convictions or criminal indictments, involving the apparent lowest bidder, its officers, directors, owners and/or managerial employees, within the past five years.

n. Disclosure of any violations within the past five years or pending charges concerning federal, state, or municipal environmental and/or health laws, codes, rules and/or regulations.

o. Identify all work to be subcontracted along with its value and when requested by the County identifying the firm(s) to which the work will be Subcontracted. All Subcontractors are subject to the approval of the County. The approval of the Subcontractors by the County, as provided in the General Conditions, may be subject to the same evaluation of responsibility.

2. Prior to a final determination that the apparent lowest bidder is not responsible, the County shall notify the party of the same, in writing, relaying the initial determination of non-responsibility. The apparent lowest bidder will have ten (10) calendar days to make an appeal, in writing, to the Commissioner. If such an appeal is made, the Commissioner, per established procedure, will convene a Standing Committee to hear the bidder's appeal. The Committee will render a final decision in the matter. Failure by the bidder to make an appeal within the ten (10) calendar day period will render the initial determination of non-responsibility final.

3. In the event the amount of the lowest bid appears disproportionately low when compared with the estimates undertaken by or on behalf of the COUNTY and/or compared to other bids submitted, the COUNTY reserves the right to inquire further of the apparent lowest bidder to determine whether the bid contains mathematical errors, omissions and/or erroneous assumptions, and whether the apparent lowest bidder has the capability to perform and complete the contract for the bid amount.

NOTWITHSTANDING THE ABOVE, THE COUNTY RESERVES THE RIGHT TO REJECT ANY AND ALL BIDS AS ELSEWHERE PROVIDED HEREIN.

J. SECURITY FOR FAITHFUL PERFORMANCE

The successful bidder shall execute both a Performance Bond and a Labor and Material Payment Bond on forms as hereto attached, (see form of Performance Bond & Labor and Material Bond immediately following the section entitled "Agreement".) each in the amount of One Million Five Hundred Thousand Dollars, $1,500,000.00, such bonds to be executed by a surety company authorized to do business in the State of New York and acceptable to the County Comptroller; or bonds secured by collateral, or securities approved by the County Comptroller, and approved as to form and manner of execution by the County Attorney. The Attorney-in-fact who sign contract bonds must file with such bonds a certified copy of the power of attorney to sign such bonds.

All Bonds shall be issued by a Surety Company authorized to do business in the State of New York as evidenced by the Surety Company's most recent Certificate of Solvency under Section 1111 of the New York Insurance Law, a copy which **must** be attached to the Bond. The amount of said Bond shall not exceed limits set by the aforesaid Certificate of Solvency.

K. INSURANCE REQUIREMENTS

The successful bidder will be required to provide the types of insurance specified in the Agreement, General Conditions and Supplementary Conditions.

L. REJECTION OF BIDS

1. The County reserves the right to reject any bid if the evidence submitted in the statement of the Bidder's qualifications or if investigation of such Bidder fails to satisfy the County that such bidder is properly qualified to carry out the obligations of the Contract and to complete the work contemplated therein.

2. Conditional bids will not be accepted. The County reserves the right to reject any and all bids and to accept the bid which it deems most favorable to the interest of the County, after all bids have been examined and canvassed.

M. BASIS OF AWARD

The Contract will be awarded, if at all, to the lowest responsive responsible bidder, as determined by the County Executive and by terms and conditions of the Contracts.

N. STAGING AND STORAGE AREAS

Where appropriate and available, the County will permit the successful bidder to utilize County owned property in accordance with Specific Conditions as a staging and storage area. Bidders are advised to contact the Office of Contract and Permits to determine if such arrangements are available for the specific contract being bid.

O. CONTRACT PROCESSING FEE

In accordance with the provisions of Ordinance No. 201-2001, passed by the Legislature and approved by the County Executive (original on file with the Clerk of the Legislature), the successful bidder upon signing contracts will be required to pay the following fee schedule service charge for the administration of the contract by the County of Nassau:

Value of Contract	Administrative Fee
$0 - $5000	$0

$5001 - $50,000	$160
$50,001 - $100,000	$266
Over $100,000	$533

All checks are to be made payable to the Nassau County Treasurer.

P. STATE LAWS

1. Foreign Contractors must comply with provisions of Articles 9a, 16 and 16a of the Tax Law, as amended, prior to submission of the proposal for the performance of the work. The Certificate of the New York State Department of Taxation and Finance (TP-310) to the effect that all taxes have been paid by the foreign Contractor shall be conclusive proof of the payment of taxes. The term "foreign Contractor" as used herein means, in the case of an individual, a person who is a legal resident of another state or foreign country; in the case of a firm or co-partnership, one having one or more partners who is a legal resident of another state or foreign country; and, in the case of a corporation, one having its principal place of business in another state or country.

2. The attention of all prospective bidders is specifically called to the provisions of Section 25, subdivision 5, sections 70 and 71 of the Lien Law, as amended, in relation to funds being received by a Contractor for a public improvement declared to constitute trust funds in the hands of such Contractor to be applied first to the payment of certain claims.

3. The Contractor and each and every subcontractor performing work at the site of the project to which this Contract relates, shall comply with all applicable provisions of the Labor Law, as amended, of the State of New York and particularly Article 8 thereof. Attention is called to certain provisions of the Labor Law as set forth in the Agreement or General Conditions which are hereby referred to and made a part thereof.

Q. THE CONTRACT IS ALSO MADE SUBJECT TO:

1. GENERAL BUSINESS LAW, Section 322-a

2. GENERAL MUNICIPAL LAW, Section 103-d

3. LABOR LAW, Article 8 and Article 10

4. ADMINISTRATION CODE OF NASSAU COUNTY, Section 22-4.2 and 22-4.3

5. No Contractor, Subcontractor, nor any person acting on its behalf should in any manner discriminate because of race, creed, color, religion, sex, national origin, age, marital status or disability, against any citizen of the State of New York who is qualified and available to perform the work to which the employment relates.

6. Contracts receiving Federal Aid are referred to Section T., entitled, CONTRACTS WITH FEDERAL AID, of these instructions.

7. With reference to the foregoing and all other statutory citations contained in the bid documents, it is the Contractor's responsibility to apprise himself of the latest amendments.

8. Each and every provision of any law, rule or regulation required by law to be inserted in this Contract shall be deemed to be inserted herein, and the Contract shall be read and enforced as though it were included herein, and if through mistake or otherwise, any such provision is not inserted or is not correctly inserted, then upon the application of either party, the Contract shall be amended to make such insertion.

9. SUBCONTRACTOR LISTS - Except for projects to which a project labor agreement applies, (Labor Law Section 222). In accordance with GML § 101(5), each Bidder on a public work contract, valued under One Million Five Hundred Thousand ($1,500,000) Dollars, shall submit with its bid a separate sealed list that names each subcontractor that the Bidder intends to use to perform work on the contract, and the agreed-upon amount to be paid to each, for: (a) plumbing and gas fitting, (b) steam heating, hot water heating, ventilating and air conditioning apparatus and (c) electric wiring and standard illuminating fixtures. Notwithstanding the forgoing, all subcontractors must be approved by the Commissioner in writing prior to such subcontractor's performance of any work.

R. SALES TAX AND COMPENSATING USE TAX

Under the Laws of New York State all materials and supplies sold to a Contractor and which are to become an integral, component part of a structure, building or real property owned by an exempt organization such as the County of Nassau are exempt from the payment of New York State Sales or Compensatory Use Taxes. Therefore, the Contractor should not include any amount in its bid price to cover Sales Taxes.

S. RESPONSIBLE CONTRACTORS

1. The Owner will award contracts only to responsible contractors who possess the ability to perform successfully under the terms and conditions of the Contract. Consideration will be given to such matters as contractor integrity, record of past performance, and accessibility to financial and technical resources. A perspective contractor must affirmatively demonstrate his or her responsibility and, when necessary, the responsibility of proposed subcontractors. A determination of non responsibility will be made by the Owner's contracting officer if information obtained indicates clearly that the prospective contractor is not responsible. If a contracting officer has doubts about the productive capacity or financial strength of a prospective contractor which cannot be resolved affirmatively, the County will determine that the prospective contractor is non responsible. A determination and findings supporting the decision will be written for the file.

2. A prospective contractor must:

   a. Have adequate financial resources or the ability to obtain such resources as required during performance of the contract.
   b. Be capable of furnishing the supplies/services specified in accordance with the required delivery schedule. Upon request, the prospective contractor must furnish "acceptable evidence" of his ability to perform, such as firm commitments by sub-contractors, equipment supplies and facilities, and show his ability to obtain the necessary personnel.
   c. Not have an unsatisfactory record of performance.
   d. Not have an unsatisfactory record of integrity and business ethics.
   e. Be otherwise qualified and eligible to receive and award under applicable laws and regulations.

3. Debarred or Ineligible Bidders. No firm that is currently ineligible or debarred from the award of a direct Federal contract may be awarded a contract or a subcontract under a project supported by Federal funds. The contractor must include with his bid or proposal a certification that he is not on a current list of debarred or ineligible contractors for Federal contracts.

T. CONTRACTS WITH FEDERAL AID

1. A Pre-Award Conference to determine the lowest responsible

bidder's ability to fulfill the requirements of Executive Orders No. 11,246 and No. 11,375 is mandatory for all contracts exceeding $ 1,000,000.00. The Bidder will be informed during the Pre-Award Conference, the date, time and place set for a Pre-Construction Conference required by New York State.

2. Are subject to the provisions of Article 18 of the General Municipal Law of the State of New York, as amended; Sections 22-4.2 and 22-4.3 of the Administrative Code of Nassau County, the provisions of the Anti-Discrimination Order of Nassau County; and 41 CFR (Code of Federal Regulations) 60 including 60-1.4, 60-250.4 and 60-741.4.

3. No Contractor, Subcontractor, nor any person acting on its behalf should in any manner discriminate because of race, creed, color, religion, sex, national origin, age, marital status or disability, against any citizen of the State of New York who is qualified and available to perform the work to which the employment relates.

U. BIDS RECEIVED IN EXCESS OF THE ESTIMATED COST OF WORK

1. This section is not used in this contract.

V. FRINGE BENEFIT SUPPLEMENTS

The successful bidder will be required to comply with the Labor Law provisions contained in this Agreement.

NO TEXT ON THIS PAGE

FORM OF BID BOND

IMPORTANT The bidder shall instruct the Surety Company to follow the exact language of this form as any omission, addition or change in phraseology may cause rejection of the bid.

KNOW ALL MEN BY THESE PRESENTS,

that we, the undersigned The LandTek Group, Inc

as Principal; and The Hanover Insurance Company as surety, who is Licensed to do business in the State of New York, are hereby firmly bound unto the County of Nassau in the penal sum of Ten Percent of the Bid 10% of the bid but not but not less than $400,000. dollars ($ less than $400,000.) for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

Signed, this 9 day of September, 2014

The conditions of the above obligation is such that whereas the Principal has submitted to the County of Nassau a certain Bid attached hereto and hereby made a part hereof, to enter into a contract in writing for the work under Contract No. H66302U 2014 General Requirements Contract for Various Civil/Site Reconstruction Highways, Drainage, Bridges, Site, Parking Lots and Park Related Specialized Items

NOW, THEREFORE, the conditions of this obligation are such that if the Principal shall not withdraw said proposal except by mutual consent of the County of Nassau within a period of forty-five (45) days after the opening of bids and in the event of acceptance of the Principal's proposal, if the Principal shall,

a. when notified by the County, execute all necessary counterparts of the contract as set forth in the contract documents in accordance with the proposal as accepted; and

b. furnish bonds and other security as specified in the contract documents for the faithful performance and proper fulfillment of such contract, which bonds or other security shall be satisfactory in all respects to the County; and

c. in all respects, comply with the provisions set forth in the invitation to bid; or if the County of Nassau shall reject the aforesaid proposal for a reason other than the Principal's failure to satisfy the County that he has the necessary skill, experience and liquid assets required for the contract as stated in the

documents aforesaid, then this obligation shall be null and void; otherwise to remain in full force and effect.

Provided, however, that this bond is subject to the following additional conditions and limitations.

a. In the event that the Principal fails to submit a financial statement when required by the County or in the event that an examination of the Principal indicates to the County that the Principal does not meet the financial requirements required by the County, the undersigned will, upon demand, pay to the County of Nassau, as liquidated damages for the Principal's failure to meet such requirements, a sum equal to the amount that would have been required by a certified check if the same were delivered in accordance with the provisions of the contract documents and specifications herein stated.

b. In case the Principal shall default in the performance of any provision the undersigned will upon demand pay to the County of Nassau the full amount of the damages sustained by the County of Nassau by reason of such default, except however, it is expressly understood and agreed that the liability of the surety for any and all claims hereunder shall in no event exceed the amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligation of said Surety and its bond shall be in no way impaired or affected by any extension of time within which the County of Nassau may accept such Bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

The LandTek Group, Inc
Contractor

by _____ (L.S.)
Michael Ryan / President

(Corporate seal of Contractor if a corporation)

by _____ (L.S.)
Title

by _____ (L.S.)
Title

The Hanover Insurance Company
Surety

by _____ (L.S.)
Title of Officer Tara LaVerdiere
Attorney-in-Fact

Attest: _____ (L.S.)
Title of Officer

(Corporate seal of Surety)

(Acknowledgment by Contractor if a corporation)

STATE OF New York)
)
ss.:
COUNTY OF Suffolk)

On this 15th day of September, 2014, before me personally came Michael Ryan to me known, who, being by me duly sworn, did depose and say for himself, that he resides in 264 Secatogue Lane W. Islip, NY 11795 that he is the President of the The LandTek Group, Inc., the corporation described in, and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that he signed his name thereto by like order.

Jennifer A Peter (Jennifer A Peter)
Notary Public

JENNIFER A PETER (Jennifer A Peter)
NOTARY PUBLIC-STATE OF NEW YORK
No. 01PE6215464
Qualified In Suffolk County
My Commission Expires 12/28/17

(Acknowledgment by Contractor if a partnership)

STATE OF _____)
)
ss.:
COUNTY OF _____)

On this day of , 20 , before me personally came to me known and known to me to be a member of the firm described in and which executed the foregoing bond or obligation, and he acknowledged to me that he subscribed the name of said firm thereto on behalf of said firm for the purpose therein mentioned.

_____
Notary Public

(Acknowledgment by Contractor if an individual.)

STATE OF _____)
)
ss.:
COUNTY OF _____)

On this day of , 20 , before me personally came to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged that he executed the same.

_____
Notary Public

(Acknowledgment by Surety Company)

STATE OF New York)

)

ss.:
COUNTY OF Nassau)

On this 9 day of September , 2014 , before me personally came Tara Laverdiere to me Known, who being by me duly sworn, did depose and say that he resides in North Bellmore, NY that he is the Attorney-in-Fact of the The Hanover Insurance Company , the corporation described in and which executed the within instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by the order of the Board of Directors of said corporation, and that he signed his name thereto by like order; and that the liabilities of said company do not exceed its assets as ascertained in the manner provided by the laws of the State of New York, and the said Notary further said that he is acquainted with Tara Laverdiere and knows him to be the Attorney-in-Fact of said company; that the signature of the said Tara Laverdiere subscribed to the within instrument is in the genuine handwriting of the said Tara Laverdiere and was subscribed thereto by like order of the Board of Directors, and in the presence of him, the said Notary

[illegible] A. SPINELLO
Notary Public, State of New York
Registration #01SP6196103
Qualified in Nassau County
Commission Expires November 3, 2016

Notary Public

[illegible] A. [illegible]
Notary Public, State of New York
Registration #01SP6186103
Qualified in Nassau County
Commission Expires November 3, 2016

POWER OF ATTORNEY

ATTENTION: Insert the "Power of Attorney" after this page in with your bid submission.

THE HANOVER INSURANCE COMPANY
MASSACHUSETTS BAY INSURANCE COMPANY
CITIZENS INSURANCE COMPANY OF AMERICA

POWERS OF ATTORNEY
CERTIFIED COPY

KNOW ALL MEN BY THESE PRESENTS: That THE HANOVER INSURANCE COMPANY and MASSACHUSETTS BAY INSURANCE COMPANY, both being corporations organized and existing under the laws of the State of New Hampshire, and CITIZENS INSURANCE COMPANY OF AMERICA, a corporation organized and existing under the laws of the State of Michigan, do hereby constitute and appoint

Tara Laverdiere, Philip G. Samuels, Denese Thompson, Tara Laverdiere, Kim Spinello, Louis J. Spina, Marnie Ginsberg and/or Frank Abbatiello

of **Garden City, NY** and each is a true and lawful Attorney(s)-in-fact to sign, execute, seal, acknowledge and deliver for, and on its behalf, and as its act and deed any place within the United States, or, if the following line be filled in, only within the area therein designated

any and all bonds, recognizances, undertakings, contracts of indemnity or other writings obligatory in the nature thereof, as follows:
Any such obligations in the United States, not to exceed Ten Million and No/100 ($10,000,000) in any single instance

and said companies hereby ratify and confirm all and whatsoever said Attorney(s)-in-fact may lawfully do in the premises by virtue of these presents. These appointments are made under and by authority of the following Resolution passed by the Board of Directors of said Companies which resolutions are still in effect:

"RESOLVED, That the President or any Vice President, in conjunction with any Assistant Vice President, be and they are hereby authorized and empowered to appoint Attorneys-in-fact of the Company, in its name and as its acts, to execute and acknowledge for and on its behalf as Surety any and all bonds, recognizances, contracts of indemnity, waivers of citation and all other writings obligatory in the nature thereof, with power to attach thereto the seal of the Company. Any such writings so executed by such Attorneys-in-fact shall be as binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company in their own proper persons." (Adopted October 7, 1981 - The Hanover Insurance Company; Adopted April 14, 1982 – Massachusetts Bay Insurance Company; Adopted September 7, 2001 - Citizens Insurance Company of America)

IN WITNESS WHEREOF, THE HANOVER INSURANCE COMPANY, MASSACHUSETTS BAY INSURANCE COMPANY and CITIZENS INSURANCE COMPANY OF AMERICA have caused these presents to be sealed with their respective corporate seals, duly attested by a Vice President and an Assistant Vice President, this **25th** day of **August 2010**.

THE HANOVER INSURANCE COMPANY
MASSACHUSETTS BAY INSURANCE COMPANY
CITIZENS INSURANCE COMPANY OF AMERICA

Mary Jeanne Anderson, Vice President

Robert K. Grennan, Assistant Vice President

THE COMMONWEALTH OF MASSACHUSETTS)
COUNTY OF WORCESTER) ss.

On this **25th** day of **August 2010**, before me came the above named Vice President and Assistant Vice President of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America, to me personally known to be the individuals and officers described herein, and acknowledged that the seals affixed to the preceding instrument are the corporate seals of The Hanover Insurance Company Massachusetts Bay Insurance Company and Citizens Insurance Company of America, respectively, and that the said corporate seals and their signatures as officers were duly affixed and subscribed to said instrument by the authority and direction of said Corporations.

BARBARA ANN GARLICK
Notary Public
Commonwealth of Massachusetts
My Commission Expires Nov 3, 2011

Barbara A. Garlick
Notary Public

My commission expires on November 3, 2011

I, the undersigned Assistant Vice President of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America, hereby certify that the above and foregoing is a full, true and correct copy of the Original Power of Attorney issued by said Companies, and do hereby further certify that the said Powers of Attorney are still in force and effect.

This Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America.

"RESOLVED, That any and all Powers of Attorney and Certified Copies of such Powers of Attorney and certification in respect thereto, granted and executed by the President or any Vice President in conjunction with any Assistant Vice President of the Company, shall be binding on the Company to the same extent as if all signatures therein were manually affixed, even though one or more of any such signatures thereon may be facsimile." (Adopted October 7, 1981 - The Hanover Insurance Company; Adopted April 14, 1982 Massachusetts Bay Insurance Company; Adopted September 7, 2001 - Citizens Insurance Company of America)

GIVEN under my hand and the seals of said Companies, at Worcester, Massachusetts, this 9 day of September , 20 14

THE HANOVER INSURANCE COMPANY
MASSACHUSETTS BAY INSURANCE COMPANY
CITIZENS INSURANCE COMPANY OF AMERICA

Stephen C. Brault, Assistant Vice President

FINANCIAL STATEMENT

ATTENTION: Insert the "Financial Statement" after this page in with your bid submission.

The Hanover Insurance Company, Bedford, New Hampshire
Financial Statement as of December 31, 2013

ASSETS		2013
Cash in Banks (Including Short-Term investments)		$ 50,894,228
Bonds and Stocks		$ 4,711,827,363
Other Admitted Assets		$ 1,284,421,678
Total Admitted Assets		$ 6,047,143,269

LIABILITIES, CAPITAL AND SURPLUS

Reserve for Unearned Premiums		$ 1,350,588,326
Reserve for Loss and Loss Expense		$ 2,264,133,905
Reserve for Taxes		0
Funds held under reinsurance treaties		$ 5,856,574
Reserve for all other liabilities		$ 596,875,901
Capital Stock - $1.00 par	$ 5,000,000	
Net Surplus	$ 1,824,688,563	
Policyholders' Surplus		$ 1,829,688,563
Total Liabilities, Capital and Surplus		$ 6,047,143,269

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF WORCESTER } s.s.:

Joseph Pedorella, Asst. Treasurer of The Hanover Insurance Company, being duly sworn deposes and says that he is the above described officer of said Company, and certifies that the foregoing statement is a true statement of the condition and affairs of the said Company on December 31, 2013.

Joseph Pedorella
Asst. Treasurer

CERTIFICATE OF SOLVENCY

ATTENTION: Insert the "Certificate of Solvency" after this page in with your bid submission.

CERTIFICATE OF SOLVENCY UNDER SECTION 1111 OF THE NEW YORK INSURANCE LAW

STATE OF NEW YORK

DEPARTMENT OF FINANCIAL SERVICES

It is hereby certified that

THE HANOVER INSURANCE COMPANY

Of Bedford, New Hampshire

a corporation organized under the laws of the State of New Hampshire and duly authorized to transact the business of insurance in this State, is qualified to become surety or guarantor on all bonds, undertakings, recognizances, guaranties and other obligations required or permitted by law; and that the said corporation is possessed of a capital and surplus including gross paid-in and contributed surplus and unassigned funds (surplus) aggregating the sum of $1,829,688,563 (Capital $5,000,000) as is shown by its sworn financial statement for the end of the year as of December 31, 2013, on file in this Department, prior to audit.

The said corporation cannot lawfully expose itself to loss on any one risk or hazard to an amount exceeding 10% of its surplus to policyholders, unless it shall be protected in excess of that amount in the manner provided in Section 4118 of the Insurance Law of this State.

In Witness Whereof, I have hereunto set my hand and affixed the official seal of this Department at the City of Albany, this 10th day of April, 2014

Benjamin M. Lawsky
Superintendent

By Jacqueline Catalfamo

Jacqueline Catalfamo
Special Deputy Superintendent

www.dfs.ny.gov

LANDTEK
THE LANDTEK GROUP, INC.

235 COUNTY LINE ROAD, AMITYVILLE, NY 11701
TEL (631) 691-2381 WWW.LANDTEKGROUP.COM FAX (631) 598-8280

SUBCONTRACTORS

Commercial Instrumentation Services
681 Grand Blvd. Suite #7
Deer park, NY 11729
(631) 243-4300
James Gerardi

Vin Con Electric, Inc.
188 Quality Plaza
Hicksville, NY 11801
(631) 761-8484
Mike

PROPOSAL
To the County of Nassau
2014 GENERAL REQUIREMENTS CONTRACT
FOR VARIOUS CIVIL/SITE RECONSTRUCTION
HIGEWAYS, DRAINAGE, BRIDGES, SITE, PARKING LOTS AND PARK
RELATED SPECIALIZED ITEMS
NASSAU COUNTY, NEW YORK

Contract No. H66302U

TO THE COUNTY OF NASSAU:

Pursuant to and in compliance with your Advertisement for Bids and the Instructions to Bidders relating thereto, the undersigned hereby proposes to furnish all plant, labor, materials, supplies, equipment and other facilities necessary or proper for or incidental to the above Contract, as required by and in strict accordance with the plans and specifications for the amount named in the proposal hereinafter described.

In making this proposal the Bidder hereby declares that the Addenda which has been issued by the County of Nassau and has been received by him, that all provisions thereof have been complied with in preparing his bids.

Name of Bidder: The LandTek Group, Inc.
(Individual, Firm or Corporation, as case may be)

Bidder's Address: [redacted]

Telephone: [redacted] Date: 09/15/2014

FAX Tele: [redacted] E-Mail: Estimatinggroup@landtekgroup.com

NOTE: IF BIDDER IS A FIRM, FILL IN THE FOLLOWING BLANKS:

Name of Partners	Residence of Partners

NOTE: IF BIDDER IS A CORPORATION, FILL IN THE FOLLOWING BLANKS:

Organized under the laws of the State of: New York

Name of President: Michael Ryan/President

President's Domicile: [redacted]

Name of Vice Pres: [redacted]

Vice Pres's Domicile: [redacted]

Corporate Officer: _____ Title: _____

Corporate Officer's Domicile: _____

Corporate Officer: _____ Title: _____

Corporate Officer's Domicile: _____

The Following Paragraphs are Applicable to the Contract

THE BIDDER AFFIRMS AND DECLARES:

1. That the above bidder is of lawful age and the only one interested in this bid; and that no other person, firm or corporation, except those herein named, has any interest in this bid or in the Contract proposed to be entered into.

2. That this bid is made without any understanding, agreement or in connection with any other person, firm or corporation, making a bid for the same work, and is in all respects fair and without collusion or fraud.

3. That said bidder is not in arrears to the County of Nassau upon debt or contract, and is not a defaulter, as surety or otherwise, upon any obligation to the County of Nassau.

4. That no officer nor employee of the County of Nassau, or person whose salary is payable in whole or in part from the County Treasury is, shall be, or become interested directly, or indirectly as a contracting party, partner, stockholder, surety or otherwise, in this bid, or in the performance of the contract, or in the supplies, materials, equipment and work or labor to which it relates, or in any portion of the profits thereof.

5. That he has carefully examined the site of the work and that, from his own investigations, has satisfied himself as to the nature and location of the work, the character, quality and quantity of existing materials, all difficulties likely to be encountered, the kind and extent of equipment, other facilities needed for the performance of the work, the general and local conditions, and all other items which may, in any way, affect the work or its performance.

6. The bidder also declares that he has carefully examined and fully understands all the component parts of this Contract, that he will execute the Contract and will completely perform it in strict accordance with its terms for the following prices.

7. Where the work performed under this Contract involves a trade or occupation licensed in the County of Nassau by the Towns of Hempstead, Oyster Bay or North Hempstead or by the Cities Glen Cove or Long Beach, the contractor shall be required to have such a license.

INFORMATION FOR BIDDERS

I. Rejection of Bids.

A. The Commissioner may recommend a reject of bid if:

1. The Bidder fails to furnish any of the information required by the bid documents; or if
2. The bidder misstates or conceals any material fact in the bid, or in the sworn written statement; or if
3. The bid does not strictly conform to law or the requirements of this contract; or if
4. The bid is conditional; or if
5. A determination that the bidder is not responsible is made in accordance with law; or if
6. The bid, in the opinion of the Commissioner, contains unbalanced bid prices, unless the bidder can show that the prices are not unbalanced for the probably required quantity of such items.

B. Rejection of all bids and waiver of informalities.

The Commissioner, however, reserves the right to recommend to reject all bids whenever he deems it in the best interest of the County, and also the right to waive any informalities in a bid.

II. Unit Price Contracts, Comparison of Bids.

Bids on Unit Price Contracts will be compared on the basis of a total bid price, arrived at by taking the sum of the Approximate Quantities of such item multiplied by the corresponding Unit Price, and including any Lump Sum Bid on individual items, in accordance with the items set forth in the bid proposal.

Bidders are warned that the Approximate Quantities of the various items of work and material is estimated only, and is given solely to be used as a uniform basis for the comparison of bids. The quantities actually required to complete the contract work may be more or less than estimated.

III. Lump Sum Contracts, Comparison of Bids.

Bids on lump Sum Contracts will be compared on the basis of the Lump Sum Price bid adjusted for alternate prices bid, if any.

IV. Apprenticeship Training Program

For all contracts in excess of $500,000 attach here verification letter regarding your firm's having an approved State of New York Apprenticeship Training Program.

ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
1X	5000.00 SY	Clearing and Grubbing For One Dollars Ninety Cents	1	90	9,500	00
1S	10.00 EA	Job Information Sign For Three hundred thirty two Dollars Fifty Cents	332	50	3,325	00
2	250.00 CY	Unclassified Excavation For Seventy one Dollars Twenty five Cents	71	25	17,812	50
3	200.00 CY	Trench, Culvert and Bridge Excavation For Ninety Dollars Twenty five Cents	90	25	18,050	00
4A	100.00 SY	Cement Concrete Breaking (Pavement) For Twenty Three Dollars Seventy Five Cents	23	75	2,375	00
4B	50.00 CY	Cement Concrete Breaking (Structures) For Ninety Five Dollars Zero Cents	95	00	4,750	00

* Force Bid Price

ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written In Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
4CX	50.00 CY	Removal of Cement Concrete For Twenty Three Dollars Seventy Five Cents	23	75	1,187	50
4PX	50.00 LF	Removal of Existing Cement Concrete Pipe For Nineteen Dollars Zero Cents	19	00	950	00
5A	100.00 CY	Embankment in Place For Eight Dollars Fifty Five Cents	8	55	855	00
5B	100.00 CY	Borrow Fill For Thirteen Dollars Thirty Cents	13	30	1,330	00
5C	200.00 CY	Selected Fill For Thirty Three Dollars Twenty Five Cents	33	25	6,650	00
5D	50.00 CY	Selected Granular Fill For Thirty Three Dollars Twenty Five Cents	33	25	1,662	50
6	50.00 CYMI	Trucking For Four Dollars Seventy Five Cents	4	75	237	50

* Force Bid Price

ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
7	1000.00 SY	Preparing Fine Grade For Three Dollars Eighty Cents	3	80	3,800	00
8	200.00 SY	Trimming Shoulders and Slopes For Three Dollars Eighty Cents	3	80	760	00
9	100.00 CY	Topsoil (supplied) For Thirty Three Dollars Twenty Five Cents	33	25	3,325	00
9R	50.00 CY	Topsoil (Rehandled) For Fourteen Dollars Twenty Five Cents	14	25	712	00
10A	100.00 SF	Temporary Sheeting and Bracing For Nine Dollars Fifty Cents	9	50	950	00
10A-1	100.00 SF	Excavation Protection System For Seven Dollars Sixty Cents	7	60	760	00
10B	100.00 SF	Temporary Sheeting and Bracing Ordered Left in Place For Fourteen Dollars Twenty Five Cents	14	25	1,425	00

* Force Bid Price

ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents		
12A-4-12	100.00 LF	12" Reinforced Concrete Pipe, Class IV For Fourteen Dollars Twenty Five Cents	14	25	1,425	00
12A-4-15	100.00 LF	15" Reinforced Concrete Pipe, Class IV For Seventeen Dollars Ten Cents	17	10	1,710 ~~1,170~~	00 00
12A-4-18	100.00 LF	18" Reinforced Concrete Pipe, Class IV Nineteen Ninety Five	19	95	1,995	00
12A-4-24	100.00 LF	24" Reinforced Concrete Pipe, Class IV For Twenty Six Dollars Sixty Cents	26	60	2,660	00
12A-4-30	100.00 LF	30" Reinforced Concrete Pipe, Class IV For Thirty Five Dollars Fifteen Cents	35	15	3,515	00
12A-4-36	100.00 LF	36" Reinforced Concrete Pipe, Class IV For Forty Two Dollars Seventy Cents	42	75	4,275	00
12A-4-42	50.00 LF	42" Reinforced Concrete Pipe, Class IV For Fifty Two Dollars Twenty Five Cents	52	25	2,612	50

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Contract No. H663021

* Force Bid Price

ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents		
12A-4-48	50.00 LF	48" Reinforced Concrete Pipe, Class IV For Fifty Eight (Dollars) Ninety (Cents)	58	90	2,945	00
12B-12	5.00 EA	Reinforced Concrete Pipe End Section- 12" Diameter For Seven Hundred & Twelve (Dollars) Fifty (Cents)	712	50	3,562	00
12B-15	5.00 EA	Reinforced Concrete Pipe End Section-15" Diameter For Eight Hundred Fifty Five (Dollars) Zero (Cents)	855	00	4,275	00
12B-18	5.00 EA	Reinforced Concrete Pipe End Section- 18" Diameter For Nine Hundred Fifty (Dollars) Zero (Cents)	950	00	4,750	00
12B-24	5.00 EA	Reinforced Concrete Pipe End Section- 24" Diameter For One Thousand Forty Five (Dollars) Zero (Cents)	1,045	00	5,225	00
12B-30	5.00 EA	Reinforced Concrete Pipe End Section- 30" Diameter For One Thousand One Hundred Forty (Dollars) Zero (Cents)	1,140	00	5,700	00
12B-36	5.00 EA	36" Reinforced Concrete Pipe End Sections For One Thousand Two Hundred thirty five (Dollars) Zero (Cents)	1,235	00	6,175	00

* Force Bid Price

ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents		
12B-42	5.00 EA	42" Reinforced Concrete Pipe End Sections For One thousand three hundred fifty three (Dollars) Seventy Five (Cents)	1,353	75	6,768	75
12B-48	5.00 EA	48" Reinforced Concrete Pipe End Sections For One thousand four hundred ninety six (Dollars) Twenty five (Cents)	1,496	25	7,481	00
12C-14X23	50.00 LF	14"X23" Reinforced Elliptical Concrete Pipe For Thirty Three (Dollars) Twenty Five (Cents)	33	25	1,662	50
12C-19X30	50.00 LF	19"X30" Reinforced Elliptical Concrete Pipe For Forty Two (Dollars) Seventy Five (Cents)	42	75	2,137	50
12C-22X34	40.00 LF	22"X34" Reinforced Elliptical Concrete Pipe For Forty Seven (Dollars) Fifty (Cents)	47	50	1,900	00
12C-24X38	30.00 LF	24"X38" Reinforced Elliptical Concrete Pipe For Fifty Two (Dollars) Twenty Five (Cents)	52	25	1,567	50

ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
12C-29X45	20.00 LF	29"X45" Reinforced Elliptical Concrete Pipe For Sixty Six (Dollars) Fifty (Cents)	66	50	1,330	00
12D-12	100.00 LF	Perforated Reinforced Concrete Pipe-12" Diameter For Fourteen (Dollars) Twenty Five (Cents)	14	25	1,425	00
12D-15	100.00 LF	Perforated Reinforced Concrete Pipe-15" Diameter For Seventeen (Dollars) Ten (Cents)	17	10	1,710	00
12D-18	100.00 LF	Perforated Reinforced Concrete Pipe-18" Diameter For Nineteen (Dollars) Ninety Five (Cents)	19	95	1,995	00
12D-24	100.00 LF	Perforated Reinforced Concrete Pipe-24" Diameter For Twenty Six (Dollars) Sixty (Cents)	26	60	2,660	00
12D-30	100.00 LF	Perforated Reinforced Concrete Pipe-30" Diameter For Thirty Five (Dollars) Fifteen (Cents)	35	15	3,515	00
12DIP-12	50.00 LF	Ductile Iron Culvert Pipe-12" Diameter For Thirty Six (Dollars) Fifty Eight (Cents)	36	58	1,829	00

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Contract No. H663026

* Force Bid Price

ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
12DIP-14	50.00 LF	Ductile Iron Culvert Pipe-14" Diameter For Thirty Nine (Dollars) Ninety (Cents)	39	90	1995	00
12DIP-16	50.00 LF	Ductile Iron Culvert Pipe-16" Diameter For Forty Seven (Dollars) Fifty (Cents)	47	50	2375	00
12DIP-18	100.00 LF	Ductile Iron Culvert Pipe-18" Diameter For Fifty Two (Dollars) Twenty Five (Cents)	52	25	5225	00
12DIP-24	100.00 LF	Ductile Iron Culvert Pipe-24" Diameter For Fifty Seven (Dollars) Zero (Cents)	57	00	5700	00
12DIP-30	50.00 LF	Ductile Iron Culvert Pipe-30" Diameter For Sixty One (Dollars) Seventy Five (Cents)	61	75	3087	50
12F	50.00 LF	Round Corrugated Metal Pipe (smooth flow) For Twenty Eight (Dollars) Fifty (Cents)	28	50	1425	00
12G	100.00 LF	Relaying Pipe For Seventeen (Dollars) Ten (Cents)	17	10	1710	00
12H	500.00 LF	Cleaning Existing Drainage System For Six (Dollars) Sixty Five (Cents)	6	65	3325	00

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Contract No. H663302U

* Force Bid Price

ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written In Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
12HP	500.00 LF	Cleaning Existing Culverts and Associated Drainage System For Four Dollars Seventy Five Cents	4	75	2,375	00
12P-12	200.00 LF	Smooth Interior Corrugated Polyethylene Drainage Pipe-12" For Four Dollars Seventy Five Cents	4	75	950	00
12P-15	200.00 LF	Smooth Interior Corrugated Polyethylene Drainage Pipe-15" For Six Dollars eighteen Cents	6	18	1,236	00
12P-18	200.00 LF	Smooth Interior Corrugated Polyethylene Drainage Pipe-18" For Eight Dollars Seventy Nine Cents	8	79	1,758	00
12P-24	150.00 LF	Smooth Interior Corrugated Polyethylene Drainage Pipe-24" For Fourteen Dollars Seventy three Cents	14	73	2,209	50
12P-36	100.00 LF	Smooth Interior Corrugated Polyethylene Drainage Pipe-36" For Twenty Three Dollars Seventy five Cents	23	75	2,375	00
12S40-6	200.00 LF	Schedule 40 PolyvinylChloride (PVC) Drain Pipe-6" Diameter For Nineteen Dollars Zero Cents	19	00	3,800	00

* Force Bid Price

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written In Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
12S40-8	200.00 LF	Schedule 40 PolyvinylChloride (PVC) Sanitary Sewer Pipe-8" Diameter For Twenty Three (Dollars) Seventy Five (Cents)	23	75	4,750	00
13A	30.00 CY	Catch Basins For Two hundred sixty one (Dollars) Twenty Five (Cents)	261	25	7,837	00
13B	30.00 CY	Manholes For Three hundred thirty two (Dollars) Fifty (Cents)	332	50	9,975	00
13BX-4	12.00 EA	Treatment Structure, 4' Diameter For Seven Thousand one hundred twenty five (Dollars) Zero (Cents)	7,125	00	85,500	00
13BX-6	10.00 EA	Treatment Structure, 6' Diameter For Eleven thousand four hundred (Dollars) Zero (Cents)	11,400	00	114,000	00
13BX-8	8.00 EA	Treatment Structure, 8' Diameter For Fifteen thousand two hundred (Dollars) Zero (Cents)	15,200	00	121,600	00
13BX-10	8.00 EA	Treatment Structure, 10' Diameter For Two thousand five hundred sixty five (Dollars) Zero (Cents)	2,565	00	20,520	00
13BX-12	4.00 EA	Treatment Structure, 12' Diameter For Five thousand one hundred thirty (Dollars) Zero (Cents)	5,130	00	20,520	00
13BP-4	50.00 LF	Precast Manholes- 4' Diameter For One Hundred eighteen (Dollars) Seventy Five (Cents)	118	75	5,937	00

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Contract No. H5302U

* Force Bid Price

ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
13BP-5	50.00 LF	Precast Manholes- 5' Diameter For One hundred forty two Dollars fifty Cents	142	50	7,125	00
13BP-6	50.00 LF	Precast Manholes- 6' Diameter For One hundred Sixty Six Dollars Twenty five Cents	166	25	8,312	50
13C	5.00 EA	Area Drains For One hundred Eighteen Dollars Seventy five Cents	118	75	593	75
14	15.00 EA	Connections to Existing Drainage Facilities For Eight hundred Thirty One Dollars Twenty-five Cents	831	25	12,468	75
15	50.00 EA	Altering Catch Basins For Three hundred Thirty Two Dollars Fifty Cents	332	50	16,625 10,625	00
15X	50.00 EA	Rehabilitate Catch Basin For Three Hundred Eighty Dollars Zero Cents	380	00	19,000	00
16A	30.00 EA	Altering Brick Manholes (Corbel Top with Frame Head) For One hundred Sixty Six Dollars Twenty five Cents	166	25	4,987	50
16B	20.00 EA	Altering Brick Manholes (Slab Top with Frame Head) For One hundred Ninety Dollars Zero Cents	190	00	3,800	00
16C	20.00 EA	Altering Brick Manholes (Slab Top with Ring Head) For Two hundred Thirty Seven Dollars fifty Cents	237	50	4,750	00

* Force Bid Price

ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
16SS-1	20.00 EA	Change Elevations of Sanitary Sewer Manholes-Minor Adj. For One hundred Ninety (Dollars) Zero (Cents)	190	00	3,800	00
16SS-2	20.00 EA	Change Elevations of Sanitary Sewer Manholes-Major Adj. For Two hundred Thirty Seven (Dollars) Fifty (Cents)	237	50	4,750	00
16SS-3	20.00 EA	Change Elevations of Drain Manholes and Drop Inlets-Minor Adjustment For Two hundred Thirteen (Dollars) Seven Five (Cents)	213	75	4,275	00
16SS-4	20.00 EA	Change Elevations of Drain Manholes and Drop Inlets-Major Adjustment For Two hundred Eighty five (Dollars) Zero (Cents)	285	00	5,700	00
16XMH	10.00 RINGS	Adjusting Manholes- Extensions For Two hundred Thirty Seven (Dollars) fifty (Cents)	237	50	2,375	00
17A	40.00 CY	Class A Concrete For Structures For One Thousand forty five (Dollars) Zero (Cents)	1,045	00	41,800	00
17D	20.00 CY	Class D Concrete For Structures For Eight hundred seven (Dollars) fifty (Cents)	807	50	16,150 ~~8,075~~	00 ~~00~~ FR
17DP	10.00 CY	Class DP Concrete For Structures For Eight hundred seven (Dollars) fifty (Cents)	807	50	8,075	00

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Contract No. H663302U

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NO TEXT ON THIS PAGE

ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
17E	10.00 CY	Class E Concrete For Structures For Nine hundred fifty Dollars zero Cents	950	00	9,500	00
17F	20.00 CY	Class F/ High Early Strength Concrete For Nine hundred fifty Dollars zero Cents	950	00	19,000	00
17H	10.00 CY	Class H Concrete For Structures (Pumped) For Nine hundred fifty Dollars zero Cents	950	00	9,500	00
17M	10.00 CY	Class A Concrete For Structures (Monolithic Bridge Slabs with Integral Wearing Surfaces) For Nine hundred fifty Dollars zero Cents	950	00	9,500	00
19	50.00 CY	Screened Gravel, Loose Measure For Sixty One Dollars seventy five Cents	61	75	3,087	50
20	100.00 CY	Broken Stone, Loose Measure For Sixty Six Dollars Fifty Cents	66	50	6,650	00
21	50.00 CY	Limestone Screenings For Sixty Six Dollars fifty Cents	66	50	3,325	00

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Contract No. H663021

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
22C-2	500.00 TON	Base Course Asphalt Concrete-Type Dense Base For One hundred four (Dollars) fifty (Cents)	104	50	52,250	00
23	50.00 CY	Concrete Foundation For Pavement For Four hundred Seventy five (Dollars) zero (Cents)	475	00	23,750	00
24	100.00 CY	Cement Concrete Pavement For Five hundred Twenty Two (Dollars) Fifty (Cents)	522	50	52,250	00
24V	50.00 CY	Concrete Valley Gutter For Three hundred Eight (Dollars) Seventy five (Cents)	308	75	15,437	50
25	10.00 CY	Cement Concrete Pavement (Bridge Slab Wearing Course) For One Thousand forty five (Dollars) zero (Cents)	1,045	00	10,450	00
26	500.00 LF	Concrete Curb For Twenty one (Dollars) Seventy Five (Cents)	21	85	10,925	00
26CG	500.00 LF	Monolithic Concrete Curb and Gutter For Twenty Three (Dollars) Seventy Five (Cents)	23	75	11,875	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
26CW	200.00 LF	Concrete Curb Wall For Twenty Six (Dollars) Sixty (Cents)	26	60	5,320	00
26F	50.00 LF	Concrete Curb - Type Flush For Nineteen (Dollars) zero (Cents)	19	00	950	00
26PL	50.00 LF	Concrete Curb for Parking Lot For Twenty One (Dollars) Thirty eight (Cents)	21	38	1,069	00
26S	100.00 LF	Concrete Curb - Special For Twenty Three (Dollars) Seventy Five (Cents)	23	75	2,375	00
26SP-C	100.00 LF	Concrete Curb-Type C For Twenty four (Dollars) Seventy (Cents)	24	70	2,470	00
27	3000.00 SF	Cement Concrete Sidewalk For Nine (Dollars) Fifty (Cents)	9	50	28,500	00
27DW	500.00 SF	Dectectable Warning Surface For Nineteen (Dollars) Zero (Cents)	19	00	9,500	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
27M	200.00 SF	Concrete Mowing Strip-16" For _____ Dollars _____ Cents				
27MS	200.00 SF	Concrete Mowing Strip-16" to 36" Wide For _____ Dollars _____ Cents				
27SP	50.00 SF	Cement Concrete Pavement- Structures Parks For _____ Dollars _____ Cents				
28	500.00 SF	Cement Concrete Driveways and Driveway Aprons For _____ Dollars _____ Cents				
29	500.00 SF	Driveway Restoration For _____ Dollars _____ Cents				
30	200.00 SY	Metal Reinforcement For Concrete Pavement For _____ Dollars _____ Cents				
31	500.00 LF	Transverse Joint Supports For _____ Dollars _____ Cents				

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
27M	200.00 LF	Concrete Mowing Strip-16" For Fourteen (Dollars) Twenty Five (Cents)	14	25	2,850	00
27MS	200.00 SF	Concrete Mowing Strip-16" to 36" Wide For Eleven (Dollars) forty (Cents)	11	40	2,280	00
27SP	50.00 SF	Cement Concrete Pavement- Structures Parks For Nineteen (Dollars) Zero (Cents)	19	00	950	00
28	500.00 SF	Cement Concrete Driveways and Driveway Aprons For Eleven (Dollars) Fifty (Cents)	11	50	5,700	00
29	500.00 SF	Driveway Restoration For Four (Dollars) Seventy five (Cents)	4	75	2,375	00
30	200.00 SY	Metal Reinforcement For Concrete Pavement For Seven (Dollars) Sixty (Cents)	7	60	1,520	00
31	500.00 LF	Transverse Joint Supports For Two (Dollars) Eighty five (Cents)	2	85	1,425	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
32A	200.00 EA	Longitudinal Joint Ties (Pavement) For Five Dollars Seventy Cents	5	70	1,140	00
32B	50.00 EA	Longitudinal Joint Ties (Curbing) For Five Dollars Seventy Cents	5	70	285	00
32X	500.00 EA	Joint Ties (Grout Type) For Three Dollars Eighty Cents	3	80	1,900	00
32X-1	500.00 EA	Load Transfer Device For Cement Concrete Pavement Repairs For Six Dollars Sixty five Cents	6	65	3,325	00
33	1000.00 LB	Bar Reinforcement for Structures For Four Dollars Seventy Five Cents	4	75	4,750	00
33X	400.00 LB	Epoxy Coated Bar Reinforcement for Structures For Four Dollars Ninety Nine Cents	4	99	1,996	00
34	4000.00 LB	Miscellaneous Metals For Eight Dollars Fifty five Cents	8	55	34,200	00
35	100.00 LF	Resetting Guide Railing For Nine Dollars Fifty Cents	9	50	950	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
35T	100.00 LF	Timber Guide Rail For Forty Two (Dollars) Seventy five (Cents)	42	75	4,275	00
36C	300.00 TON	Asphalt Concrete T & L Course-Type1A (Top & Binder) For One hundred four (Dollars) Fifty (Cents)	104	50	31,350	00
36D	1000.00 TON	Asphalt Concrete Top & Binder- Type 1A For One hundred four (Dollars) Fifty (Cents)	104	50	104,500	00
36T	100.00 TON	Temporary Asphalt For Eighty (Dollars) Seventy five (Cents)	80	75	8,075	00
37	500.00 SF	Brick Pavers on Bituminous Setting Bed For Nineteen (Dollars) Ninety five (Cents)	19	95	9,975	00
37C	500.00 SF	Brick Pavers on Cement Concrete Setting Bed For Twenty One (Dollars) Eighty five (Cents)	21	85	10,925	00
39-4	100.00 SF	Paving Stones On Aggregate Base- 4" Thick For Twelve (Dollars) Thirty Five (Cents)	12	35	1,235	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
39-8	100.00 SF	Paving Stones On Aggregate Base- 8" Thick For Thirteen (Dollars) Thirty (Cents)	13	30	1,330	00
40-4	100.00 SF	New Stone Block Pavement on Aggregate Base-4" Thick For Twenty Three (Dollars) Seventy five (Cents)	23	75	2,375	00
40-8	100.00 SF	New Stone Block Pavement on Aggregate Base-8" Thick For Twenty Four (Dollars) Seventy (Cents)	24	70	2,470	00
40R	200.00 SF	Reset Existing StoneBlock Pavement For Twelve (Dollars) Thirty Five (Cents)	12	35	2,470	00
40RP	40.00 EA	Relocating Traffic Signs For Twelve (Dollars) Thirty Five (Cents)	12	35	494	00
42-1	50.00 LF	Concrete Median Barrier For One hundred Twenty eight (Dollars) Twenty-five (Cents)	128	25	6,412	50
42-2	5.00 EA	Concrete Median Barrier End Section For Four hundred Seventy Five (Dollars) Zero (Cents)	475	00	2,375	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
42-3	50.00. LF	Half Section Concrete Barrier For One hundred Twenty Eight (Dollars) Twenty Five (Cents)	128	25	6,412	50
42-4	5.00 EA	Half Section Concrete Barrier End Section For Four hundred Seventy Five (Dollars) Zero (Cents)	475	00	2,375	00
57	100.00 LF	Modify Existing Roof Drains For Thirty Three (Dollars) Twenty Five (Cents)	33	25	3,325	00
58A	1000.00 LF	Saw Cutting Existing Non-Roadway Asphalt For Two (Dollars) Eight Five (Cents)	2	85	2,850	00
58RPC	1000.00 LF	Saw Cutting Existing Roadway Pavement & Concrete For Three (Dollars) Eighty (Cents)	3	80	3,800	00
59	10.00 EA	Alter Water Service Boxes For One hundred Forty Two (Dollars) Fifty (Cents)	142	50	1,425	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
60	10.00 EA	Alter Water Service Connections For One hundred Ninety (Dollars) Zero (Cents)	190	00	1,900	00
60A	10.00 EA	Alter Water Service Box Elevations For Two hundred Thirteen (Dollars) Seventy Five (Cents)	213	75	2,137	50
60B	10.00 EA	Relocate Curb Cock & Water Service Connections For Two hundred Sixty One (Dollars) Twenty Five (Cents)	261	25	2,612	50
61	10.00 EA	Altering Water Meter Pits For One hundred Ninety (Dollars) Zero (Cents)	190	00	1,900	00
61S	5.00 LF	Relocate Existing Water Mains-Complete For Two hundred Eighty Five (Dollars) Zero (Cents)	285	00	1,425	00
62	5.00 EA	Relocate Buried Electric Service Connection For One hundred eighteen (Dollars) Seventy Five (Cents)	118	75	593	75
63	50.00 LF	Alter Sanitary Sewer House Service Connections For Forty Two (Dollars) Seventy Five (Cents)	42	75	2,137	50
63A	5.00 EA	Adjust Sanitary Sewer Cleanouts For One hundred Ninety (Dollars) Zero (Cents)	190	00	950	00
63SS	20.00 LF	Extension of Sanitary Sewer House Service Connections For Forty Two (Dollars) Seventy Five (Cents)	42	75	855	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
63SS-3	20.00 LF	Alter Existing Sanitary Sewer Service Connection Under Widened Road Areas For Sixty One (Dollars) Seventy Five (Cents)	61	75	1,235	00
64	100.00 LF	Reset Existing Fence For Twenty Three (Dollars) Seventy Five (Cents)	23	75	2,375	00
65A	50.00 LF	Transplanting Existing Hedge For Twenty Three (Dollars) Seventy Five (Cents)	23	75	1,187	50
65B	10.00 EA	Transplanting Existing Tree and Shrubs For One hundred forty Two (Dollars) Fifty (Cents)	142	50	1,425	00
66A	5.00 CY	Reconstruct Existing Masonry Steps For Three hundred Thirty Two (Dollars) Fifty (Cents)	332	50	1,662	50
66B	40.00 BF	Reconstruct Existing Timber Steps For Fourteen (Dollars) Twenty five (Cents)	14	25	570	00
79UP	200.00 SF	Unit Pavers For Twelve (Dollars) Thirty Five (Cents)	12	35	2,470	00

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Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
95	100.00 LF	Metal Protection For Curbs For Twenty Three (Dollars) Seventy Five (Cents)	23	75	2,375	00
96	50.00 CY	Dry Rip-Rap For One hundred fourteen (Dollars) Zero (Cents)	114	00	5,700	00
97	20.00 CY	Grouted Rip-Rap For Two hundred Eighty Five (Dollars) Zero (Cents)	285	00	5,700	00
99-8	150.00 LF	Precast Concrete Leaching Basin- 8' Diameter For Two hundred Seventy Seventy Five (Dollars) (Cents)	270	75	40,612	50
99-10	150.00 LF	Precast Concrete Leaching Basin-10' Diameter For Three hundred Thirty Two Fifty (Dollars) (Cents)	332	50	49,875	00
100	150.00 LF	Precast Concrete Diffusion Well-10' Diameter For Three hundred Sixty Five Seventy Five (Dollars) (Cents)	365	75	54,862	50
102*	100.00 DAYS	Work Zone Traffic Control * ~~Five hundred Seventy Zero~~ (HR) For Six Hundred Dollars and No Cents (Dollars) (Cents)	600 ~~570~~	00 ~~00~~ (HR)	60,000 ~~57,000~~	00 ~~00~~ (HR)

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
102D	50.00 DAYS	Flashing Arrow Board For Eight (Dollars) Seventy five (Cents)	80	75	4,087	50
102PVMS	50.00 DAYS	Portable Variable Message Sign For Two hundred Sixty One (Dollars) Twenty Five (Cents)	261	25	13,062	50
103	5.00 EACH	Ballfield Players Bench System For Four hundred Seventy Five (Dollars) Zero (Cents)	475	00	2,375	00
104PA-4X	500.00 LF	Polyolefin Coated Chain Link Fencing 4' high (TOP & BOTTOM TENSION WIRE) For Eight (Dollars) Fifty Five (Cents)	8	55	4,275	00
104PA-6X	1000.00 LF	Polyolefin Coated Chain Link Fencing 6' high (TOP & BOTTOM TENSION WIRE) For Nine (Dollars) Fifty (Cents)	9	50	9,500	00
104PA-8X	500.00 LF	Polyolefin Coated Chain Link Fencing 8' high (TOP & BOTTOM TENSION WIRE) For Eleven (Dollars) forty (Cents)	11	40	5,700	00
104PA-10X	500.00 LF	Polyolefin Coated Chain Link Fencing 10' high (TOP & BOTTOM TENSION WIRE) For Thirteen (Dollars) Thirty (Cents)	13	30	6,650	00
104PA-12X	500.00 LF	Polyolefin Coated Chain Link Fencing 12' high (TOP & BOTTOM TENSION WIRE) For Fourteen (Dollars) Twenty Five (Cents)	14	25	7,125	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
104PB-4X	500.00 LF	Polyolefin Coated Chain Link Fencing 4' high (TOP RAIL & BOTTOM TENSION WIRE) For Twenty Three (Dollars) Seventy Five (Cents)	23	75	11875	00
104PB-6X	1000.00 LF	Polyolefin Coated Chain Link Fencing 6' high (TOP RAIL & BOTTOM TENSION WIRE) For Twenty Four (Dollars) Seventy (Cents)	24	70	24700	00
104PB-8X	500.00 LF	Polyolefin Coated Chain Link Fencing 8' high (TOP RAIL & BOTTOM TENSION WIRE) For Twenty Eight (Dollars) Fifty (Cents)	28	50	14250	00
104PB-10X	500.00 LF	Polyolefin Coated Chain Link Fencing 10' high (TOP RAIL & BOTTOM TENSION WIRE) For Thirty Three (Dollars) Twenty Five (Cents)	33	25	16625	00
104PB-12X	500.00 LF	Polyolefin Coated Chain Link Fencing 12' high (TOP RAIL & BOTTOM TENSION WIRE) For Thirty Eight (Dollars) Zero (Cents)	38	00	19000	00
104PC-4X	500.00 LF	Polyolefin Coated Chain Link Fencing 4' high (TOP & BOTTOM RAILS) For Thirty Three (Dollars) Twenty Five (Cents)	33	25	16625	00
104PC-4-1X	500.00 LF	Polyolefin Coated Chain Link Fencing 4' high 1"mesh (TOP & BOTTOM RAILS) For Thirty Four (Dollars) Twenty (Cents)	34	20	~~51300~~	~~00~~ (HE)

17,100.00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
104PC-6X	1500.00 LF	Polyolefin Coated Chain Link Fencing 6' high (TOP & BOTTOM RAILS) For Thirty Four (Dollars) Twenty (Cents)	34 ~~38~~ (HE)	20 ~~00~~	51,300 ~~19000~~	00 ~~00~~ (HE)
104PC-8X	500.00 LF	Polyolefin Coated Chain Link Fencing 8' high (TOP & BOTTOM RAILS) For Thirty Eight (Dollars) Zero (Cents)	38 ~~52~~ (HE)	00 ~~25~~	19000 ~~26125~~	00 ~~00~~ (HE)
104PC-10X	500.00 LF	Polyolefin Coated Chain Link Fencing 10' high (TOP & BOTTOM RAILS) For Fifty Two (Dollars) Twenty Five (Cents)	52 ~~57~~	25 ~~00~~	26125	00
104PC-12X	500.00 LF	Polyolefin Coated Chain Link Fencing 12' high (TOP & BOTTOM RAILS) For Fifty Seven (Dollars) Zero (Cents)	57	00	28500	00
104PD-6X	200.00 LF	Polyolefin Coated Chain Link Fencing 6' high w/conc cub For Fifty Two (Dollars) Twenty Five (Cents)	52	25	10450	00
104R-4	100.00 LF	Renovate 4' Chain Link Fence For Five (Dollars) Seventy (Cents)	5	70	570	00
104R-4-1	100.00 LF	Renovate 4' Chain Link Fence- 1" Mesh For Six (Dollars) Sixty Five (Cents)	6	65	665	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
104R-6	200.00 LF	Renovate 6' Chain Link Fence For Seven Dollars Sixty Cents	7	60	1520	00
104R-8	100.00 LF	Renovate 8' Chain Link Fence For Eight Dollars Fifty Five Cents	8	55	855	00
104R-10	100.00 LF	Renovate 10' Chain Link Fence For Nine Dollars Fifty Cents	9	50	950	00
104R-12	100.00 LF	Renovate 12' Chain Link Fence For Eleven Dollars Forty Cents	11	40	1140	00
104R-B	500.00 SF	Renovate Chain Link Fence Backstops For Eight Dollars Fifty Five Cents	8	55	4275	00
104RR-4	100.00 LF	Remove and Replace 4' High Chain Link Fence Posts For Three Dollars Eighty Cents	3	80	380	00
104RR-6	100.00 LF	Remove and Replace 6' High Chain Link Fence Posts For Three Dollars Eighty Cents	3	80	380	00

* Force Bid Price

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
104RR-8	200.00 LF	Remove and Replace 8' High Chain Link Fence Posts For _____ Dollars _____ Cents	3	80	760	00
104RR-10	100.00 LF	Remove and Replace 10' High Chain Link Fence Posts For _____ Dollars _____ Cents	3	80	380	00
104RR-12	100.00 LF	Remove and Replace 12' High Chain Link Fence Posts For _____ Dollars _____ Cents	3	80	380	00
104RR-R	100.00 LF	Remove and Replace Chain Link Fence Rails For _____ Dollars _____ Cents	19	00	1900	00
104VCA-4	500.00 LF	Vinyl-Clad Chain Link Fencing-4' High (TOP & BOTTOM TENSION WIRE)	7	60	3800	00
104VCA-6	1000.00 LF	Vinyl-Clad Chain Link Fencing-6' High (TOP & BOTTOM TENSION WIRE) For _____ Dollars _____ Cents	8	55	8550	00
104VCA-8	500.00 LF	Vinyl-Clad Chain Link Fencing-8' High (TOP & BOTTOM TENSION WIRE) For _____ Dollars _____ Cents	9	50	4750	00
104VCA-10	500.00 LF	Vinyl-Clad Chain Link Fencing-10' High (TOP & BOTTOM TENSION WIRE) For _____ Dollars _____ Cents	11	40	5700	00
104VCA-12	500.00 LF	Vinyl-Clad Chain Link Fencing-12' High (TOP & BOTTOM TENSION WIRE) For _____ Dollars _____ Cents	13	30	~~13300~~ 6650	~~00~~ 00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
104VCB-4	500.00 LF	Vinyl-Clad Chain Link Fencing-4' High (TOP RAIL & BOTTOM TENSION WIRE) For Twelve (Dollars) Thirty Five (Cents)	12	35	6175	00
104VCB-6	1000.00 LF	Vinyl-Clad Chain Link Fencing-6' High (TOP RAIL & BOTTOM TENSION WIRE) For Thirteen (Dollars) Thirty (Cents)	13	30	13300	00
104VCB-8	500.00 LF	Vinyl-Clad Chain Link Fencing-8' High (TOP RAIL & BOTTOM TENSION WIRE) For Fourteen (Dollars) Twenty Five (Cents)	14	25	7125	00
104VCB-10	500.00 LF	Vinyl-Clad Chain Link Fencing-10' High (TOP RAIL & BOTTOM TENSION WIRE) For Sixteen (Dollars) Fifteen (Cents)	16	15	8075	00
104VCB-12	500.00 LF	Vinyl-Clad Chain Link Fencing-12' High (TOP RAIL & BOTTOM TENSION WIRE) For Eighteen (Dollars) Five (Cents)	18	05	9025	00
104VCC-4	500.00 LF	Vinyl-Clad Chain Link Fencing-4' High (TOP & BOTTOM RAILS) For Twenty (Dollars) Ninety (Cents)	20	90	10450	00
104VCC-4-1	500.00 LF	Vinyl-Clad Chain Link Fencing-4' High 1.0"MESH (TOP & BOTTOM RAILS) For Nineteen (Dollars) Ninety Five (Cents)	19	95	9975	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid		Amount Bid	
			Dollars	Cents	Dollars	Cents
104VCC-6	1500.00 LF	Vinyl-Clad Chain Link Fencing-6' High (TOP & BOTTOM RAILS) For Nineteen Dollars Ninety Five Cents	19	95	29925	00
104VCC-8	500.00 LF	Vinyl-Clad Chain Link Fencing-8' High (TOP & BOTTOM RAILS) For Twenty Dollars Ninety Cents	20	90	10450	00
104VCC-10	500.00 LF	Vinyl-Clad Chain Link Fencing-10' High (TOP & BOTTOM RAILS) For Twenty Two Dollars Eighty Cents	22	80	11400	00
104VCC-12	500.00 LF	Vinyl-Clad Chain Link Fencing-12' High (TOP & BOTTOM RAILS) For Twenty Four Dollars Seventy Cents	24	70	12350	00
97 104VCD-6 612	500.00 LF	Vinyl-Clad Chain Link Fencing With Concrete Curb For Thirty Six Dollars Ten Cents	36	10	18050	00
104VCE-BB	700.00 SF	Vinyl-Clad Backstop- Baseball For Nineteen Dollars Zero Cents	19	00	13300	00

Contract No. H66302U

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NO TEXT ON THIS PAGE

ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
104VCE-SB	700.00 SF	Vinyl-Clad Backstop- Softball/ Little league For Seventeen (Dollars) Ten (Cents)	17	10	11970	00
104XSB	700.00 SF	Removal Existing Backstops For One (Dollars) Ninety (Cents)	1	90	1330	00
104XR	1000.00 LF	Middle Rail, Brace Rail & Bottom Rail For Nine (Dollars) Fifty (Cents)	9	50	9500	00
104XSF	5000.00 SF	Removal Existing Fence For Zero (Dollars) Seventy One (Cents)	0	71	3550	00
105-2	100.00 LF	Two (2) Rail Split Rail Fence For Six (Dollars) Sixty Five (Cents)	6	65	665	00
105-3	100.00 LF	Three (3) Rail Split Rail Fence For Eight (Dollars) Fifty Five (Cents)	8	55	855	00
105SFS-6	200.00 LF	6' Stockade Fence For Twenty Three (Dollars) Seventy Five (Cents)	23	75	4750	00
105SFS-8	200.00 LF	8' Stockade Fence For Twenty Five (Dollars) Sixty Five (Cents)	25	65	5130	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
106P	1000.00 LF	Post Painting For Zero (Dollars) Ninety Five (Cents)	0	95	950	00
106P-DG	500.00 SF	Polyolefin Coated Chain Link Double Gate For Twenty Three (Dollars) Seventy Five (Cents)	23	75	11875	00
106P-SG	500.00 SF	Polyolefin Coated Chain Link Single Gate For Thirty Six (Dollars) Ten (Cents)	36	10	18050	00
106SVBG	100.00 LF	Self-Swing Vehicle Barrier Gates For Twenty Eight (Dollars) Fifty (Cents)	28	50	2850	00
106VC-CG	500.00 SF	16'-22' Wide Vinyl Clad Chain Link Cantilever Slide Gates(6'to8'High) For Thirty Three (Dollars) Twenty Five (Cents)	33	25	16625	00
106VC-DG	500.00 SF	Vinyl Clad Chain Link Double Gates For Seventeen (Dollars) Ten (Cents)	17	10	8550	00
106VC-SG	500.00 SF	Vinyl Clad Chain Link Single Gates For Twenty Eight (Dollars) Fifty (Cents)	28	50	14250	00
107	3000.00 LF	Cleaning, Filling & Sealing Existing Joints&Cracks in ASPH. PAVE. For Four (Dollars) Seventy Five (Cents)	4	75	14250	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
110	200.00 CF	Masonry Pipe Plugs For Nine (Dollars) Fifty (Cents)	9	50	1900	00
111	500.00 SY	Removal and Replacement of Pavements For One Hundred Twenty Eight (Dollars) Twenty five (Cents)	128	25	64125	00
111M	100.00 SY	Cold Planing Removal and Replacement of pavement For Eighty (Dollars) Seventy Five (Cents)	80	75	8075	00
111P	100.00 LF	Removal and Replacement of Existing Pathways For Thirty Eight (Dollars) Zero (Cents)	38	00	3800	00
112	100.00 EA	Adjusting Manholes For One Hundred Ninety (Dollars) Zero (Cents)	190	00	19000	00
113	50.00 EA	Adjustment of Surface Inlets For Three Hundred Eight (Dollars) Seventy Five (Cents)	308	75	15437	50
114	50.00 EA	Adjustment of Water Valve Box Elevations For Ninety Five (Dollars) Zero (Cents)	95	00	4750	00
114TS	20.00 EA	Adjustment of Traffic Signal Pullboxes For Two Hundred Thirteen (Dollars) Seventy Five (Cents)	213	75	~~11875~~ 4,275	~~00~~ 00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
115	500.00 LF	Butt Joints For Twenty Three (Dollars) Seventy Five (Cents)	23	75	11875	00
116A	5000.00 SY	Profiling and Removal of Asphalt Pavement For Seven (Dollars) Sixty (Cents)	7	60	38000	00
116C	1000.00 SY	Profiling and Removal of Concrete Pavement For Nine (Dollars) Fifty (Cents)	9	50	9500	00
117	100.00 LF	Temporary Fence-4' High For Four (Dollars) Seventy Five (Cents)	4	75	475	00
117T-6	500.00 LF	Temporary Fence-6' High For Five (Dollars) Seventy (Cents)	5	70	2850	00
117T-8	100.00 LF	Temporary Fence-8' High For Seven (Dollars) Sixty (Cents)	7	60	760	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
117TP-6	100.00 LF	Temporary Fence With Privacy Screening-6' High For Nine (Dollars) Fifty (Cents)	9	50	950	00
117TP-8	100.00 LF	Temporary Fence With Privacy Screening-8' High For Twelve (Dollars) Thirty Five (Cents)	12	35	1235	00
118	100.00 CY	Gabion and Revet Mattresses For Two Hundred Thirteen (Dollars) Seventy Five (Cents)	213	75	21375	00
119	10.00 CY	Rock Excavation For Ninety Five (Dollars) Zero (Cents)	95	00	950	00
120	10.00 EA	Relocation and Reattachment of Existing Lighting Units For One Hundred Ninety (Dollars) Zero (Cents)	190	00	1900	00
121	200.00 CY	Dry Bound Base Course For Fifty Two (Dollars) Twenty Five (Cents)	52	25	10450	00
122	20.00 EA	Test Holes For Four Hundred Seventy Five (Dollars) Zero (Cents)	475	00	9500	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
125	10.00 OZ	Chemical Admixture for Concrete For Four (Dollars) Seventy Five (Cents)	4	75	47	50
126A	100.00 LF	New Stone Block Curb For Twenty Six (Dollars) Sixty (Cents)	26	60	2660	00
126B	100.00 LF	Reset Existing Stone Block Curb For Seventeen (Dollars) Ten (Cents)	17	10	1710	00
127	5.00 EA	Relocating Existing Hydrants For Two Hundred Thirteen (Dollars) Seventy Five (Cents)	213	75	1068	75
128	100.00 SY	Furnishing and Applying Soil Sterilant For Zero (Dollars) Twenty Four (Cents)	0	24	24	00
129	100.00 CY	Cement Concrete For Pavement Repairs (Calcium Chloride) For Six Hundred Seventeen (Dollars) Fifty (Cents)	617	50	61750	00
132	50.00 EA	Plowable Raised Reflectorized Pavement Markers For Ninety Five (Dollars) Zero (Cents)	95	00	4750	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
133	500.00 LF	Clean & Fill Joints And Cracks For Three Dollars Eighty Cents	3	80	1900	00
133A	500.00 LF	Cleaning and Resealing of long. Jts in Portl. Cem. Conc. Pavt. For Two Dollars Eighty Five Cents	2	85	1425	00
133B	100.00 LF	Sealing of Transverse Joints In Cement Concrete Pavement For Four Dollars Seventy Five Cents	4	75	475	00
134	100.00 LF	Sawing and Sealing Bituminous Concrete Overlays For Four Dollars Seventy Five Cents (HE)	~~641~~ 4	~~25~~ 75	~~19237~~ 475	~~50~~ 00 (HE)
136S	30.00 DAY	Survey Stakeout (USE PER DAY) For Six Hundred Forty One Dollars Twenty Five Cents	641	25	19237	50
137	500.00 LF	Removal Existing Traffic Markings For Four Dollars Seventy Five Cents	4	75	2375	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
138	100.00 SY	Asphalt Joint Repairs For Seventy One (Dollars) Twenty Five (Cents)	71	25	7125	00
139	100.00 SY	Saw Cutting Grooves in Existing Asphalt Pavement For Eleven (Dollars) Forty (Cents)	11	40	1140	00
140	100.00 LF	Temporary Pavement Delineation For Two (Dollars) Eighty Five (Cents)	2	85	285	00
141	500.00 LF	Silt Fence For Four (Dollars) Seventy Five (Cents)	4	75	2375	00
141A	100.00 LF	Hay Bales/ Straw Bales For Seven (Dollars) Thirteen (Cents)	7	13	713	00
141B	50.00 EA	Silt Protection for Surface Inlet Drainage Structures For Seventy One (Dollars) Twenty Five (Cents)	71	25	3562	50
141C	50.00 EA	Silt Protection for Curb Inlet Drainage Structures For Seventy One (Dollars) Twenty Five (Cents)	71	25	3562	50
150	200.00 LF	Box Beam Guide Railing For Twenty Eight (Dollars) Fifty (Cents)	28	50	5700	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
151	100.00 LF	Box Beam Median Barrier For Thirty (Dollars) Forty (Cents)	30	40	3040	00
152	5.00 EA	Box Beam Guide Rail End Assembly For Two Hundred Thirty Seven Fifty (Dollars / Cents)	237	50	1187	50
153A	2.00 EA	Box Beam Median Barrier End Assembly- Type A For Two Hundred Thirty Seven Fifty (Dollars / Cents)	237	50	475	00
153B	2.00 EA	Box Beam Median Barrier End Assembly- Type B For Two Hundred Thirty Seven Fifty (Dollars / Cents)	237	50	475	00
158A	1500.00 SF	Geotextile Cloth For Zero (Dollars) Nineteen (Cents)	0	19	285	00
158B	500.00 SY	Soil Stabilization Fabric For One (Dollars) Sixty Six (Cents)	1	66	830	00
172	500.00 SY	Court Preparation for Color Coating For Three (Dollars) Eighty (Cents)	3	80	1900	00
173	100.00 SY	Color Coating For Ten (Dollars) Forty Five (Cents)	10	45	1045	00
174	500.00 LF	Painted Lines For Zero (Dollars) Seventy One (Cents)	0	71	355	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
175	1000.00 SY	Stabilized Mixed-In-Place Recycled Base Course For Six Dollars Sixty Five Cents	6	65	6650	00
175AE (2GAL/SY)	2000.00 GAL	Asphalt Emulsion For Three Dollars Thirty Three Cents	3	33	6660	00
176	1000.00 SY	Milled-In-Place Recycled Base Course For Six Dollars Eighteen Cents	6	18	6180	00
178W	100.00 LF	Pavement Markings, Painting & Striping (White) For One Dollars Ninety Cents	1	90	190	00
178Y	100.00 LF	Pavement Markings, Painting & Striping (Yellow) For One Dollars Ninety Cents	1	90	190	00
179A	200.00 LF	Steel Edging For Nine Dollars Fifty Cents	9	50	1900	00
180	25.00 LF	Trench Drains For Eighty Dollars Seventy Five Cents	80	75	2018	75
185A	50.00 LF	Relocate Residential Sprinkler System For Nine Dollars Fifty Cents	9	50	475	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
185N	50.00 LF	New Sprinkler System For Nineteen (Dollars) Zero (Cents)	19	00	950	00
200	50.00 LF	Heavy Post, Plastic and Synthetic Blocked Out Galvanized Corrugated Steel Beam Guide Railing For Thirty Eight (Dollars) Zero (Cents)	38	00	1900	00
201	10.00 LF	Heavy Post, Plastic and Synthetic Blocked Out Galvanized Corrugated Steel Beam Median Barrier For Three Hundred Thirty Two (Dollars) Fifty (Cents)	332	50	3325	00
202	5.00 EA	Anchorage Units for Heavy Post Blocked Corrugated Beam Guide Railing(DWY) For Three Hundred Thirty Two (Dollars) Fifty (Cents)	332	50	1662	50
203	5.00 EA	Anchorage Units for Heavy Post Blocked Corrugated Beam Guide Railing (HWY) For Three Hundred Thirty Two (Dollars) Fifty (Cents)	332	50	1662	50
204	1.00 EA	Anchorage Units for Heavy Post Blocked-Out Corrugated Beam Median Barrier For Three Hundred Thirty Two (Dollars) Fifty (Cents)	332	50	332	50
205	1.00 EA	Heavy Post Blocked-Out Corrugated Beam Guide Railing Connection To 2 Rail Steel Bridge Railing For Three Hundred Thirty Two (Dollars) Fifty (Cents)	332	50	332	50

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
206	10.00 LF	Heavy Post Blocked-Out Corr. Beam Guide Railing Conn.To 3 Rail Tubular Steel Bridge Railing For Three Hundred Thirty Two (Dollars) Fifty (Cents)	332	50	3325	00
207	2.00 EA	Heavy Post Blocked-Out Corrugated Beam Guide Railing Connection To Walls (Trailing Ends) For Three Hundred Thirty Two (Dollars) Fifty (Cents)	332	50	665	00
208	50.00 LF	Reconstruction of Heavy Post Blocked-Out Corrugated Beam Guide Railing For Seventeen (Dollars) Ten (Cents)	17	10	855	00
209	50.00 LF	Reconstruction of Median Barrier For Eighteen (Dollars) Five (Cents)	18	05	902	50
210E	10.00 EA	Energy Absorbing Safety End Treatment For Two Hundred Eighty Five (Dollars) Zero (Cents)	285	00	2850	00
216	200.00 LF	Removal of Existing Guide Rail For Seven (Dollars) Sixty (Cents)	7	60	1520	00
220	100.00 LF	Corrugated Beam Guide Railing For Thirty (Dollars) Forty (Cents)	30	40	3040	00

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Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
221	5.00 EA	Anchorage Units for Corrugated Beam Guide Railing For Two Hundred Sixty One (Dollars) Twenty Five (Cents)	261	25	1306	25
222	5.00 EA	Anchorage Units for Corrugated Beam Guide Railing (Driveway) For Two Hundred Sixty One (Dollars) Twenty Five (Cents)	261	25	1306	25
360	10.00 EA	Pruning Existing Deciduous Trees For Four Hundred Seventy Five (Dollars) Zero (Cents)	475	00	4750	00
361A	10.00 EA	Planting Trees and Shrubs - Deciduous Major For Four Hundred Seventy Five (Dollars) Zero (Cents)	475	00	4750	00
361B	10.00 EA	Planting Trees and Shrubs - Deciduous Minor For Four Hundred Seventy Five (Dollars) Zero (Cents)	475	00	4750	00
361C	10.00 EA	Planting Trees and Shrubs - Deciduous Shrubs For Seventy One (Dollars) Twenty Five (Cents)	71	25	712	50
361D	10.00 EA	Planting Trees and Shrubs - Evergreen Trees For Three Hundred Fifty Six (Dollars) Twenty Five (Cents)	356	25	3562	50

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
361E	10.00 EA	Planting Trees and Shrubs - Evergreen Shrubs Upright For Two Hundred Thirty Seven (Dollars) Fifty (Cents)	237	50	2375	00
361F	10.00 EA	Planting Trees and Shrubs - Evergreen Shrubs Spreading For Seventy One (Dollars) Twenty Five (Cents)	71	25	712	50
362	10.00 CY	Triple Shredded Mulch For Forty Seven (Dollars) Fifty (Cents)	47	50	475	00
363	1000.00 SY	Grass Seeding For Five (Dollars) Seventy (Cents)	5	70	5700	00
364-A	10.00 EA	TREE PRUNING -A- (<6" Caliper) For One Hundred Forty Two (Dollars) Fifty (Cents)	142	50	1425	00
364-B	10.00 EA	TREE PRUNING -B- (6" - <12" Caliper) For Two Hundred Eighty Five (Dollars) Zero (Cents)	285	00	2850	00

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Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
364-C	10.00 EA	TREE PRUNING -C- (12" - <24" Caliper) For Three Hundred Fifty Six (Dollars) Twenty Five (Cents)	356	25	3562	50
364-D	10.00 EA	TREE PRUNING -D- (24" - <36" Caliper) For Four Hundred Seventy Five (Dollars) Zero (Cents)	475	00	4750	00
364-E	10.00 EA	TREE PRUNING -E- (36" - <48" Caliper) For Six Hundred Forty One (Dollars) Twenty Five (Cents)	641	25	6412	50
365	500.00 SF	Sodding For One (Dollars) Forty Three (Cents)	1	43	715	00
367	100.00 SY	Hydro Seeding For Four (Dollars) Seventy Five (Cents)	4	75	475	00
368	250.00 SY	Topsoil and Grass Seed For Nine (Dollars) Fifty (Cents)	9	50	2375	00
371	10.00 PER BALE	Peat Moss For Thirty Three (Dollars) Twenty Five (Cents)	33	25	332	50
372A	30.00 EA	TREE REMOVAL -A- (<6" Caliper) For Three Hundred Eight (Dollars) Seventy Five (Cents)	308	75	9262	50

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
372B	30.00 EA	TREE REMOVAL -B- (6" - <12" Caliper) For Four Hundred Twenty Seven (Dollars) Fifty (Cents)	427	50	12825	00
372C	30.00 EA	TREE REMOVAL -C- (12" - <24" Caliper) For Six Hundred Sixty Five (Dollars) Zero (Cents)	665	00	19950	00
372D	30.00 EA	TREE REMOVAL -D- (24" - <36" Caliper) For Six Hundred Sixty Five (Dollars) Zero (Cents)	665	00	19950	00
372E	30.00 EA	TREE REMOVAL -E- (36" - <48" Caliper) For Eight Hundred Seven (Dollars) Fifty (Cents)	807	50	24225	00
373A	30.00 EA	STUMP REMOVAL -A- (4" - <6" Caliper) For One Hundred Forty Two (Dollars) Fifty (Cents)	142	50	4275	00
373B	30.00 EA	STUMP REMOVAL -B- (6" - <12" Caliper) For One Hundred Sixty Six (Dollars) Twenty Five (Cents)	166	25	4987	50
373C	30.00 EA	STUMP REMOVAL -C- (12" - <24" Caliper) For One Hundred Ninety (Dollars) Zero (Cents)	190	00	5700	00
373D	30.00 EA	STUMP REMOVAL -D- (24" - <36" Caliper) For Two Hundred Thirty Seven (Dollars) Fifty (Cents)	237	50	7125	00

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Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
373E	30.00 EA	STUMP REMOVAL -E- (36" - <48" Caliper) For Two Hundred Eighty Five (Dollars) Zero (Cents)	285	00	8550	00
374A	30.00 EA	STUMP GRINDING -A- (4" - <6" Caliper) For One Hundred Eighteen (Dollars) Seventy five (Cents)	118	75	3562	50
374B	30.00 EA	STUMP GRINDING -B- (6" - <12" Caliper) For One Hundred Forty Two (Dollars) Fifty (Cents)	142	50	4275	00
374C	30.00 EA	STUMP GRINDING -C- (12" - <24" Caliper) For One Hundred Ninety (Dollars) Zero (Cents)	190	00	5700	00
374D	30.00 EA	STUMP GRINDING -D- (24" - <36" Caliper) For Two Hundred Sixty One (Dollars) Twenty Five (Cents)	261	25	7837	50
374E	30.00 EA	STUMP GRINDING -E- (36" - <48" Caliper) For Three Hundred Thirty Two (Dollars) Fifty (Cents)	332	50	9975	00
378	10.00 LF	Mechanical Barrier Root Control System- 24" Depth For Seventeen (Dollars) Ten (Cents)	17	10	171	00
411-A1	5.00 EA	Furnish and Install Concrete Foundation, Type A1 For One Thousand Forty Five (Dollars) Zero (Cents)	1045	00	5225	00

* Force Bid Price

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
412-G	10.00 EA	Furnish & Install A Pushbutton Post and Foundation For Five Hundred Ninety Three (Dollars) Seventy Five (Cents)	593	75	5937	50
412P-8	5.00 EA	Furnish & Install 8 Foot Aluminum Signal Post For One Thousand Two Hundred Fifty Four (Dollars) Zero (Cents)	1254	00	6270	00
412P-10	5.00 EA	Furnish & Install 10 Foot Aluminum Signal Post For One Thousand Three Hundred Sixty Eight (Dollars) Zero (Cents)	1368	00	6840	00
412P-12	2.00 EA	Furnish & Install 12 Foot Aluminum Signal Post For One Thousand Five Hundred Ten (Dollars) Fifty (Cents)	1510	50	3021	00
415-2	300.00 LF	Furnish & Install 2-Conductor, # 14 Cable on Span Wire, In Conduit, Pole or Mast Arm For Three (Dollars) Twenty Three (Cents)	3	23	969	00
415-3	300.00 LF	Furnish & Install 3-Conductor, # 14 Cable on Span Wire, In Conduit, Pole or Mast Arm For Three (Dollars) Thirty Three (Cents)	3	33	999	00
415-7	100.00 LF	Furnish & Install 7-Conductor, # 14 Cable on Span Wire, In Conduit, Pole or Mast Arm For Three (Dollars) Sixty One (Cents)	3	61	361	00
419-075	50.00 LF	Furnish & Install 3/4" Steel Conduit For Twenty (Dollars) Ninety (Cents)	20	90	1045	00

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NO TEXT ON THIS PAGE

ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
419S-1	200.00 LF	Furnish & Install 1-1/4" (1.25") Steel Conduit For Twenty Two (Dollars) Eighty (Cents)	22	80	4560	00
419S-2	100.00 LF	Furnish & Install 2" Steel Conduit For Twenty Six (Dollars) Sixty (Cents)	26	60	2660	00
419S-3	50.00 LF	Furnish & Install 3" Steel Conduit For Thirty Four (Dollars) Twenty (Cents)	34	20	1710	00
420-1	10.00 EA	Furnish & Install Standard Pullbox For One Thousand Three ~~Hundred~~ A Sixty Eight ~~Zero~~ (Dollars) ~~Zero~~ Zero (Cents)	1368	00	13680	00
420-3	2.00 EA	Furnish & Install Split Pullbox For One Thousand Four Hundred Seventy Two (Dollars) ~~Fifty~~ (Cents)	1472	50	2945	00
420R	5.00 EA	Raise Or Lower Pullbox Frame and Cover Only For Three Hundred Eight (Dollars) Seventy Five (Cents)	308	75	1543	75
422L	1000.00 LF	Furnish and Install Loop Wire For Three (Dollars) Eighty (Cents)	3	80	3800	00
422LS	500.00 LF	Furnish and Install Loop Saw Cut For Thirteen (Dollars) Thirty (Cents)	13	30	6650	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
424-4	5.00 EA	Remove Any Post For Three Hundred Ninety Nine (Dollars) Zero (Cents)	399	00	1995	00
424-8	5.00 EA	Remove Pedestrian Station Post, Foundation and Pushbutton For Two Hundred Twenty Eight (Dollars) Zero (Cents)	228	00	1140	00
424-11B	5.00 EA	Remove One Pedestrian Signal For One Hundred Seventy One (Dollars) Zero (Cents)	171	00	855	00
424-14	500.00 LF	Remove Cable From Span Wire, Conduit or Other Support For Five (Dollars) Seventy (Cents)	5	70	2850	00
424-22	5.00 EA	Remove Single Lane or Magnetometer Vehicle Detector and Housing For Two Hundred Thirty Seven (Dollars) Fifty (Cents)	237	50	1187	50
424-23	5.00 EA	Abandon Foundation For Three Hundred Fifty Six (Dollars) Twenty Five (Cents)	356	25	1781	25
424-24	5.00 EA	Removal Auxiliary Pole For Six Hundred Seventeen (Dollars) Fifty (Cents)	617	50	3087	50
424-25	10.00 EA	Remove Pullbox For Five Hundred Seventy (Dollars) Zero (Cents)	570	00	5700	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
424-26	5.00 EA	Remove Multi-Lane Magnetic Vehicle Detector For Two Hundred Thirty Seven (Dollars) Fifty (Cents)	237	50	1187	50
424-27	5.00 EA	Remove Pushbutton & Sign Assembly For One Hundred Forty Two (Dollars) Fifty (Cents)	142	50	712	50
426L	5.00 EA	Furnish & Install an L.E.D. Pedestrian Signal For One Thousand Forty Five (Dollars) Zero (Cents)	1045	00	5225	00
427-2	5.00 EA	Furnish & Install 5" x 7" Pushbutton Sign Assembly For Four Hundred Fifty Six (Dollars) Zero (Cents)	456	00	2280	00
442W	1000.00 LF	Epoxy Reflectorized Pavement Markings (WHITE) For Eleven (Dollars) Forty (Cents)	11	40	11400	00
442Y	1000.00 LF	Epoxy Reflectorized Pavement Markings (YELLOW) For Eleven (Dollars) Forty (Cents)	11	40	11400	00
442W-1	500.00 LF	Epoxy Reflectorized Pavement Markings -HAND WORK (WHITE) For Thirty Three (Dollars) Twenty Five (Cents)	33	25	16625	00
442Y-1	500.00 LF	Epoxy Reflectorized Pavement Markings -HAND WORK (YELLOW) For Thirty Three (Dollars) Twenty Five (Cents)	33	25	16625	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
443W	100.00 LF	Preformed Tape Pavement Markings (WHITE) For Three Dollars Eighty Cents	3	80	380	00
443Y	100.00 LF	Preformed Tape Pavement Markings (YELLOW) For Three Dollars Eighty Cents	3	80	380	00
443A	50.00 EA	Preformed Tape Pavement Markings (ARROWS) For Forty Seven Dollars Fifty Cents	47	50	2375	00
443C	50.00 EA	Preformed Tape Pavement Markings (CHARACTERS/ SYMBOLS) For Forty Seven Dollars Fifty Cents	47	50	2375	00
443W-12	100.00 LF	Preformed Tape Pavement Markings (12"WHITE) For Eleven Dollars Forty Cents	11	40	1140	00
443W-16	100.00 LF	Preformed Tape Pavement Markings (16"WHITE) For Fourteen Dollars Twenty Five Cents	14	25	1425	00
445W	100.00 LF	Preformed High Performance Tape Pavement Markings (WHITE) For Five Dollars Seventy Cents	5	70	570	00
445Y	100.00 LF	Preformed High Performance Tape Pavement Markings (YELLOW) For Five Dollars Seventy Cents	5	70	570	00

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Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
445A	10.00 EA	Preformed High Performance Tape Pavement Markings (ARROWS) For Forty Seven (Dollars) Fifty (Cents)	47	50	475	00
445C	10.00 EA	Preformed High Performance Tape Pavement Markings (CHARACTER/ SYM) For Forty Seven (Dollars) Fifty (Cents)	47	50	475	00
445W-12	500.00 LF	Preformed High Performance Tape Pavement Markings (12"WHITE) For ~~Forty~~ Fourteen (Dollars) Twenty Five (Cents)	14	25	7125	00
445W-16	100.00 LF	Preformed High Performance Tape Pavement Markings (16" YELLOW) For Seventeen (Dollars) Ten (Cents)	17	10	1710	00
450	50.00 EA	Furnish and Install Post Mounted Signs For One Hundred Sixty Six (Dollars) Twenty Five (Cents)	166	25	8312	50
451	30.00 EA	Furnish and Install Post Mounted Handicap Parking Signs For One Hundred Sixty Six (Dollars) Twenty Five (Cents)	166	25	4987	50
502	10.00 SF	Highway Sealing and Surface Coating (Latex) For Nine (Dollars) Fifty (Cents)	9	50	95	00
502A	200.00 LF	2" I.D. PVC Electrical Conduit For Fourteen (Dollars) Twenty Five (Cents)	14	25	2850	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
502B	150.00 LF	3" I.D. PVC Electrical Conduit For Seventeen (Dollars) Ten (Cents)	17	10	2565	00
502C	100.00 LF	4" I.D. PVC Electrical Conduit For Nineteen (Dollars) Zero (Cents)	19	00	1900	00
502J	10.00 CF	Electrical Junction Boxes For One Hundred Forty Two (Dollars) Fifty (Cents)	142	50	1425	00
510	100.00 SY	Bridge Deck Waterproofing Membrane For Twenty Three (Dollars) Seventy Five (Cents)	23	75	2375	00
511	20.00 BAGS	Pneumatically Placed Concrete For Ninety Five (Dollars) Zero (Cents)	95	00	1900	00
512	50.00 SF	Repairing Structural Slabs For Fifty Two (Dollars) Twenty Five (Cents)	52	25	2612	50
513	50.00 CY	Sand Bags in Place For Seventy One (Dollars) Twenty Five (Cents)	71	25	3562	50
514	10.00 GAL	Epoxy Protective Coating For One Thousand Five Hundred (Dollars) Zero (Cents)	1500	00	15000	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
515	1000.00 SY	Sawcutting Grooves in Existing Asphalt or Concrete Pavement For Seven Dollars Sixty Cents	7	60	7600	00
516	50.00 LB	Lime Cement Pavement Grouting For Forty Seven Dollars Fifty Cents	47	50	2375	00
517	10.00 EA	Drilling Holes for Lime Cement Grouting For Ninety Five Dollars Zero Cents	95	00	950	00
522	20.00 EA	Triangular Guide Rail Delineator For Four Dollars Seventy Five Cents	4	75	95	00
525A	100.00 LF	Cleaning and Resealing Trans. Jts (0 to 1,000') For Four Dollars Seventy Five Cents	4	75	475	00
525B	1000.00 LF	Cleaning and Resealing Trans. Jts (1,000' to 5,000') For Two Dollars Fourteen Cents	2	14	2140	00
525C	5000.00 LF	Cleaning and Resealing Trans. Jts (5,000' to 10,000') For One Dollars Forty Three Cents	1	43	7150	00
525D	10000.00 LF	Cleaning and Resealing Trans. Jts (10,000' & Over) For One Dollars Forty Three Cents	1	43	14300	00
526A	100.00 LF	Cleaning and Resealing Longit. Conc. Jts. (0 to 1,000') For Four Dollars Seventy Five Cents	4	75	475	00
526B	1000.00 LF	Cleaning and Resealing Longit. Conc. Jts. (1,000 to 5,000') For Two Dollars Fourteen Cents	2	14	2140	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
526C	5000.00 LF	Cleaning and Resealing Longit. Conc. Jts. (5,000 to 10,000') For One Dollars Forty Three Cents	1	43	7150	00
526D	10000.00 LF	Cleaning and Resealing Longit. Conc. Jts. (10,000' & Over) For One Dollars Forty Three Cents	1	43	14300	00
527A	100.00 LF	Cleaning, Filling and Sealing Existing Joints and Cracks in Asphalt Pavement (0' to 1,000') For Five Dollars Twenty Three Cents	5	23	523	00
527B	1000.00 LF	Cleaning, Filling and Sealing Existing Joints and Cracks in Asphalt Pavement (1,000' to 5,000') For Four Dollars Seventy Five Cents	4	75	4750	00
527C	5000.00 LF	Cleaning, Filling and Sealing Existing Joints and Cracks in Asphalt Pavement (5,000' to 10,000') For Two Dollars Sixty One Cents	2	61	13050	00
527D	10000.00 LF	Cleaning, Filling and Sealing Existing Joints and Cracks in Asphalt Pavement (10,000' & Over) For Two Dollars Four Cents	2	04	20400	00
540	50.00 EA	Steel Bollards For Forty Seven Dollars Fifty Cents	47	50	2375	00
701	50.00 LF	Galvanized Steel Poles With Precast Concrete Bases (40'-90') For One Thousand One Hundred Eighty Seven Dollars Cents Fifty	1187	50	59375	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
702	5.00 EA	Steps, Safety Cable & Harness with Auxiliary Brackets For Seven Hundred Twelve (Dollars) Fifty (Cents)	712	50	3562	50
703A	5.00 EA	Remote Electrical Compartment Enclosures For Seven Hundred Twelve (Dollars) Fifty (Cents)	712	50	3562	50
703B	5.00 EA	Remote Electrical Compartment Enclosures for Relight Equipment For Two Thousand Three Hundred Seventy Five (Dollars) Zero (Cents)	2375	00	11875	00
704	5.00 EA	Wire Harnesses For Three Hundred Fifty Six (Dollars) Twenty Five (Cents)	356	25	1781	25
705	5.00 EA	Galvanized Steel Cross Arms with Fixture Heads For Nine Hundred Fifty (Dollars) Zero (Cents)	950	00	4750	00
706	30.00 EA	Lens For Reflectors For Eighty (Dollars) Seventy Five (Cents)	80	75	2422	50
707	30.00 EA	Spill and Glare Control Reflectors For Two Hundred Eighty Five (Dollars) Zero (Cents)	285	00	8550	00
708	30.00 EA	1500 WATT Metal Halide Z-Lamps For One Hundred Eighteen (Dollars) Seventy Five (Cents)	118	75	3562	50
709	10.00 EA	Lighting Contractor Cabinets For One Thousand Nine Hundred (Dollars) Zero (Cents)	1900	00	19000	00
710	10.00 SET	Mounting Hardware to Retrofit Existing Steel Pole For Seven Hundred Twelve (Dollars) Fifty (Cents)	712	50	7125	00

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
711	2.00 EA	Outdoor Electronic Multi-Sport Scoreboards For Twelve Thousand Three Hundred Fifty (Dollars) Zero (Cents)	12350	00	24700	00
712	5.00 EA	Outdoor Electronic Baseball Scoreboards For Seven Thousand Six Hundred (Dollars) Zero (Cents)	7600	00	38000	00
713	4.00 SET (PR)	Integrated Football and Soccer Goals Sets- One Pair For Thirteen Thousand Three Hundred (Dollars) Zero (Cents)	13300	00	53200	00
714	4.00 SET (PR)	Lacrosse Goals- One Pair For One Thousand Seven Hundred Ten (Dollars) Zero (Cents)	1710	00	6840	00
153 of 612 715	50.00 CY	Installation of Clay Surface Areas For Seventy Six (Dollars) Zero (Cents)	76	00	3800	00
716	2.00 SET	Pitchers Mound and Base Sets For One Thousand One Hundred Forty (Dollars) Zero (Cents)	1140	00	2280	00
717	10.00 EA	Aluminim Players Benches For Eight Hundred Seven (Dollars) Fifty (Cents)	807	50	8075	00
718	5.00 PR	Foul Poles- One Pair For One Thousand Four Hundred Twenty Five (Dollars) Zero (Cents)	1425	00	7125	00

Contract No. H663021

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
719	150.00 LF	Fence Guard For Four Dollars Seventy Five Cents	4	75	712	50
720	6.00 SET	Tennis Net & Post Sets For One Thousand Forty Five Dollars Zero Cents	1045	00	6270	00
721	500.00 SF	Wind Screens For Two Dollars Thirty Eight Cents	2	38	1190	00
722	2.00 SET (PR)	Basketball Backstops System- One Pair For One Thousand Seven Hundred Ten Dollars Zero Cents	1710	00	3420	00
723	250.00 SF	Ornamental Steel Picket Fence (4'-0 to 8'-0) For Seventeen Dollars Ten Cents	17	10	4275	00
724	100.00 SF	4'-0 Wide Single Swing Ornamental Steel Picket Gates (4'-0 to 8'-0 HIGH) For Nine Dollars Fifty Cents	9	50	950	00
725	100.00 SF	10'-0 Wide Double Swing Ornamental Steel Picket Gates (4'-0 to 8'-0 HIGH) For Eleven Dollars Forty Cents	11	40	1140	00
726	500.00 SF	Ornamental Steel Picket Cantilever Slide Gates in 4' to 6' Heights(16'-22'WIDE) For Fifteen Dollars Twenty Cents	15	20	7600	00
727	250.00 SF	Straight Picket PVC Fence (4' to 6' HIGH) For Four Dollars Seventy Five Cents	4	75	1187	50
728	100.00 SF	4'-0 Wide Single Swing Straight Picket PVC Gates (4'-0 to 6'-0 HIGH) For Nine Dollars Fifty Cents	9	50	950	00

* Force Bid Price

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Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
729	100.00 SF	4'-0 Wide Double Swing Straight Picket PVC Gates (4'-0 to 6'-0 HIGH) For Nine Dollars Fifty Cents	9	50	950	00
730	250.00 SF	Straight Solid Panel PVC Fence (4'-0 to 8'-0 HIGH) For Seven Dollars Sixty Cents	7	60	1900	00
731	100.00 SF	4'-0 Wide Single Swing Solid Panel PVC Gates (4'-0 to 8'-0 HIGH) For Nine Dollars Fifty Cents	9	50	950	00
732	100.00 SF	10'-0 Wide Double Swing Solid Panel PVC Gates (4'-0 to 8'-0 HIGH) For Nine Dollars Fifty Cents	9	50	950	00
733	15.00 EA	35 Foot High Aluminum Flagpole- Internal Halyard For Seven Hundred Twelve Dollars Fifty Cents	712	50	10687	50
734	25.00 EA	Park Lighting For Two Thousand Six Hundred Sixty Dollars Zero Cents	2660	00	66500	00
735	10.00 EA	Barrier Free Water Fountains For Three Thousand Three Hundred Twenty Five Dollars Zero Cents	3325	00	33250	00
736	10.00 EA	Park Benches With Backs For Eight Hundred Seven Dollars Fifty Cents	807	50	8075	00

* Force Bid Price

NO TEXT ON THIS PAGE

ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
737	10.00 EA	Park Picnic Tables Without Backs For Eight Hundred Thirty One (Dollars) Twenty Five (Cents)	831	25	8312	50
738	15.00 EA	Park Receptacles For Two Hundred Thirty Seven (Dollars) Fifty (Cents)	237	50	3562	50
744 *	1.00 LS	Force Account Work * For One Hundred Thousand dollars and no cents (Dollars / Cents)	100000 *	00	100000 *	00
751	10000.00 SF	Synthetic Turf Field With Underdrain For Six (Dollars) Zero (Cents)	6	00	60000	00
752	5000.00 SF	Upgrade to Colored Infill For Zero (Dollars) Seventy Five (Cents)	0	75	3750	00
753	50.00 LF	Sports Field Striping For Fourteen (Dollars) Twenty Five (Cents)	14	25	712	50
754	20.00 SF	Custom LOGOS, NUMBERS and LETTERING For Twenty Eight (Dollars) Fifty (Cents)	28	50	570	00
755	100.00 SF	Heavy Duty NON-INFILL Batting Cage Turf For Seventeen (Dollars) Ten (Cents)	17	10	1710	00
756	10.00 SF	Synthetic Turf Repair For Forty Seven (Dollars) Fifty (Cents)	47	50	475	00
757	300.00 LF	6" X 6" Recycled Plastic Lumber Perimeter Edge Nailer For Nine (Dollars) Fifty (Cents)	9	50	2850	00

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Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
758	1.00 EA	G-MAX Testing For Eight Hundred Thirty One Dollars Twenty Five Cents	831	25	831	25
759	5000.00 SF	Antimicrobial Treatment For Zero Dollars Ten Cents	0	10	500	00
760	10000.00 SF	Maintenance For Turf Fields Installed Under This Contract For Zero Dollars Five Cents	0	05	500	00
761	5000.00 SF	Maintenance For Turf Fields Installed By Others For Zero Dollars Ten Cents	0	05	250	00
762	250.00 LB	Integral Color Pigment for Cement Concrete For Nineteen Dollars Zero Cents	19	00	4750	00
763	2500.00 SF	Imprinting on Cement Concrete Pavement or Sidewalk For Three Dollars Fifty Six Cents	3	56	8900	00
764	500.00 SF	Colored and Imprinted Asphalt For Eleven Dollars Forty Cents	11	40	5700	00
765	10.00 EA	Furnish & Install Concrete Parking Bumper For Forty Seven Dollars Fifty Cents	47	50	475	00

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NO TEXT ON THIS PAGE

ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
766	100.00 SF	Retaining Wall System For Forty Seven (Dollars) Fifty (Cents)	47	50	4750	00
767	100.00 LF	Furnish, Install & Maintain Turbidity Curtain For Fourteen (Dollars) Twenty Five (Cents)	14	25	1425	00
768	100.00 LF	Furnish and Install Armorless Bridge Joint System For Fifty Two (Dollars) Twenty Five (Cents)	52	25	5225	00
769A	5.00 EA	Type "A" Catch Basin Insert - Filter Type (Combination Inlet) For Four Hundred Seventy Five (Dollars) zero (Cents)	475	00	2375	00
769B	5.00 EA	Type "B" Catch Basin Insert - Filter Type (Curb Inlet Only) For Five Hundred Twenty Two (Dollars) Fifty (Cents)	522	50	2612	50
770A	5.00 EA	Type "A" Catch Basin Insert - Sediment Control Type (Combination Inlet) For Four Hundred Twenty Seven (Dollars) Fifty (Cents)	427	50	2137	50

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ITEMIZED PROPOSAL

Item No.	Approximate Quantities	Item With Unit Price Written in Words	Unit Price Bid Dollars	Unit Price Bid Cents	Amount Bid Dollars	Amount Bid Cents
770B	5.00 EA	Type "B" Catch Basin Insert - Sediment Control Type (Curb Inlet Only) For Four Hundred Seventy Five (Dollars) Zero (Cents)	475	00	2375	00
771A	5.00 EA	Type "A" Catch Basin Insert - Sediment Control Type with Pathogen Filtration (Combination Inlet) For Five Hundred Twenty Two (Dollars) Fifty (Cents)	522	50	2612	50
771B	5.00 EA	Type "B" Catch Basin Insert - Sediment Control Type with Pathogen Filtration (Curb Inlet Only) For Six Hundred Seventeen (Dollars) Fifty (Cents)	617	50	3087	50

Three Million Seven Hundred Seventy Four Thousand Six Hundred Twenty Six Dollars Twenty Five Cents

Total Amount In Words

TOTAL BID IN NUMBERS $ 3,774,626.25

* Force Bid Price

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COUNTY OF NASSAU
DEPARTMENT OF PUBLIC WORKS
CONSULTANT'S, CONTRACTOR'S AND VENDOR'S DISCLOSURE STATEMENT

1. Name of Firm: The LandTek Group, Inc.

   Address: 235 County Line Road

   City and State: Amityville, New York Zip Code 11701

2. Firm's Vendor Identification Number: #11- 2945683

3. Type of Business:

   _____ Public Corp. _____ Partnership _____ Sole Proprietorship _____ Joint Venture

   _____ Ltd Liability Company _____ Closely Held Corp. X Other (specify)
   Sub Chapter S Corporation

4. List names and address of all principals; that is, all individuals serving on the Board of Directors or comparable body, all partners and limited partners, all corporate officers, all parties of Joint ventures, and all members and officers of Limited Liability Companies (attach additional sheet (s) if necessary)

[redacted]

5. List all names and address of all shareholders, members, or partners of the firm. If the shareholder is not an individual, list the individual shareholders/partners/members. (* If a Publicly held Corporation include a copy of 10K form in lieu of completing this section) (attach additional sheet (s) if necessary).

[redacted]

6. List all affiliated and related companies and their relationship to the firm entered on line 1 (one) above [if none, enter "None"] (* include a separate disclosure form for each affiliated or subsidiary company) (attach additional sheet (s) if necessary).

NONE

7. VERIFICATION: This section must be signed by a principal of the Consultant, Contractor or Vendor authorized as signator of the firm for the purpose of executing contracts. The undersigned affirms and so swears that he/she has read and understood the foregoing statements and they are, to his/her own knowledge, true.

Dated: 09/15/2014 Signed: _____
Michael Ryan/President

Print Name: Michael Ryan

Title: President

PROPOSAL: For all work in accordance with the drawings and specifications:

The LandTek Group, Inc.
(Individual, Firm or Corporation, as case may be)

Individual's Social Security Number _____

Firm or Corporation's Federal ID Number #11-2945683

Firm or Corporation's Municipal License ID Number N/A

Municipal Licensing Agency H2218000000

By: _____ Date: 09/15/2014
Michael Ryan/President

(Print) Michael Ryan Title: President

WHERE BIDDER IS A CORPORATION, ADD

ATTEST: _____
Secretary

Edward Ryan
Vice President/Treasurer/Secretary

(CORPORATE)
(SEAL)

NO TEXT ON THIS PAGE

QUALIFICATION STATEMENT

Note: All blanks in the form are to be filled in. Where blanks are not applicable to your firm, so indicate in each instance.

1. How many years has your firm been in the business under your present business name? 16 Years

2. How many years experience in the construction work of a similar type as this contract has your firm had;

   a. as a Prime Contractor 35 Years

   b. as a Subcontractor 35 Years

3. List below the construction projects your firm has under way as of this date:

Contract Amount	Class of work	Percent Completed	Name and Address of Owner or Contracting Officer

PLEASE SEE ATTACHED OPEN JOB LIST

(use additional blank sheets if additional space is necessary)

4. List the projects which your firm as a firm has performed in the past few years which you feel will qualify you for this work:

Contract Amount	Class of work	Percent Completed	Name and Address of Owner or Contracting Officer

PLEASE SEE ATTACHED COMPLETED JOB LIST

(use additional blank sheets if additional space is necessary)

5. Have you:
   a. ever failed to complete any work awarded to You? NO
      If so; identify the project, the owner, the contract amount, the circumstances and date of all such failures to complete.

   b. ever been defaulted on a contract? NO
      If so; identify the project, the owner, the contract amount, the circumstances and the date of all default actions

NO TEXT ON THIS PAGE

c. ever been declared a non-responsible bidder by any municipality or public agency? NO
If so; identify the project, the owner, the contract amount, the circumstances and the date of all such declarations

d. ever been barred from bidding municipal or public contracts? NO
If so; identify the municipality or public agency, the circumstances, date and term of disbarment for all debarments.

(use additional blank sheets if additional space is necessary)

6. Has any officer, partner or principal of your firm ever been on officer, partner or principal of some other firm:

a. that failed to complete a construction contract? NO
If so, state name of individual and identify the name of firm, the project, the owner, the contract amount, the circumstances and the date of all such failures to complete for all principals of the firm.

b. that has ever been defaulted on a contract? NO
If so; state the name of the individual and identify the name of the firm, the project, the owner, the contract amount, the circumstances and the date of all default actions for all principals of the firm.

c. that has ever been declared a non-responsible bidder by any municipality or public agency? NO
If so; state the name of the individual and identify the name of the firm, the project, the owner, the contract amount, the circumstances and the date of all such declarations for all principals of the firm.

NO TEXT ON THIS PAGE

d. that has ever been barred from bidding municipal or public contracts? NO
If so; state the name of the individual and identify the name of the firm, the municipality or public agency, the circumstances, date and term of debarment for all debarments for all principals of the firm.

(use additional blank sheets if additional space is necessary)

7. Has any officer or partner of your firm ever failed to complete a construction contract handled in his name? NO
If so, state name of individual, name of owner and reason therefor:

8. Disclose any and all violations of the Prevailing Wage and Supplemental Payment Requirements of the Labor Law of New York State.

PLEASE SEE ATTACHED PREVAILING WAGE LOG

9. Disclose any and all other Labor Law Violations, including, but not limited to, child labor violations, failure to pay wages, or unemployment insurance tax delinquencies within the past five years.

NO

10. In what other lines of business are you financially interested?

Site Work, Synthetic Turf, Concrete, Landscape, Athletic Fields, Drainage and Fencing.

NO TEXT ON THIS PAGE

11. What is the construction experience of the principal individuals of your firm?

Individual's Name	Present Position or Office	Years of Construction Experience	Magnitude and type of work	In what Capacity
PLEASE SEE ATTACHED RESUMES				

(use additional blank sheets if additional space is necessary)

12. List below the equipment that you own that is available for the proposed work, giving present location where it may be inspected:

Item	Description, Size Capacity, Year, etc.	Years of Service	Present Location
PLEASE SEE ATTACHED EQUIPMENT LIST			

(use additional blank sheets if additional space is necessary)

NOTE: Should the equipment be moved from the above mentioned location, the submitted hereby agrees upon request of the County to state the new location where same may be found.

13. If any of the above equipment is covered by chattel mortgage, conditional bill of sale, lien, or like encumbrance, state the complete details as to nature and amount of encumbrance, the name and address of the holder, etc.

N/A

(use additional blank sheets if additional space is necessary)

NO TEXT ON THIS PAGE

14. In what manner have you inspected this proposed work? Explain in detail.

Reviewed plans and specifications

(use additional blank sheets if additional space is necessary)

15. Explain your plan and lay-out for performing the proposed work.

per plans and specifications

16. If a contract is awarded or a permit is issued, to your firm, who will have the personal supervision of the work? Attach resume.

John Sulinski - Please see attached resumes

17. Insurance carried by your firm:

Type	Company	Limits of Coverage	Term

PLEASE SEE ATTACHED INSURANCE SAMPLE

NO TEXT ON THIS PAGE

18. The undersigned hereby declares: That the foregoing information contained in this bid is a true statement, including, but not limited to, the financial condition of the individual firm herein first named as of the date herein given; the undersigned has read that portion of the Instructions to the Bidders entitled **"Qualifications and Responsibility of Bidders"** and that the bidder acknowledges its affirmative obligation to transmit with this statement any matters relevant and material to those contractor qualifications and responsibility standards; that this statement is for the express purpose of inducing the party to whom it is submitted to award the submitted a contract or issuance of a permit; that any depository, vendor or other agency herein named is authorized to supply such party with any information necessary to verify this statement; and that it understands and agrees that any material misrepresentation or omission of material fact may be deemed grounds for disqualification of the bidder as "not responsible," and may also subject the bidder to future debarment, penalties, and sanctions, to the extent permitted by law.

NO TEXT ON THIS PAGE

NOTE: The bids shall be sworn to by the person signing them, in one of the following forms:

(Form of affidavit where Bidder is a corporation)

STATE OF NEW YORK)
)ss.:
COUNTY OF ~~NASSAU~~ Suffolk)

Michael Ryan Being duly sworn, deposes and says: That he resides at 264 Secatogue Lane, West Islip Street, in the City of New York) that he is the President of The LandTek Group, Inc. the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal and was affixed by order of the Board of Directors of said corporation; that he signed his name thereto by like order; and that he has knowledge of the several matters therein stated and they are in all respects true.

Subscribed and sworn to before me
this 15th day of September , 20 14 .

Jennifer A Peter (Peterson)
Notary
JENNIFER A PETER
NOTARY PUBLIC-STATE OF NEW YORK
No. 01PE6215464
Qualified in Suffolk County
My Commission Expires 12/8/17

(Form of Affidavit where Bidder is a firm)

STATE OF NEW YORK)
)ss.:
COUNTY OF NASSAU)

_____ Being duly sworn, deposes and says: That he is a member of the firm described in and which executed the foregoing bid; that he duly subscribed the name of the firm hereunto on behalf of the firm; and that the several matters therein stated are in all respects true.

Subscribed and sworn to before me
this day of , 20 .

_____
Notary

(Form of Affidavit where Bidder is a individual)

STATE OF NEW YORK)
)ss.:
COUNTY OF NASSAU)

_____ Being duly sworn, deposes and says: That he is the person described in and who executed the foregoing bid and that the several matters therein stated are in all respects true.

Subscribed and sworn to before me
this day of , 20 .

_____
Notary

NO TEXT ON THIS PAGE

THE LANDTEK GROUP, INC.
LANDTEK
235 COUNTY LINE ROAD, AMITYVILLE, NY 11701
TEL (631) 691-2381 WWW.LANDTEKGROUP.COM FAX (631) 598-8280

ATTACHMENTS

NO TEXT ON THIS PAGE

New York State Department of Labor
Andrew M. Cuomo, Governor
Peter M. Rivera, Commissioner

March 27, 2014

Ms. Danielle Graber
Compliance and Equipment Manager
The LandTek Group, Inc.
235 County Line Road
Amityville, New York 11701

01838/18514

Dear Ms. Danielle Graber:

Per your request, this letter may be used for verification of your Skilled Construction Craft Laborer program registered with the New York State Department of Labor.

Please note, the NYS Department of Labor is recognized as a State Apprenticeship Agency for Registered Apprenticeship by the United States Department of Labor, as indicated in Section 29 CFR Part 29.13 of the Federal Apprenticeship Regulations.

Sincerely,

Jane Thompson
Director,
Apprenticeship Training

Phone: (518) 457-6820 Fax: (518) 457-7154
W. Averell Harriman State Office Campus, Building 12, Room 455/459, Albany, NY 12240
www.labor.ny.gov ATCO@labor.ny.gov

New York State Department of Labor

Apprentice Training Program Registration Agreement

RECEIVED
HICKSVILLE, L. I.
MAR 06 2013
NYS DEPARTMENT OF LABOR
APPRENTICESHIP UNIT

Revision ☒ Ownership / Name Change and additional signatories (nature of change) & Address, Phone #, fax # (#9)

State Use Only	
AT sponsor no.	0838
ATP code	15-154
Effective date of AT program	

1. Name of sponsor: The LandTek Group Inc.
2. Mailing address: 235 County Line Rd Amityville NY 11701 Suffolk (number & street) (city) (state) (zip code) (county)
3. Actual address: same as above (number & street) (city) (state) (zip code) (county)
4. Telephone no.: 631-691-2381 (telephone #) (ext.#) 631-598-8280 (fax #)
5. Trade/Occupation: Ornamental Iron Worker
6. No. employees: 20 No. apprentices: 6 No. journeyworkers: 10 7. Ratio: 1:1.4 (non-standard) ☐
8. ISC code: 1799 9. DOT code: 801381022 10. Length of program: 36 months
11. Apprentice probationary period: 9 months 12. Work process: Standard ☑ or Revised ☐
13. Minimum journeyworker rate: $ 18 per hour 14. Effective date of wages: 1/1/2007
15. Apprentice wage progression for each period - in months (M) or hours (H)

1	2	3	4	5	6	7	8	9	10
M☐ H☒ 1000	M☐ H☒ 1000	M☐ H☒ 1000	M☐ H☒ 1000	M☐ H☒ 1000	M☐ H☒ 1000	M☐ H☐	M☐ H☐	M☐ H☐	M☐ H☐
60%	75%	80%	85%	90%	95%				

16. The sponsor agrees to comply with the provisions on this side and on the reverse side of this agreement.

17. Signature of official sponsor representative — Date 3/5/13
Edward Ryan, Vice President
Print name and title
Signature of official sponsor representative — date 3/5/13
Daniele Graber, Business Administrator
Print name and title

18. Signature of union representative of the sponsor (if any) — Date 3/5/13
Stephen Reppen, Controller
Print name, title, and union name
Signature of official sponsor representative — date 3/5/13
John Sulinski, VP of Operations
Print name and title

19. Signature New York State Department of Labor — Date 8/13/13

AT 10 (07-10)

RECEIVED
MAR 25 2013
APPRENTICE TRAINING
CENTRAL OFFICE

SCHOOL (631) 286-8677
FAX (631) 286-8883

APPRENTICESHIP AND TRAINING -JOURNEYMEN . RETRAINING SCHOOL
INTERNATIONAL UNION OF OPERATING ENGINEERS
LOCAL UNIONS 138, 138A, 1388 Nassau & Suffolk Counties
AFL-CIO 247-C
UNION- P.O. BOX 206, FARMINGDALE, N.Y. 11735-0209
SCHOOL- 575 HORSEBLOCK ROAD, BROOKHAVEN, N.Y. 11719

June 7, 2012

Re: Local 138 Apprenticeship School (the **"Apprenticeship School"**)
NYS Sponsor # 00422
NYS ATP Code# 18318
Wild Woman Earth Works Co.

To Whom It May Concern,

This letter serves to confirm that the **Apprenticeship School** currently conducts a fully registered and approved New York State Training (ATP). The ATP is co-sponsored by Local 138 and all employers/signatories, including but not limited to Wild Woman Earth Work Co., to the Local138 Agreement Covering Working Conditions, dated June 1, 2009 to May 31, 2015. The ATP complies with all provisions of Suffolk and Nassau County Law.

Sincerely,

LOCAL 138 APPRENTICESHIP TRAINING FUND

PLUMBERS LOCAL UNION No. 200

OF THE

UNITED ASSOCIATION OF JOURNEYMEN AND APPRENTICES OF THE PLUMBING AND PIPE FITTING INDUSTRY OF THE UNITED STATES AND CANADA

2123 5TH AVENUE, RONKONKOMA, N.Y. 11779

(631) 981-2158

FAX (631) 981-1658

DANNY GRODOTZKE
BUSINESS MANAGER

ARTHUR GIPSON
BUSINESS AGENT

MARIO MATTERA
BUSINESS AGENT

RICHARD P. BROOKS
FIN. SEC./TREASURER

JAY MARELLI
PRESIDENT

PAUL MASON
VICE PRESIDENT

EDWARD YOUNG
REC. SECRETARY

July 24, 2013

To Whom It May Concern:

Please be advised that Commercial Instrumentation Services is signatory to a Collective Bargaining Agreement with Plumbers Local Union # 200 and is current with all fringe benefit contributions. As such, Commercial Instrumentation Services. is considered to be a contractor in good standing.

If you have any questions regarding this communication, please contact me at the Union office.

Sincerely,

Richard P. Brooks
Financial Secty/Treasurer

RPB/ab

JOINT APPRENTICESHIP
and
TRAINING COMMITTEE
for the

Electrical Industry
OF NASSAU
& SUFFOLK COUNTIES

370 Motor Parkway
Hauppauge, NY 11788
(631) 434-3939
Fax: (631) 434-3991
www.lijatc.org

June 8, 2012

Vin Con Electric Co., Inc.
188 Quality Plaza
Hicksville, NY 11801
Attn: M. Perakakis, V.P.

Dear Mr. Perakakis:

Please be advised that because you are signatory in good standing to the Collective Bargaining Agreement between Local Union No. 25, I.B.E.W. and the National Electrical Contractors Association you are entitled to hire apprentices through the Joint Apprenticeship and Training Committee electrical apprenticeship program. Our apprenticeship is a registered New York State Apprenticeship Program.

If at any time you have need to provide proof that the apprentices in your employ are part of a New York State registered apprenticeship program, we will be happy to provide you with a copy of their AT-401 (New York State Apprenticeship Agreement).

Sincerely,

JOINT APPRENTICESHIP
AND TRAINING COMMITTEE

Christopher E. Kelly
Training Director

CEK/cg

THE COUNTY OF NASSAU
OFFICE OF CONSUMER AFFAIRS
200 COUNTY SEAT DRIVE, MINEOLA N.Y. 11501
Telephone 571-3871

The issuance and retention of this license is contingent upon the licensee's compliance with the laws of The State of New York and the County of Nassau, the rules and regulations of the Office of Consumer Affairs, and the rules and regulations of all other New York State and Nassau County agencies, now in effect or which may hereafter be enacted.

LICENSE FOR TP 03/31/2016

MASONRY CONTRACTORS

LANDTEK GROUP INC. THE
235 COUNTY [illegible] ROAD
AMITYVILLE NY 11701

LICENSE NO. H2218000000
DATE OF ISSUE 04/01/2014
EXPIRATION DATE 03/31/2016

M Farley
COMMISSIONER

THIS LICENSE MUST BE CONSPICUOUSLY DISPLAYED
DOES NOT CONSTITUTE A PLUMBING OR ELECTRICAL LICENSE

THE LANDTEK GROUP, INC.
LANDTEK
235 COUNTY LINE ROAD, AMITYVILLE, NY 11701
TEL (631) 691-2381 WWW.LANDTEKGROUP.COM FAX (631) 598-8280

Nassau County Department of Public Works
2014 General Requirements Contract for Various Civil/Site Reconstruction
Highways, Drainage, Bridges, Site, Parking Lots and Parks
Contract # - H66302U

ADDENDUMS

Addendum #1 – 9/10/2014 - _____
Michael Ryan/President

THE LANDTEK GROUP, INC.

BACKGROUND AND EXPERIENCE

OF

PRINCIPAL MEMBERS

PRESIDENT

Humanitarian Affliations:

- The Marty Lyons Foundation
- Suffolk County P.A.L.
- Contractors for Kids
- Nassau County P.A.L.

Committees:

Michael Ryan has been quite active in regional and national committees related to sports field management and development.

Board of Directors of the Suffolk County Sports Hall of Fame, a nonprofit organization that honors outstanding persons, living or deceased, who have gained prominence and have made substantial contributions on behalf of themselves and Suffolk County in the fields of professional and amateur sports.

Mr. Ryan is also on the Board of Directors for St. Joseph's College, an Institution that prepares students for lives of integrity, social responsibility and service.

EXPERIENCE

Mr. Ryan has over 30 years' experience in the construction industry and has become a leader in professional, college and high school athletic field and golf course construction. The company specializes in natural and synthetic field design and construction. Over the years, The LandTek Group has built state-of-the-art facilities for the New York Mets, the New York Yankees, the New York Jets and Giants, and the New York Red Bulls, as well as Columbia University, Stony Brook University, Dowling College, Hofstra University and numerous other universities, colleges, school districts and municipalities throughout the Northeast.

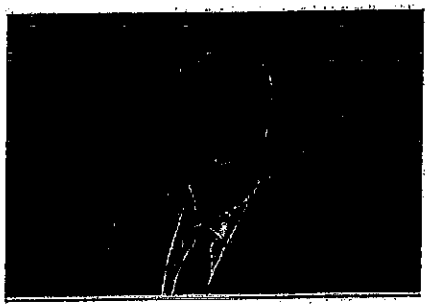
In 1979, after many years as a landscape and tree care expert, Michael Ryan founded the LandTek Group. He expanded his expertise into turf care and athletic fields. This enhanced knowledge brought LandTek into the specialized industry of athletic field construction. Always forward thinking, Mike foresaw the need for improvement in the athletic field industry and began researching the new synthetic turf materials that were coming on the market. Recognizing that the new turf designs were safer for the athletes, cost effective to the school districts and municipalities, and easier to maintain, Mr. Ryan took this opportunity to expand into this market and provide organizations and communities with better and safer facilities. To date, Mike has constructed and overseen more than half a billion dollars' worth of sports facilities, built several golf courses, and acted as a site developer for multiple projects. Mike has acted as a consultant on numerous jobs for architects and engineers, where his expertise has proven invaluable. His knowledge and leadership in the industry has led to many engagements as the keynote speaker at seminars focused on athletic field development, synthetic turf, under-field drainage and quality control. Mr. Ryan's proficiency, capability and motivation have driven The LandTek Group to become to the top builder of sports fields in the United States.

A caring and humble individual, Michael Ryan leads by example. He has contributed many hours of his time to assist individuals and families in need and has supported many charitable groups and causes without seeking recognition or honors. Due to his dedication to helping individuals (especially children) and communities, Mr. Ryan has been named The Marty Lyons Foundation Man of the Year, the Suffolk County PAL Man of the Year and the St. Joseph's College Man of the Year. He is an active member of these and numerous other nonprofit organizations, which are dedicated to supporting children and their families living under difficult circumstances.

Mike and The LandTek Group deliver on the promise of "Building Champions from the Ground Up."

EDWARD RYAN, VICE PRESIDENT, SECRETARY, TREASURER

VICE PRESIDENT, SECRETARY, TREASURER



EDUCATION:

- SUNY Farmingdale, Farmingdale, NY
- Rutger's University, New Brunswick, NJ

PROFESSIONAL PROFILE:

- Multiple Fields Town of Oyster Bay – Nassau County, N.Y.
- Multiple Fields Town of Babylon – Suffolk County, N.Y.
- Multiple fields Town of Brookhaven – Suffolk County, N.Y.
- Synthetic soccer fields – Town of Smithtown – Suffolk County, N.Y.
- Synthetic Softball/Softball field – Town of Hempstead – Nassau County, N.Y.
- Numerous projects for the Diocese of Rockville Centre, N.Y.
- Multiple High School and College Athletic Fields located in Nassau, Suffolk, Staten Island, and Westchester Counties.

EXPERIENCE

Edward Ryan joined the LandTek Group, Inc. in 1990 and currently has over 30 years' experience in athletic field construction. He has been instrumental in the establishment and development of the Synthetic Division of The LandTek Group and has garnered an excellent reputation within the industry. Edward attended SUNY Farmingdale, Farmingdale NY as well as Rutgers University, New Brunswick, NJ studying horticulture and construction, consulting, research on new equipment and construction methods.

As the Vice President of the Athletic/Synthetic Divisions, Edward strives to maintain its exemplary reputation. His main duties are overseeing the estimating department, and managing all quotes and proposals. He personally oversees all athletic construction projects taken on by The LandTek Group insuring that they meet the highest standards and maintain quality control.

Edward has personally been involved in the building and award of over a quarter billion dollars' worth of sports field construction and was responsible for The LandTek Group being awarded its first project with a professional sports team.

JOHN SULINSKI, VICE PRESIDENT OF OPERATIONS, COO

VICE PRESIDENT OF OPERATIONS, COO

Education:

- Stony Brook University, Stony Brook, N.Y

Affliations:

- American Red Cross
- OSHA Certified
- Member of ASCE {American Society of Civil Engineers}
- Member of the Metropolitan Executive & Professional Registry

Additional Profile Achievements:

- New York Jets Practice Facility – Hofstra University, Hempstead, N.Y.
- Stony Brook University – Stony Brook, New York
- Aviator Sports Complex – Floyd Bennett Field, Gateway National Park, Brooklyn, NY.
- Dowling College - Oakdale, New York
- Adelphi University – Garden City, New York
- Citi Field – NY Mets New Stadium – Flushing, New York
- Red Bull Arena – Harrison, New Jersey
- Dean Skelos Sports Complex – Village of Rockville Centre, New York
- Multiple college fields (natural and synthetic) (Columbia University, Hofstra University, N.Y.I.T., Queens College, SUNY Farmingdale, SUNY Stony Brook, Wagner University).

EXPERIENCE

John joined The LandTek Group in February 2003 as a Senior Manager and has recently been named Vice President of Operations/COO. His 20 years of construction knowledge has been instrumental in developing our multi-talented workforce. Since starting with The LandTek Group, John has implemented the use of project management and computer aided design software. These technological advances have helped The LandTek Group stay at the leading edge of design and construction. John is responsible for managing the day-to-day operations on all projects companywide and oversees all company purchases, including equipment.

Earlier in his career at The LandTek Group, John implemented the technically advanced management and computer design software that helped the company stay at the leading edge of design and construction in its industry. Having over 20 years of professional engineering experience in sports field construction has enabled him to design multiple facilities for The LandTek Group, and many Owners and Architects. John earned his Bachelor's Degree in Engineering at SUNY Stony Brook.

John was responsible for managing the field construction for the New York Mets, New York Jets, and the New York Red Bulls. He was directly involved with large scale construction projects at St. Dominic's, Dowling College, Stony Brook Lavalle Stadium, and St. Joseph's College. Other projects include the Aviator Sports Complex – Floyd Bennett Field, Citi Field – NY Mets New Stadium – Flushing, and multiple sports fields located throughout the tri-state area.

His professional memberships include the ASCE (American Society of Civil Engineers) and the Metropolitan Executive and Professional Registry. He is associated with the American Red Cross and is OSHA Certified.

MARTY LYONS, VICE PRESIDENT MARKTETING & PUBLIC RELATIONS

VICE PRESIDENT OF MARKETING & PUBLIC RELATIONS

Education:
University of Alabama

- 1978, All-American
- 1978, SEC Defensive Player of the Year
- 1978, Alabama Defensive Player of the Year
- 1978, Outstanding Defensive Lineman in the Nation; Awarded by the Columbus

Quarterback Club

- Defensive Player of the Decade – 1970s
- Election to the Alabama Team of the Century
- Captain of the 1978 National Champions
- 2006, Sports Illustrated All-time Alabama Team

2011, National Football Foundation, College Football Hall of Fame

National Football League – N.Y Jets

- 1979, Number One Draft Choice
- 1981, Member of the New York Sack Exchange
- 1982, Pro-Bowl Alternate
- 1983, Pro-Bowl Alternate
- 1984, National Football League Man of the Year
- 1991, Retired after 12 seasons
- 2003, Member of All time New York Jets Four Decade Team

EXPERIENCE

Marty Lyons joined the LandTek Group as the Director of Sales & Marketing in 2000, was appointed Senior Vice President of Operations in 2007 and recently promoted to Vice President of Marketing and Public Relations. He has enjoyed a long successful career in the worlds of sports, business and philanthropy and has successfully merged his renown in sports and business savvy to greatly contribute to the company's growth as one of the premier "turf" installation business.

Mr. Lyons' football experience matured under the guidance of the late Paul "Bear" Bryant at the University of Alabama where he was recognized as an All-American in 1978. His peers elected him captain of the NCAA Division 1 National Champion football team that same year. His athletic skill propelled him to be a first round draft pick in the 1979 National Football League draft. Mr. Lyons joins the 2011 class of the College Football Hall of Fame.

Mr. Lyons' professional football career with the New York Jets spanned twelve (12) years; during which time, he played both defensive tackle and defensive end. He played a key role in the formation of "the New York Sack Exchange" which led the league in quarterback sacks in 1981. His performance on the field led to his selection as a Pro Bowl alternate in 1982 and 1983. Experience and leadership enabled him to serve as one of the defensive team captains in 1988.

In 1982, Mr. Lyons realized that there was more to life than football. According to Mr. Lyons, "In March 1982, three events altered my life. In the period of one week, my father, Leo, passed away suddenly; Keith, a little boy to whom I was a Big Brother, passed away from leukemia; and my first son, Rocky, was born. Imagine being on top of the world, and in the period of seven days you are forced to see the frailty, unfairness, and the wonder of life. I decided to use my name and my God-given talent to make a difference in the lives of terminally ill children."

Mr. Lyons is a featured athlete in Bear's Boys: Thirty-Six Men Whose Lives Were Changed by Coach Paul Bryant by Eli Gold. Bear's Boys is a collection of inspiring stories featuring 40 men whose lives were altered by their encounter with the legendary coach while they were players and coaches at Alabama. The stories of star players such as Joe Namath, Ken Stabler, Marty Lyons, Bob Baumhower, Cornelius Bennett, and Gene Stallings show how the Coach forever changed them as young men and ball players on the field and later in life after football. Marty was also featured in Legends of Alabama Football by Richard Scott in 2004.

Marty is currently Color Analyst and Outback Bowl for the New York Jets, ESPN 1050 Game Day.

JEFFREY A. LONG

SENIOR PROJECT MANAGER

EDUCATION

- Long Island University, C.W. Post Campus, Brookville, NY
- Farmingdale College, Farmingdale, NY
- Arborist and Soil Science

PROFESSIONAL PROFILE

Seton Hall University – East Orange, NJ
Montclair University Sprague Field – Montclair, NJ
Rider University – Lawrenceville, NY
East Camden Regional High School - Camden, NJ
Bende Park - Medford, NJ
John St. Park – Carteret, NJ
Hunterdon Central High School – Hunterdon, NJ
Washington Township – Somerset, NJ
East County Reserve – Somerset, NJ
West Side Park – Newark, NJ
FieldTurf Ranney School – Tinton Falls, NJ
Hazlet Township Raritan High School – Raritan, NJ
Neptune Reynolds Field – Neptune, NJ
Audubon Green Wave Park – Audubon, NJ
Mount Saint Mary's – Watchung, NJ
Depkin Field – Hasbrouck Heights, NJ
Stevens Technical Institute – Hoboken, NJ
Woodbridge High School – Woodbridge, NJ
Harvest Woods Park – Brunswick, NJ
Perth Amboy High School – Perth Amboy, NJ
St. John Vianney High School – Holmdel, NJ
Hunterdon Golf Course – Flemington, NJ
Rotella Golf Course – Haverstraw, NJ
Rockleight Golf Course – Rockleigh, NJ
Overpeck Golf Course – Teaneck, NJ

EXPERIENCE

Jeff joined the LandTek Group, Inc as a project manager in 1988 and currently has over 24 years' experience. He has been exposed to all aspects of field construction and has earned a high standard reputation in the industry and become well diversified as a project manager in landscape, golf and athletic field construction.

Jeff is the primary liaison between The LandTek Group and owners, architects and engineers on each project and is responsible for all construction projects awarded in New Jersey and Pennsylvania. His main duties include overseeing project supervisors, maintaining quality control, operating the day to day activities of multiple projects and handling all aspects of business development. Jeff's specific expertise is in golf course and athletic field construction and renovation.

Jeff has overseen over 80 projects and was responsible for managing over 100 projects including the field construction for Seton Hall University, Rider University and Montclair State University.

ANTHONY T. GUSMANO

SENIOR PROJECT MANAGER
SYNTHETIC DIVISION

Professional Profile Achievements:

- Jets/Giants Stadium– East Rutherford, NJ
- New York Jets Training Facility – Hofstra University
- Rutgers University – Newark, NJ
- New York Mets CitiField – Flushing Meadows, NY
- Stony Brook University – Stony Brook, NY
- Fordham University – Bronx, NY
- JFK Airport – Queens, NY
- LaGuardia Airport – Queens, NY
- Dowling College Brookhaven Campus – Shirley, NY
- Columbia University – New York, NY
- St. John's University – Queens, NY
- Chaminade High School – Mineola, NY
- Don Bosco Prep High School – Ramsey, NJ
- College of Staten Island – Staten Island, NY
- Manhattanville College – Purchase, NY
- Long Island University, C.W. Post Campus – Westbury, NY
- Wagner College – Staten Island, NY
- Aviator Sports Complex – Brooklyn, NY
- US Merchant Marine Academy – Kings Point, NY
- East Stroudsburg University – East Stroudsburg, PA

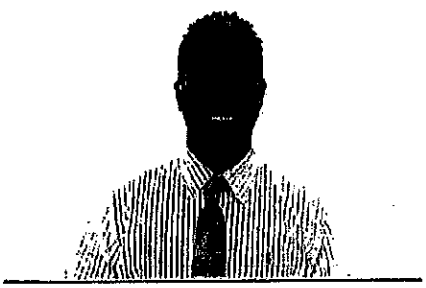
EXPERIENCE:

Anthony Gusmano, a highly motivated and skilled professional in project management and synthetic turf, has extensive leadership experience. An accomplished Project Manager, his capabilities have helped generate significant enhancements to the Synthetic Turf Division at The LandTek Group, Inc.

Since he started at LandTek in 2002, Anthony has supervised the installation of over 400 projects and his success is based on his natural ability to lead. In his role, Anthony's main duties include estimating projects, maintaining quality control; operate the day to day activities of multiple projects and schedule manpower of over 35 employees. As a key member of The LandTek team, he also assists in developing a safe work place. He is known for his strong work ethic and motivational skills.

STEVEN KUZMISKAS

PROJECT MANAGER



PROFESSIONAL PROFILE:

- Stony Brook University, Stony Brook, NY – South-P Lot
- Fordham University, Bronx, NY – Murphy Field
- Manhasset Valley Park, Manhasset, NY
- Connetquot High School, Bohemia, NY – Multi Purpose Field
- Citi Field, Flushing, NY
- New York Red Bulls, Harrison, NJ
- SUNY Farmingdale, Farmingdale, NY
- Stony Brook University, Joe Nathan Stadium, Stony Brook, NY
- Lakeland High School, Westchester County
- Ann Dorner Middle School in Westchester County
- City of Garfield Park, Garfield, NJ
- Walter Panas High School, Westchester County
- Various Projects for Brookhaven Township, Suffolk County, NY
- Plainedge Athletic Complex, Plainedge, NY
- Robbins Lane Community Park, Syosset, NY
- Cold Spring Harbor High School, Cold Spring Harbor, NY
- New Dorp High School, Staten Island, NY
- Parks in New York City, NY
- Freeport High School, Freeport, NY
- Town of Hempstead, NY
- Seaford High School, Seaford, NY
- Fordham University, Bronx, NY

EXPERIENCE:

Steven joined The LandTek Group in February 2002. He started his career at LandTek as a Project Superintendent of Field Construction and was responsible for the construction of various fields in school districts, NYC parks, universities and professional fields in the metropolitan area. As construction superintendent some of Stevens many responsibilities were project and site layout, laser grading operation, earth moving, site and storm drainage, building and utility construction. City Field, home of the New York Mets, and the New York Red Bulls are just a few of the projects Steven's knowledge and expertise have brought to completion.

Steven was promoted to project manager in 2011, bringing his 15 years of construction experience with him. Steven is responsible for managing the construction projects for Long Island, Connecticut, New York City, and Westchester. This role includes managing the site superintendents, project scheduling, logistics coordination and material purchasing.

Prior to Steven joining The LandTek Group he worked in the construction industry for a site development company. Steve attended college at SUNY Delhi in Delhi, NY.

PHILIP LAND, ESTIMATOR

ESTIMATOR

EDUCATION:

- Shelton State Community College – Tuscaloosa, AL
- Associate in Science with courses in calculus, modern graphics for engineers (AutoCAD 2007), microcomputer systems (Office 2003) and business communications

PROFESSIONAL CERTIFICATION:

- EPA/AHERA Asbestos Supervisor – Certified July 2004
- Associated General Contractors of America Birmingham, AL Office - Competent Person Training Course to meet OSHA's Excavation Standards, Soil Identification, Soil Analysis, Hazard Identification, Protective Systems and Trench Shoring. Oct 2003
- Trench Shoring Services Birmingham, AL Office - Competent Person Training Course to meet OSHA's Excavation Standards, Soil Identification, Soil Analysis, Hazard Identification, Protective Systems and Trench Shoring. Sept 2003

SOFTWARE:

- InSite
- AutoCAD
- B2W
- Carlson

EXPERIENCE:

Philip joined The LandTek Group in 2007 and brought with him over 12 years of experience in site development and athletic field construction. As LandTek's estimator, Philip is responsible for overseeing pricing and bidding aspects of construction projects, and often works directly with owners, architects, and engineers to value engineer projects. Philip also does design work on various projects.

As Estimator, Philip ensures that LandTek maintains the work volume to remain a leader in the sports field industry, and continues to diversify into other areas of construction as well. Some of Philip's project highlights include design work for Columbia University's softball & field hockey fields at Baker Field Sports Complex, Joe Nathan Field at Stony Brook University, and ongoing projects with the New York Red Bulls.

Before joining LandTek, Philip worked for H & W Construction in Northport, Alabama as project supervisor, and then project manager. Prior to that, Philip worked for the Earthwork Construction Company in Neosho, Missouri. Philip received an A.S. from Shelton State Community College in 2007.

The LandTek Group, Completed Job List

Job Name	Designed by The LandTek Group	Start Date	Total Contract	Completion Date	Job	Architect	Contact Name	Address	Number
55 Water Street		Jul-06	$124,250.00	Sep-06	Installation of Syunthetic Turf	Plaza Construction	Charles Uocifferi	260 Madison Avenue, New York, NY 10016	(212) 480-2799
Abington Area Community Park South Abington Township, PA		Oct-12	$406,344.00	Oct-13	Reduce field size, eartwork, drainage, and stone base	ELA Sport	Emiest J. Graham	743 South Broad St Lititz, PA17543	717-201-5334
Academy of Holy Angels		Jul-14	$275,499.44	Aug-14	Site Work	Neglia Engineering Associates		34 Park Ave PO Box 426 Lyndhurst, NJ 07071	(201) 939-8805
Adelphi University Garden City, NY Bob Conaghan		Jul-07	$1,349,628.00	Oct-07	Baseball Field Improvements, New Synthetic Turf	Fletcher Thompson	Curt Krushinsky	3 Corporate Drive Shelton, CT	203-225-6500
Adelphi University Baseball Field Garden City, NY	X	Nov-10	$826,525.00	Jun-11	Installation of New Synthetic Turf on Softball Field	Damon Douglas Co.	John Piccirillo	245 Birchwood Avenue Cranford, NJ 07016	908-272-0100
Adelphi University Stiles Field Garden City, NY		Aug-08	$998,000.00	Sep-08	Synthetic Turf @ Stiles Field & Practice field	Cannon Design	John Sobiecki	330 Broadway Albany, NY 12207	518-426-4502
The Agnes Irwin School Radnor Memorial Park Bryn Mawr, PA		Feb-12	$804,846.00	Apr-12	Synthetic Turf Field at Radnor Memorial Park	ELA Sport	Chuck Haley	743 So.Broad St., Lititz, PA 17543	717-626-7271
Agnes Irwin School Rosemont, PA 19010		Jun-13	$593,480.00	Oct-13	Site Work	Chambers Associates, Inc		2962 Skippack Pike PO Box 678 Worcester, PA 19490	(484) 991-8187
Albany Avenue/ Woodward Parkway Farmingdale, NY		Aug-06	$112,360.00	Dec-06	Renovation of Baseball Fields, Site Work	JAG Architect	Christopher Hunt	1213 Main Street Port Jefferson, NY 11777	631-476-2161
Allen Park Farmingdale, NY	X	Oct-06	$637,750.00	Dec-06	F/I Synthetic Field w/Drainage	Cameron Engineering	Leonard LaSala	3 Aerial Way Suite 100 Syosset, NY 11790	516-827-4900
Alexander Field River Vale NJ		Jul-11	$1,301,965.28	Feb-12	Alexander Field Improvement Project	Christopher Statile, PA	Joel Minch	3 Fir Court Oakland, NJ 07436	201-337-7470
Andrews Air Force Base		Dec-11	$246,155.42	Jun-12	Construction of RunningTrack	NICCjv, LLC	Michael Hunt	100 No. Washington St. Suite 210 Falls Church,VA 22046	204-244-1755
Andrews Road Field Hicksville, NY	X	Apr-06	$1,015,678.68	Aug-06	F/I Synthetic Field w/Drainage	Cameron Engineering	Leonard LaSala	3 Aerial Way Suite 100 Syosset, NY 11790	516-827-4900
Anne M. Dorner Middle School		Nov-05	$2,601,900.00	Nov-06	Renovation to Lower Field	Fuller & D'Angelo	Nicholas D'Angelo	45 Knollwood Road, Elmsford, NY 10562	914-592-4444
Asphalt Green, Inc. NY, NY		Feb-09	$2,948,636.50	June-09	Renovation of Outdoors Playing Fields	Cameron Engineering	John Gursky	3 Aerial Way Suite 100 Syosset, NY 11790	516-827-4900

The LandTek Group, Inc. Completed Job List

Job Name	Designed by The LandTek Group	Start Date	Total Contract	Completion Date	Job	Architect	Contact Name	Address	Number
Atlantic Avenue Park East Moriches, NY	X	Apr-10	$173,518.78	June-10	Installation of Synthetic Turf Field	N/A	Ed Morris	Town of Brookhaven 1130 Old Town Road Coram, NY 11727	631-451-6199
Atlantic City HS Atlantic City, NJ 07055		Jul-13	$719,947.05	September-13	Site Work	ELA Sport	Ernest Graham	743 S Broad St Lititz, Pa 17543	717.201.5334
Avalon Pines Natural Grass Baseball Fields Coram, NY	X	Jun-06	$95,533.20	Sep-06	Install Two Natural Grass Baseball Fields	n/a	Matt Rocchio	1130 Old Town Rd. Coram, NY 11727	631-451-6199
Avalon Pines Synthetic Turf Coram, NY	X	Jun-06	$942,849.00	Sep-06	F/I Synthetic Field w/Drainage	n/a	Matt Rocchio	1130 Old Town Rd. Coram, NY 11727	631-451-6199
Aviator Sports Complex Floyd Bennett Field Brooklyn, NY		Mar-07	$1,693,700.00	Jun-07	F/I Synthetic Field w/Drainage	Iannelli Construction	Tom Iannelli	9723 Third Ave. Brooklyn, NY 11209	718-836-2000
BCTS - Hackensack Campus		Jul-06	$127,800.00	Aug-06	Renovate Softball and Baseball Field	N/A	Robert Csigi	325 E. Ridgewood Avenue Paramus, NJ	(201) 343-6000
Baseball Heaven Yaphank, NY		Feb-10	$195,000.00	Mar-10	Install 2" FieldTurf on Field #1	N/A	Paul Gibson	20 Old Dock Road Yaphank, NY 11980	631-205-5109
Baseball Heaven Yaphank, NY	X	Dec-12	$191,000.00	Dec-12	Install FieldTurf - 2" Iron Blade	N/A	Frank Zitaglio	350 Sills Road Yaphank, NY 11980	631-205-5109
Bay Shore High School Bay Shore, NY		Dec-07	$2,394,600.00	May-08	Athletic Field Reconstruction	BBS	Joseph Rettig	244 E. Main Street Patchogue, NY	631-475-0349
Beach Channel HS Rockaway Park, NY		Aug-06	$367,000.00	Jan-06	Athletic Field Renovation	TDX Construction	Jaio Maraj	100-00 Beach Channel Dr Far Rockaway, NY 11694	212-279-1983
Beach Channel HS Rockaway Park, NY		Jul-14	$556,212.00	Aug-14	Synthetic Turf Installation	Semmens Associates	George Semmens	358 Saw Mill Road Millwood, NY 10546	(914) 762-2340
Beach Park Ballfields Port Washington, NY		Mar-12	$528,977.00	Jun-12	Installation of Synthetic Turf Field	H2M Group	Mike Keffer	575 Broadhollow Road Melville, NY 11746	631-756-8000
Bellmore - Site Work Mepham High School		Sep-06	$117,000.00	Oct-06	Site Work & Bleacher Replacement	BBS	Ira Bernson	244 East Main Street Patchogue, NY 11772	631-475-0349
Bellmore - Site Work & Track Merrick Ave. M.S.		Aug-06	$305,000.00	Dec-06	Site Work & Running Track Replacement	BBS	Ira Bernson	244 East Main Street Patchogue, NY 11772	631-475-0349
Bellmore-Merrick CHSD		Nov-06	$150,900.00	Jun-06	Renovation of athletic fields at Kennedy & Mepham HS	N/A	Jack Dziedzic	1260 Meadowbrook Rd Merrick, NY 11566	(516) 623-8900
Bellmore-Merrick CHSD Grand Ave. M.S. Bellmore, NY		May-05	$78,000.00	Sep-06	Replace Main Office Apron	BBS Architects	Joseph Rettig	244 E. Main St. Patchogue, NY 11772	631-475-0349

The LandTek Group, Completed Job List

Job Name	Designed by The LandTek Group	Start Date	Total Contract	Completion Date	Job	Architect	Contact Name	Address	Number
Bellmore-Merrick CHSD JFK H.S. Bellmore, NY		May-05	$320,000.00	Sep-95	Sidewalk, Curbs & Tennis Court Replacement	BBS Architects	Joseph Rettig	244 E. Main St. Patchogue, NY 11772	631-475-0349
Bellport HS Bellport, NY		Oct-08	$980,000.00	Jul-09	Athletic Field Reconstruction	Wiedersum Associates	Richard Wiedersum	104 Adams Avenue Hauppague, NY 11788	631-434-7900
Bellport HS Bellport NY		Jul-10	$1,493,523.34	Sep-11	Installation of New Synthetic Field	Wiedersum Associates	Richard Wiedersum	104 Adams Avenue Hauppague, NY 11788	631-434-7900
Bellport Middle School Bellport, NY		Jun-11	$304,300.00	Aug-12	Corrective Work - Site Work	Weidersum Associates	Stefan Reiss	140 Adams Ave. Suite B14 Hauppauge, NY 11788	631-434-7900
Belmont Oval Park (a/k/a La Faso Memorial Park), Garfield, New Jersey		Sep-06	$2,084,110.55	Mar-07	Synthetic Turf, Lighting, Restroom Facility & Parking Lot Improvements	Boswell McClave Engineering	Michael Nannini	330 Phillips Avenue PO Box 3152 South Hackensack, NJ 07606	201-641-0770
Bende Park		Feb-07	$670,058.27	Jun-07	Athletic/Synthetic Field	Environmental Resolutions	Thomas Miller	525 Fellowship Road suite 300 Mount Laurel NJ 08054	856-235-7170
Berner Middle School Massapequa, NY		Nov-07	$336,000.00	Jan-08	New Baseball Field	Wiedersum Associates	Rick Wiedersum	200 Motor Parkway Hauppauge, NY	631-434-7900
Berwick Area High School Berwich, NJ		May-10	$131,000.00	Jun-10	Construction Work for Synthetic Turf Field	ELA Group		1100 Fowler ave berwick pa 18603	
Bethpage - Kramer Lane		Nov-06	$391,287.00	Apr-06	Site Improvement	SCC	Vincenzo Russo	50 Carlough Road Bohemia, NY	(631) 567-0200
Birchwood Park Deer Park, NY	X	Aug-06	$596,414.00	Sep-06	F/I Synthetic Field w/Drainage	Town of Babylon	Frank Bacherty	Town of Babylon 200 E. Sunrise Hwy Lindenhurst, NY 11757	631-893-2120
Blind Brook Middle School/High School		Oct-05	$3,424,281.00	Jun-07	Synthetic Turf Fields	Anderson La Rocca Anderson Haynes	Frankie Cheung	22 Purchase Street Rye, NY 10580	914-967-3494
Bloomingdale Park Staten Island		Dec-08	$224,700.00	Dec-07	Synthetic Turf Field	Sal Ton Landscaping		880 Annadale Road Staten Island, NY	718-967-1695
Bloomsburg University Bloomsburgh PA		May-14	$583,450.00	Jul-14	Turf Replacement	Lason Design Group, Inc.		1000 Commerce Park Dr. Suite 201 Williamsport, PA 17703	(570) 389-4311
Blue Point Park Bluepoint, NY	X	Oct-08	$126,652.00	Dec-08	Renovate Little League Field	n/a	Tom Owens	1130 Old Town Rd. Coram, NY 11727	631-451-6133

The LandTek Group, Inc. Completed Job List

Job Name	Designed by The LandTek Group	Start Date	Total Contract	Completion Date	Job	Architect	Contact Name	Address	Number
Bound Brook HS LaMonte Field Bound Brook, NJ		Sep-10	$966,037.08	Aug-11	Improvements to LaMonte Field @ Bound Brook HS for Bound Brook SD borough of Bound Brook NJ contract #10011	Somerset County Engineers	Tricia Smith	County of Somerset 20 Grove St PO Box 3000 Somerville NJ 08876	908-231-7175
Boverini Stadium Passic NJ BOE		7-12	$5,121,306.44	Jan-14	Boverini Stadium Rehab; Upgrade & Repair	Suburban Consulting Eng	Daren Phil	100 Valley Road Suite 202 Mount Arlington, NJ 07856	(973) 398-1776
Bower Elementary School Lindenhurst, NY		Apr-08	$352,345.00	Sept-08	Athletic Field Reconstruction	John A. Grillo Architects	John Grillo Jr.	1213 Main Street Port Jefferson, NY 11777	631-476-2161
Boys & Girls HS		Mar-06	$410,000.00	Apr-06	Remove & Reinstall Turf	TDX Construction	Jaio Maraj	1700 Fulton St Brooklyn, NY 11213	(212) 279-1981
Boys & Girls High School		10-13	$1,126,610.00	12/13	Removal & Reinstallation of Synthetic Turf Field	TDX Construction		30-30 Thompson Avenue Long Island City, NY	
Branch Brook Park Newark, NJ		Mar-09	$869,871.82	Jul-09	Football/Soccer Field Improvements	County of Essex	Leonard Sorge	465 Dr. Martin Luther King Blvd Newark, NJ 07102	9736215103
Brentwood State Park Brentwood, NY		Jul-06	$7,761,267.00	Sep-09	Construction of Athletic Field Complex - Phase I	n/a	Scott Fish	NYS Office of Parks, Recreation & Historic Preservation PO Box 247 Babylon, NY 11702	631-321-3544
Bridgewater Baseball Bridgewater, NJ 08807		Apr-14	$282,950.00	Apr-14	Baseball Field Improvements	Suburban Consulting Eng	Daren Phil	100 Valley Road Suite 202 Mount Arlington, NJ 07856	(973) 398-1776
Bridgewater Municipal Complex Bridgewater, NJ		Aug-11	$944,300.00	Dec-11	Athletic Field Improvement	PS&S Integrating Design & Engineering	Kevin Thomas	67B Mountain Blvd. Warren, NJ 07059	732-560-9700
Bronx Academy New York		Nov-07	$137,700.00	Nov-07	Install Synthetic Turf	William A. Gross Construction Associates	Mark Gross	117 South 4th Street New Hyde Park, NY 11040	516-437-0909
Brooklyn Ave. School Valley Stream, NY	X	Sep-06	$114,338.00	Oct-06	Installation of FieldTurf	n/a	Daniel Onorato	Valley Stream UFSD #24 75 Horton Ave Valley Stream, NY 11581	516-256-0150
Brooklyn Community H.S. Brooklyn, NY		10/11	$136,916.00	12/11	Track Install	Abel Bainnson Butz, LLP		60 8th Ave Suite 1105 New York NY 10011	212-206-0630

The LandTek Group, Completed Job List

Job Name	Designed by The LandTek Group	Start Date	Total Contract	Completion Date	Job	Architect	Contact Name	Address	Number
Brooklyn Cyclones MCU Park Brooklyn, NY	X	Apr-13	$1,039,755.00	May-13	Conversion from Natural Grass to Synthetic Turf	NY Mets	Eric Saretsky	CitiField Roosevelt Avenue Flushing, NY	718-603-4041
Butler Field		Mar-06	$784,940.00	Aug-06	Butler Field Synthetic Turf Field	Butler Field Synthetic Turf Field	Bob Reiter	566 Warburton Avenue Hastings-on-Hudson, NY 10706	914-478-3677
Calverton National Cemetery Calverton, NY		Apr-11	$460,863.00	Nov-11	Renovate & Re-establish Turf with Sod	ERSI, LLC	AJ Lucas	51 Halada Drive Lake George, NY 12845	585-730-8290
Canarsie High School		Jun-06	$305,298.00	Jul-06	Synthetic Turf Athletic Field	TDX Construction Corp.	Ed Dillon	345 7th Avenue New York, NY 10001	212-279-1981
Cantiague Park Hicksville, NY		May-11	$1,268,029.17	Nov-11	Installation of New Synthetic Field	Nassau County DPW	Richard Millet	Nassau County DPW 1194 Propect Avenue Westbury, NY 11590	516-571-9608
Cedar Grove W. Bradford, NJ		Dec-09	$989,131.00	Oct-10	Construction of New Synthetic Turf SB Field	Petry Engineering	Alex Palumbo - Twp Eng	525 Pompton Ave Cedar Grove NJ 07009	9732391410 x280
Central Avenue Orange, NJ 07050		Oct-13	$1,402,057.78	Jul-14	Baseball Field Improvements	Remington, Vernick & Arango	Jacqueline Foushee	300 Penhorn Ave Secaucus, NJ 07094	(201) 624-2137
Centre Island Beach Bayville, NY		Jul-11	$97,110.00	Aug-11	F/I FieldTurf Along Outside Perimeter of Field	Town of Oyster Bay	John Tassone	150 Miller Place Syosset, NY 11791	516-677-5810
Centereach H.S. Centereach, NY	X	Jul-06	$949,357.00	Dec-06	F/I Synthetic Field w/Drainage & Reconstruct Baseball Field	Wiedersum Associates	Richard Wiedersum	200 Motor Parkway Hauppauge, NY	631-434-7900
Centereach Park Centereach, NY	X	May-09	$995,592.20	Jul-09	Reconstruction of Athletic Field	N/A	Edward Morris	Town of Brookhaven 1130 Old Town Road Coram, NY 11727	631-451-6199
Charles Park Metchun, NJ		Nov-10	$1,059,964.00	Apr-12	Open space program synthetic turf field improvements at Charles Park	Birdsall SVS Group	Kathleen Elliot	611 Industrial Way W Eastontown,NJ 07724	732-380-1700 x1247
Centre Island Park Oyster Bay, NY		Jul-08	$933,904.60	Mar-09	Installation of Synthetic Turf Field	Lucchesi Engineering	Michael Mark	268 North Broadway Hicksville, NY 11801	516-942-3772
Chaminade H.S. Minneola, NY		Jul-06	$183,122.40	Oct-06	Install Synthetic Field	N/A	Father James Williams	340 Jackson Ave. Minneola, NY 11501	(516) 742-5555
Chatham SC		Jun-06	$165,000.00	Feb-06	Turf Soccer Field & Drainage	N/A	Vincent Yaniro	54 Fairmont Ave Chatham, NJ 07928	(973) 635-7542

The LandTek Group, Inc. Completed Job List

Job Name	Designed by The LandTek Group	Start Date	Total Contract	Completion Date	Job	Architect	Contact Name	Address	Number
Chelsea Park New York, NY		Mar-11	$478,405.50	Jun-11	Installation of synthetic turf field	Restani Construction		42-04 Berrian Boulevard, Astoria, NY	718-725-0879
Citi Field New York Mets New Stadium Flushing, NY		Aug-08	$2,226,845.00	Apr-09	Playing Field @ New NY Mets Stadium	Hunt/Bovis Lend Lease Appliance II	Eric Saretsky Sterling Equities	NY Mets New Stadium Project 126-02 Northern Blvd. Flushing, NY 11368	718-803-4041
City of Newburgh		Mar-00	$117,750.00	Aug-00	Baseball Field Reconstruction	N/A	Harold Porr City Manager	83 Broadway Newburgh, NY 12550	914-569-7301
Clarkstown High School		Aug-08	$656,937.00	Oct-2008	Installation of Synthetic Turf Field	ETRE Construction	Sarah Norris	567 5th Avenue New Rochelle, NY	914-654-1060
Cliffside Park BOE		Jun-06	$1,220,350.00	Jul-06	Athletic Field Renovation	N/A	Robert Paladino Super.	525 Palisade Ave Cliffside, NJ 07010	(201) 313-2300
Cold Spring Harbor High School Cold Spring Harbor, NY		Nov-08	$1,854,564.00	Jul-09	Athletic Field Reconstruction	John A. Grillo Architects	John Grillo Jr.	1213 Main Street Port Jefferson, NY 11777	631-476-2161
Cold Spring Harbor HS Cold Spring Harbor, NY		Jul-13	$428,000.00	Aug-13	Synthetic Turf Field Replacement	John A. Grillo Architects, PC	John Grillo Jr.	1213 Main Street Port Jefferson, NY 11777	631-476-2161
College of Staten Island	X	Sep-06	$868,640.00	Nov-06	Installation of Synthetic Turf on Soccer Field & Softball Field	N/A	Angelo Aponte	College of S.I. 2800 Victory Blvd. Staten Island, NY 10314	(718) 982-2240
Columbia University Baseball Field New York, NY		Sep-07	$1,018,756.08	Dec-07	Remove Natural Grass Field & Replace with Synthetic Turf @ Andy Coakley Field	Cannon Design	John Major	330 Broadway Albany, NY	518-426-4502
Columbia University Soccer Field New York, NY		Jun-07	$909,314.93	Aug-07	Remove Natural Grass Field & Replace with Synthetic Turf @ Baker Field	Cannon Design	John Major	330 Broadway Albany, NY	518-426-4502
Columbia University Baker Field New York, NY 10034	X	Jun-10	$2,837,308.50	Sep-10	Reconstruction of Softball & Field Hockey Fields	N/A	Ruth Shragowitz	Columbia University 410 W. 118th Street New York, NY 10027	212-854-5679
Columbus Park Ryan Avenue Port Chester, NY		Aug-07	$271,937.25	Oct-07	Installation of Synthetic Turf for Soccer Field	Etre Associates	Tony Silva	567 5th Ave New Rochelle, NY 10801	(914) 654-1060
Commack HS Commack, NY		Oct-06	$781,900.00	Jan-07	Athletic Field Reconstruction with Installation of Synthetic Turf	Burton, Behrendt & Smith PC	Joe Rettig	244 East Main St. Patchogue, NY 11772	631-475-0349
Comsewogue UFSD		Jul-06	$2,656,884.99	Oct-06	Synthetic Turf/Site Improvements	J.A. Grillo Architect	John Grillo Jr.	1213 Main Street Port Jefferson, NY 11777	631-476-2161

Job Name	Designed by The LandTek Group	Start Date	Total Contract	Completion Date	Job	Architect	Contact Name	Address	Number
Coney Island Recreational Area		Feb-06	$1,317,500.00	Jul-06	Construction Of Athletic Field, General Construction & Site Work	Turner Construction	Mike Reed	1901 Surf Ave. Brooklyn, NY 11224	(718) 449-4752
Connetquot High School Bohemia, NY			$2,692,727.43	Aug-13	Ste Work - Construction of Two Synthetic Turf Fields	Weidersum Associates	Mike Torti	140 Adams Ave. Suite B14 Hauppauge, NY 11788	631-434-7900
Copiague H.S. Contract #2	X	Jun-06	$63,000.00	Oct-06	Athletic Field Construction & Irrigation	J.A. Grillo Architect	John Grillo Jr.	1213 Main Street Port Jefferson, NY 11777	631-476-2161
Copiague High School		Jun-06	$1,330,000.00	Sep-06	Synthetic Turf Installation, Running Track & Field Events, Goal Posts	JAG Architect	John Grillo Jr.	1213 Main Street Port Jefferson, NY 11777	631-476-2161
Corcoran High School		Jun-06	$101,489.64	Oct-06	76,308 sq. ft. FTOS1-F Synthetic Turf	N/A	Kevin Reynolds	FieldTurf 8088 Montview Montreal, Quebec, Canada	(514) 340-9311
Cottage Lane Elementary		Nov-06	$122,757.00	Dec-06	Upgrade Existing Site Drainage and Parking Lot Reconstruction	Fourmen Construction	Bob Seckler	1134 Main Street Blauvelt, NY 10913	845-398-0620
Cow Neck Polo Fields Southampton, NY		Sep-06	$882,727.50	Apr-07	Installation of Under Field Drainage System	N/A	Tom Por	Belvadere Property Management 21151 Avenue of the Americas New York, NY 10020	516-587-4544
Cow Neck Polo Fields Practice Southampton, NY		Sep-10	$130,750.00	Nov-10	Installation of Under Field Drainage System	N/A	Nick Dawson	Belvadere Property Management 21151 Avenue of the Americas New York, NY 10020	516-587-4544
Crestwood High School		Sep-06	$645,599.50	Nov-06	Install Artificial Playing Field	Peters Design Group	Robert Nitch	301 North Main St. Scranton, PA 18504	570-346-8446
Crestwood High School		Sep-06	$275,000.00	Apr-06	Running Track	Peters Design Group	Robert Nitch	301 North Main Street Scranton, PA 18504	570-346-8446
CUNY Queens College Flushing, NY		Sep-07	$938,315.23	Nov-08	Track & Field Rehabilitation	N/A	Douglas Schneider	CUNY 555 57th Street New York, NY 10019	212-541-0394

The LandTek Group, Inc. Completed Job List

Job Name	Designed by The LandTek Group	Start Date	Total Contract	Completion Date	Job	Architect	Contact Name	Address	Number
Daniel Boone Area SD 321 N. Furnace Street Birdsboro, PA 19505		Apr-10	$2,427,050.00	Sep-10	New Athletic and Extracirricular Stadium	Architerra PC	David Horn	205 N Main St Coopersburg PA 18036	5102821398
Dean G. Skelos Field Rockville Centre, NY	X	Nov-06	$1,328,104.93	Apr-06	F/I Two Synthetic Fields w/Drainage	N/A	Ron Wasson	Village of Rockville Ctr Village Hall One College Pl Rockville Centre, NY	516-678-9212
Deer Park High School Deer Park, NY		Jul-14	$138,000.00	Jul-14	Site Work Reconstruction	John A. Grillo Architect PC	John M. Grillo	1213 Main Street Port Jefferson, NY 11777	(631) 476-2161
Defense Hill Shoreham, NY	X	Sep-08	$225,046.02	Oct-08	Installation of 60 ft. Baseball Field & T-Ball Field	N/A	Matt Rocchio	1130 Old Town Rd. Coram, NY 11727	631-451-6199
Depkin Field Hasbrouck Heights, NJ		Jun-07	$1,443,677.78	Oct-07	Improvements of Depkin Field	Job and Job	Kenneth Job	108 Hudson Street Hackensack NJ 07601	201-487-8754
Division High School Levittown, NY		Jun-08	$993,504.17	Aug-08	Installation of Synthetic Turf Field	John A. Grillo Architects	John Grillo Jr.	1213 Main Street Port Jefferson, NY 11777	631-476-2161
Don Bosco		Jun-06	$118,392.50	Aug-06	Install Artificial Playing Field	N/A	Kevin Reynolds	FieldTurf 8088 Montview Montreal, Quebec, Canada	(514) 340-9311
Dowling College Brookhaven Campus Shirley, NY		Jan-07	$9,846,480.37	Jul-08	Construction of New Athletic Facility at Dowling College - Clearing 35 Acres of Land, Furnish and Install Numerous Synthetic and Natural Grass Fields, Bleachers, Pressbox, Scoreboard	L.K. McLean Associates	Frederick Ernst	437 South Country Rd Brookhaven, NY 11719	631-286-8668
Dover High School Dover NJ		Oct-08	$694,969.60	Jun-09	Reconfiguration of Varsity Baseball Field	CMX Associated	Joseph May	20 Waterview Blvd. Parsippany, NJ 07054	973-299-7970
Drew University Madison, NJ		May-11	$596,545.00	Aug-11	Replace existing turf field	Maser Consulting	Carl O'Brien	200 Valley Road, Ste. 400 Mt. Arlington, NJ 07856	973-398-3110 x104
Dwayne Harris Memorial Atlantic City, NJ		Mar-10	$369,640.00	May-10	Athlectic Field Renovations	City of Atlantic City	J. Fealtheller	1301 Bacharach Blvd. Atlantic City, NJ 08401	609-347-5360

The LandTek Group, Completed Job List

Job Name	Designed by The LandTek Group	Start Date	Total Contract	Completion Date	Job	Architect	Contact Name	Address	Number
Dwight Morrow High School Englewood, NJ		Jul-08	$1,239,590.00	Apr-09	Installation of Synthetic Field with Underfield Drainage	Englewood BOE	Michel Hunken	12 Tenafly Road Englewood, NJ	201-862-6202
Dwayne Harris Mem Field Atlantic City, NJ		May-10	$363,590.00	Jun-10	Phase 1 BB Field	City of Atlantic City Engineering Div	Bob Preston	1301 Bacharch Blvd Atlantic city NJ 08401	609-347-5360
Earl L. Vandermeulen High School Port Jefferson, NY		Jul-08	$163,400.00	Nov-2008	Athletic Field Reconstruction	John A. Grillo Architects	John M. Grillo	1213 Main Street Port Jefferson, NY 11777	631-476-2161
East Brunswick HS East Brunswick NJ		Nov-07	$422,924.53	Nov-07	Synthetic Turf improvements	N/A		2050 Route 206 Vincetown NJ 08008	609 859 1414
East County Reserve		Sep-05	$957,049.00	Apr-06	Athletic Field & Synthetic Turf Installation	T&M Associates		11 Tindall Road, Middletown, NJ 07748	732-671-6400
Eastern York Wrightsville, PA 17368		May-13	$780,400.00	Sep-13	Synthetic Turf & Track Renovation	ELA Sport		743 South Broad Street Lititz, PA 17543	(717) 626-7271
East Hampton HS East Hampton, NY Phase I & Phase II		Jan-07	$1,794,805.00	Jun-07	Install New Synthetic Field Plus 6-Lane Running Track and Asphalt Walkways	BHA Architects	Matthew Antonucci	127 E. Main Street Riverhead, NY 11901	631-208-9655
Eastern Camden Regional High School		Oct-06	$1,024,864.00	Jan-07	New Synthetic turf for Lacrosse and Baseball fields	The Gibson Tarquini Group Inc.	Massoud Mohadjeri	1812 Federal Street Camden NJ 08105	856-365-7270
Eastern Camden Regional HS		Jul-06	$1,020,864.00	Sep-06	Synthetic Turf Football Field	Gibson Tarquini Group	Massoud Mohadjeri	1812 Federal Street Camden, NJ 08105	856-365-7270
East Meadow HS Track East Meadow, NY		Jul-09	$197,637.00	Oct-09	Reconstruction of High School Track	N/A	Patrick Pizzo	East Meadow UFSD 718 the Plain Road East Meadow, NY 11590	516-748-5509
Eastport Athletic Complex Eastport, NY	X	Aug-13	$593,810.50	12/13	Install of Baseball Fields	Town of Brookhaven	Ed Morris	286 Hawkins Road Centereach, NY 11720	(631) 451-6133
Eastport Athletic Complex Phase II Eastport, NY		Apr-14	$859,322.12	14-Jul	Installation of Synthetic Turf Athletic Field	Town of Brookhaven	Ed Morris	286 Hawkins Road Centereach, NY 11720	(631) 451-6133
East Rockaway H.S. East Rockaway, NY.		Oct-07	$648,700.00	Apr-08	Athletic Field Reconstruction	John A. Grillo Architects	John Grillo, Jr.	1213 Main Street Port Jefferson, NY 11777	631-476-2161
Elizabeth Board of Education Elizabeth, NJ		Apr-12	$1,458,700.00	Oct-12	Installation of Synthetic Turf Fields	Watts Consulting, LLC	Bob Watts	16 Holiday Hill Road Endicott, NY 13760	607-427-5167
Elizabethtown Elizabethtown, PA 17022		May-13	$3,381,162.49	Dec-14	Campus Athletic Facilities Improvements	Crabtree, Rohrbaugh & Assocaites Architects		401 East Winding Hill Road Mechanicsburg, PA 17055	(717) 458-0272

The LandTek Group, Inc. Completed Job List

Job Name	Designed by The LandTek Group	Start Date	Total Contract	Completion Date	Job	Architect	Contact Name	Address	Number
Elwood - John Glenn H.S.	X	Jan-06	$39,450.00	Mar-06	Installation of 8" ADS Drainage Pipe for Entire Perimeter of Warning Track	N/A	Mike Butler	Elwood UFSD 100 Kenneth Ave Greenlawn, NY 11740	631-266-5426
Eisenhower Park East Meadow, NY		May-11	$825,384.75	12/11	Accessible Playground at Eisenhower Park	Ward Associates	Curt Coronato	1500 Lakeland Avenue, Bohemia, NY 11716	631-563-4800
English Neighborhood Park		May-06	$949,480.83	Sep-06	Synthetic Turf Installation, Softball & Baseball Fields, Acrylic Basket Ball Surface, New Sports Lighting, Surveillance Camera Installation	Boswell McClave Engineering	Michael Nannini	330 Phillips Ave. S. Hackensack, NJ	201-641-0770
EPCAL Recreational Facility Calverton, NY		Jun-12	$463,311.95	Apr-13	Ballfield Improvements	The Raynor Group	Vincent Gaudiello	860 Montauk Highway Water Mill, NY 11976	631-726-7600
Ephrata Area SD Ephrata, PA		Apr-11	$960,340.00	Nov-11	Multi-Purpose Field Improvement Project	ELA Sport	Chuck Haley	2013 Sandy Drive Suite 103 State College, PA 16803	717-201-2037
Evesham Township Marlton, NJ		Aug-09	$1,536,992.50	Nov-09	Installation of multi purpose field and drainage improvements	CME Assoc	Gary Reed	1460 Rte 9S Howell NJ 07731	973 338 9100
Ewing High School Ewing, N.J.		May-08	$876,740.10	Aug-08	Athletic Field Improvements	Maser Consulting	Carl O'Brien	200 Valley Road Suite 306 Mt.Arlington, NJ 07856	
Fair Lawn- Vander Plaat Field		May-09	$787,200.00	Aug-09	Synthetic Turf field	Borough of Fair Lawn	Kenneth Garrison	8-01 Fair Lawn Avenue Fair Lawn NJ 07410	
Falls Church Falls Church, PA		May-13	$1,337,977.39	Oct-13	Synthetic Turf Field Install	Burgess & Niple		4160 Pleasant Valley Road	(571) 423-2213
Far Rockaway HS		Feb-06	$310,000.00	Dec-06	New Synthetic Field	TDX Construction	Ed Dillon	25-65 Cornaga Ave Far Rockaway, NY 11691	(212) 279-1981
Farmingdale State College Farmingdale, NY		Apr-08	$1,932,000.00	Dec-08	Track & Field Stadium	HMH Site & Sports Design	Scott Hughes	155 Brown Road Groton, NY 13073	607-277-4000
Farmingdale UFSD		Apr-06	$765,600.00	Mar-06	New Athletic Field, Track & Drainage System	N/A	Dr. Fanning	VanCott Ave Farmingdale, NY 11572	(516) 752-6510
Farmingdale HS Farmingdale, NY		Jul-09	$745,000.00	Aug-09	Athletic Field Reconstruction	BBS Architects	Joe Rettig	244 E. Main St. Patchogue, NY 11772	631-475-0349
FC Harlem New York, NY	X	Sep-11	$208,175.00	Nov-11	Furnish & Install FieldTurf Field	CHA Consulting	John Hickok	111 Winners Circle Albany, NY 12205	518-453-4500

The LandTek Group, Completed Job List

Job Name	Designed by The LandTek Group	Start Date	Total Contract	Completion Date	Job	Architect	Contact Name	Address	Number
Field of Dreams Massapequa, NY		Jun-08	$1,605,053.80	Sep-08	Installation of Three Synthetic Turf Fields with Underfield Drainage	LIRO Engineers		Three Aerial Way Syosset, NY 11791	516-938-5476
Fireman's Park Ridge, NY	X	Oct-08	$23,037.50	Nov-08	Convert 90' Baseball Field into Synthetic Turf	N/A	Tom Owens	1130 Old Town Rd. Coram, NY 11727	631-451-6133
Flint Park, Larchmont, NY		May-08	$344,400.00	May-08	Flint Park Improvements	DeRosa Tennis Contractors	Mike Valentine	PO Box 430 Mamaroneck, NY 10543	914-698-2404
Fordham Preparatory School Bronx, NY		May-14	$373,150.00	Aug-14	Athletic Field Reconstruction	John Meyer Consulting PC	David Lombardi	120 Bedford Road Armonk, NY 10504	(914) 273-5225
Fordham University Bronx, NY		May-06	$266,190.19	Aug-06	Installation of Synthetic Turf Multi-Purpose Athletic Field	N/A	Kevin Reynolds	8088 Mountview, TMR, Montreal, Quebec H4P 2L7	(800) 724-2969
Forest City Park Wantagh, NY		Mar-14	$469,516.25	Aug-14	Concrete / Paving / Grading / Landscaping	Town of Hempstead	Glen Greco	200 N. Franklin Street Hempstead, NY 11550	(516) 292-9000
Freeport High School Freeport, NY		Jun-12	$1,568,789.39	Apr-13	Athletic Field Reconstruction Work	BJLJ Engineers	Tom Petersen	393 Jericho Turnpike Mineola, NY 11501	516-741-2222
French School Mamaroneck, NY		Aug-07	$100,000.00	Sep-07	Installation of Synthetic Turf Field	Peter Gisolfi Associates	Angelo Pugliese @ DeRosa Tennis Constractors, Inc.	438 Center Avenue Mamaroneck, NY 10543	914-698-2404
Frostburg State University	X	May-06	$69,500.00	Oct-06	Field Improvements	N/A	John Brewer	101 Broadway Rd Frostburg, MD 21532	(301) 687-4895
Garden City Middle School Garden City, NY		May-07	$974,000.00	12-07	Athletic Field Improvements	Lucchesi Engineering PC		268 N. Broadway Hicksville, NY 11801	516-942-3772
Garden City H.S. Garden City, NY	X	Jul-06	$914,020.00	Sep-06	F/I Synthetic Field w/Drainage	Luchesi Engineering	Joe Lucchesi	268 N. Broadway Hicksville, NY 11801	516-942-3772
Garden City Inc, St. Paul's		May-06	$597,420.00	Dec-06	Open Space Improvements	A. James DeBruin & Sons	Steve Rimkunas	11 Union Ave. Bethpage, NY 11714	516-579-2574
Garden City Park School Garden City Park, NY		Sep-06	$228,000.00	Nov-06	Athletic Field Construction	J.A. Grillo Architect	John Grillo Jr.	1213 Main Street Port Jefferson, NY 11777	631-476-2161
Garden City Sports Complex	X	Apr-06	$375,050.00	May-06	Grading, Seeding, Drainage, Tree Work & Steps Down into Field	N/A	John Powell	56 Cathedral Ave Garden City, NY 11530	516-2943010

The LandTek Group, Inc. Completed Job List

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Giants Stadium		May-07	$71,362.49	May-07	Rip up Existing Synthetic Turf Field and Install New Synthetic Turf	N/A	Kevin Reynolds @ FieldTurf USA	8088 Montview, TMR Montreal, Quebec H4P 2L7 Canada	1 (800) 724-2969
Glenfield Park Montclair, NJ		Jul-09	$884,820.00	Nov-09	Rehabilitation of Athletic Fields	Dewberry-Goodkind Inc	John Yakimik	200 Broadacres Dr 4th fl Bloomfield NJ 07003	973 338 9100
Glen Head School Glen Cove, NY	X	Nov-06	$297,033.00	Jun-06	Drainage, Softball Field, & Grading, Seeding & Topsoil	N/A	Richard Kavanaugh	North Shore CSD 112 Franklin Avenue Seacliff, NY 11579	516-705-0363
Grand Street Campus		May-06	$34,992.56	May-06	Synthetic Turf Field	TDX	Ed Dillon	345 Seventh Avenue NY NY	(212) 279-1981
Granny Road Park Gordon Heights, NY		Jul-11	$966,498.90	Oct-11	Ahtletic Field Improvements	L.K. McLean Assoc.	Chris Dwyer	437 South Country Rd Brookhaven, NY 11719	631-286-8668
Great Neck South HS Great Neck, NY		Jul-12	$1,979,377.51	Mar-14	Site Work	Wiedersum Associates	Stefan Reiss	104 Adams Avenue Hauppague, NY 11788	(631) 434-7900
Green Brook MS Green Brook, NJ		Apr-11	$1,091,284.86	Aug-11	Green Brook Middle School Track and Field Sports Facility	Somerset County Engineers	Tricia Smith	County of Somerset 20 Grove St PO Box 3000 Somerville NJ 08876	908-231-7175
Green Wave Park		Aug-06	$1,368,010.00	Nov-06	Renovations of Field Synthetic Turf	Edwards & Kelcey Inc,	Peter McCabe	299 Madison Avenue Morristown, NJ 07962-1936	973-267-0555
Gunther Field Bellmore, NY		Apr-06	$143,612.98	Jul-06	Construction of Parking Lot with Miscellaneous Fence Repairs	Nelson & Pope	Kenneth Munz	572 Walt Whitman Rd Melville, NY 11747	631-427-5665
Hackley School, The 293 Benedict Avenue Tarrytown, NY		Jun-11	$1,410,727.00	Apr-12	Installation of Natural Turf Baseball & Softball Field and Two Synthetic Turf Fields	Peter Gisolfi Associates	Ronan Wilk	566 Warburton Avenue Hastings-On-The Hudson NY 10706	914-478-3677
Haddonfield High School Haddonfield, NJ		6-13	$979,625.00	12/13	Site Work	Remington & Vernick	Todd Day	232 Kings Highway East Haddonfield, NJ 08033	(856) 216-1890
Haindl Field		Oct-06	$435,000.00	Dec-06	Installation of Synthetic Turf Field	N/A	Angelo Pugliese	438 Center Avenue Mamaroneck, NY 10543	(914) 698-2404
Half Hollow Hills HS West Dix Hills, NY	X	Jul-07	$970,944.65	Oct-07	Installation of New Synthetic Turf Field.	N/A	Joann Casale	Half Hollow Hills CSD, 525 Half Hollow Road, Dix Hills, NY	631-592-3000

The LandTek Group. Completed Job List

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Half Hollow Hills East Dix Hills, NY	X	Jul-07	$958,627.40	Sep-07	Installation of New Synthetic Turf Field	N/A	Joann Casale	Half Hollow Hills CSD, 525 Half Hollow Road, Dix Hills, NY	631-592-3000
Hamburg SD Stadium Hamburg, PA		Apr-10	$1,767,545.00	Aug-10	General Construction	AEM architects	Phil Leinbach	3700 Perkiomen Ave Reading PA 19606	6107793220
Hamilton Field@Dover MS Dover, NJ		Jul-11	$691,472.50	Aug-11	Hamilton Field Improvements	Suburban Consulting	Daren Phil	100 Valley Road Suite 202 Mount Arlington, NJ 07856	973-398-1776
Harborfields High School Greenlawn, NY		Apr-10	$487,200.00	Jul-10	Running Track Reconstruction	BBS Architects	Steve Walsh	244 E. Main St. Patchogue, NY 11772	631-475-0349
Harvest Wood Park Middlesex County, NJ		Jul-07	$1,325,469.70	Nov-07	New Synthetic Turf	Environmental Resolutions	Tom Miller	525 Fellowship Road suite 300 Mount Laurel NJ 08054	856-235-7170
Hasbrouck Heights		Oct-06	$401,000.00	Apr-06	Hitchcock Field Drainage	E.I. Associates	Frank Putrino	260 Green Street Hackensack NJ 07606	(201) 342-0880
Heavenly Farms		May-07	$203,150.00	May-07	Installation of Synthetic Turf Field	N/A	Kevin Reynolds	8088 Montview Montreal, Quebec, Canada H4P 2L7	800-724-2969
Herricks HS New Hyde Park, NY	X	Aug-09	$649,100.00	Dec-09	Reconstruction of High School Track	Herricks UFSD	Jim Brown	999 Herricks Road New Hyde Park, NY 11040	516-305-8905
Herricks Little League New Hyde Park, NY	X	Oct-07	$85,748.00	Nov-07	Reconstruction Little League Field	Town of North Hempstead	Jerry Olsen	1801 Evergreen Ave. New Hyde Park, NY 11040	516-327-3110
Hewlett Elementary School Hewlett, NY		Sep-09	$293,568.55	Dec-09	Reconstruction of Baseball Field	H2M Group	Tina Ye	575 Broad Hollow Road Melville, NY 11747	631-756-8000
Hewlett High School	X	Aug-06	$400,000.00	Oct-06	Install Synthetic Turf Field	N/A	Mark Bershad	60 Everett Ave. Hewlett, NY 11557	(516) 295-3093
Hewlett-Woodmere PSD		May-06	$450,785.50	Jun-06	Irrigation Upgrade	The Spector Group	Jim Meeks	1 Johnson Pl Woodmere, NY 11598	(201) 529-5757
George W. Hewlett HS Hewlett, NY 11557		Jul-11	$569,000.00	Mar-12	Track & Field Renovations	H2M Group	Phil Alberto	575 Broadhollow Road Melville, NY 11746	631-756-8000
Hicksville UFSD			$206,000.00		Reconstruct track at High school	N/A	Tom Shaw	200 Division Ave, Hicksville, NY 11801	(516) 733-6679

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Hoboken Cove Phase I Park & 1600 Park Hoboken, NJ		Jan-13	$2,108,466.08	Mar-14	Field and Retainage Wall	Remington, Vernick & Arango	Annina Hogan	232 Kings Highway East	(856)-216-1890
Hoboken High School JFK Vets Stadium		Jul-06	$603,538.00	Sep-06	Install New Synthetic Turf Field	R&J Construction	Ralph Riefol	12 Railroad Place Bellville, NJ 07109	(973) 759-6550
Hofstra University Hempstead, NY		Jul-07	$770,253.00	Sep-07	Synthetic Turf Replacement @ Stuart Stadium	Abel Bainnson Butz	Jay Artinian	60 6th Ave Suite 1105 New York, NY	516-463-7931
Holman Field Beam Avenue, Jackson, NJ		Jun-07	$1,058,529.12	Nov-07	Synthetic Turf Improvements	French and Parello	Michael Pega	1600 Route 34 suite 101 wall NJ 07719	732-312-9800
Howitt East Farmingdale, NY		Jul-06	$223,597.00	Oct-06	Renovation of 3 Baseball Fields, Site Work	John A. Grillo Architects	Christopher Hunt	1213 Main Street Port Jefferson, NY 11777	631-476-2161
Hun School of Princeton		Jul-06	$317,700.00	Jul-06	Install New Synthetic Turf Field	N/A	Kevin Reynolds	FieldTurf 8088 Montview Montreal, Quebec, Canada H4P 2L7	800-724-2969
Hunterdon Central Regional HS		Jul-05	$1,127,567.25	Nov-05	All Weather Track & Turf System	M. Disko & Associates	Ken Disko	151 Sumner Ave Kenilworth, NJ 07033	908-298-8200
Hunterdon H.S. Field # 6		Aug-06	$126,939.00	Nov-06	Improvements to Multi-Purpose Field #6	Disko Associates	Kenneth Disko	151 Sumner Avenue Kenilworth, NJ 07033	908-687-7400
Hunterdon H.S. Field #3		Jul-06	$135,552.70	Oct-06	Improvements to Multi-purpose Field #3	Disko Associates	Kenneth Disko	151 Sumner Avenue Kenilworth, NJ 07033	908-687-7400
Huntington HS Huntington, NY		Sep-06	$1,930,211.52	May-07	New Synthetic Turf with Drainage, New Track, Bleachers and Field Events	Thomas Associates	Ken Montross	1 Michael Avenue Farmingdale, NY 11735	631-847-7762
Idle Day Drive Huntington, NY		May-14	$204,470.00	14-Aug	Drainage & Concrete Work	Town of Huntington	Chas Cancellare	30 Rofay Drive Huntington, NY 11743	(631) 499-2143
Independence Park Newark, NJ		Mar-11	$646,322.80	11-Sep	Independence Park Improvements	T & M Associates	Keith Mueller	11 Tindall Road Middletown, NJ 07748	732-671-5400
Immaculata High School		Jul-06	$655,050.61	Sep-06	Synthetic Turf Athletic Field	DiGeronimo Mikula Associates	William Mikula	8 Scottsdale Court Cranbury, NJ 08512	609-655-0114
Irvington Park Irvington, NJ		Mar-11	$1,033,386.00	Sep-11	Rehabilitation of Soccer Turf Field & Entrance Improvements	Remington & Vernick	Jackie Foushee	300 Penhorn Ave Secaucus, NJ 07094	201-624-2137
Irvington High School Irvington, NJ		5/13	$2,826,050.50	12/13	Field Improvements	DMR Architects	Odi	777 Terrace Ave. Hasbrouck Heights, NJ 07604	(201) 274-5177
IS/HS 43 Staten Island, NY		Jul-08	$366,683.00	Aug-08	Installation of Multi-Use Synthetic Turf Field	N/A	Paul Nardone, Jr.	8320 Elmont Road Elmont, NY 11003	516-285-5500 x251

The LandTek Group, Completed Job List

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Iona College New Rochelle, NY		Nov-07	$150,688.00	Jan-08	Synthetic Turf Field	Anthony M. Pucillo AIA	Anthony Pucillo	11 Mill Road New Rochelle, NY 10804	914-636-8377
Iona College New Rochelle, NY	X	Jun-09	$433,755.00	Jun-09	Synthetic Turf Replacement	N/A	Rich Murray	715 North Avenue New Rochelle, NY 10801	914-633-2013
Island Trees Public Schools Levittown, NY		May-06	$622,211.36	Jan-06	Capital Improvements to High School Running Track	John A. Grillo Architect, PC	John Grillo	1213 Main Street Port Jefferson, NY 11777	631-476-2161
Island Trees High School Levittown, NY		Nov-09	$957,955.00	May-10	Athletic Field Improvments	H2M Group	Michelle Cranz	575 Broad Hollow Road Melville, NY 11747	631-765-8000
Joseph T. St. Lawrence Center - Town of Ramapo		Oct-10	$512,005.00	Mar-11	Remove/Replace Existing Turf with New	Ward Associates	John Longo	1500 Lakeland Avenue, Bohemia, NY 11716	631-563-4800
James Madison HS		Apr-06	$51,000.00	Apr-06	Synthetic Athletic Field	TDX	Ed Dillon	345 Seventh Avenue NY NY	(212) 279-1981
Jellef Field -Maret School Washington DC		May-10	$376,387.92	Sep-10	Construction Site Work	Sigal Construction	Phil Mueller		703 302 1502
John F. Kennedy Airport Runway 13R-31L		Jun-10	$1,106,415.00	Nov-10	Rehabilitation of Runway 13R-31L and Access Improvements	Perini Corporation	Gaby Antoun	1022 Lower South Street, Peekskill, NY 10566	914-739-1908
John F. Kennedy High School Bronx, NY		Jun-10	$498,850.00	Jul-10	Installation of Synthetic Turf Field	Pro Con	David Thur	111 Barry Street Staten Island, NY 10309	718-227-5333
John F. Kennedy HS Plainview, NY		6/13	$1,394,300.00	12/13	Renovation of Athletic Field	Nassau Suffolk Engineers	Bruce Strum	801 Motor Parkway Hauppauge, NY 11788	631-737-9170
John F. Kennedy Catholic H.S. Somers, NY		May-11	$892,843.00	Oct-11	Synthetic Turf Soccer & Softball Fields	DCAK-MSA Architects	Mark Montalbano	53 Hudson Avenue Nyack, NY 10960	845-353-1300
John Dewey High School New York, New York		Jun-06	$345,011.00	Aug-06	Synthetic Turf Athletic Field	TDX Construction Corp.	Edward Dillon	345 7th Avenue New York, NY 10001	212-279-1981
John Street Park		Jan-07	$717,094.90	Jun-07	Synthetic/Athletic Fled	Borough of Carteret	John Dupont	20 Cooke Avenue Carteret NJ 07008	856-235-7170
John J. Burns Park Massapequa, NY	X	Dec-06	$1,560,569.60	Jan-00	F/I Two Synthetic Fields w/Drainage	Cameron Engineering	Leonard LaSala	3 Aerial Way Suite 100 Syosset, NY 11790	516-827-4900
John J. Burns Park Massapequa, NY		Dec-08	$362,440.00	Apr-09	Drainage for 90' Baseball Field	Laser Industries	Anthony Guliano	PO Box 315 Ridge, NY 11961	631-924-0644
John Street School Franklin Sq., NY		Jun-06	$134,000.00	Sep-06	Site Reconstruction	BBS Architects	Ray Wood	244 E. Main St. Patchogue, NY 11772	631-475-0349

The LandTek Group, Inc. Completed Job List

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J.P Stevens High School Edison, NJ		May-13	$1,074,000.00	Oct-13	Synthetic Turf Fields	USA Architects Planners & Interior Designers		20 North Doughty Ave Somerville, NJ 08876	908.722.2300
Justice Complex West Veterans Highway Jackson, NJ		Jul-07	$3,445,329.65	Dec-08	Athletic Field Improvements	French and Parallo	Michael Piga	1800 Route 34 suite 101 wall NJ 07719	732-312-9800
Kearny High School		Jun-06	$333,056.25	Aug-06	Running Track Renovation	Fallon + Pacheco	John Fallon	120 Overlook Terrace Bloomfield, NJ 07003	973 893-9119
Kearny High School Kearny, NJ		Feb-06	$580,288.00	Jun-06	Synthetic Athletic Field	Bearsch Compeau Knudson	Robert Watts	41 Chenango Street Binghamton, NY 13901	607-772-0007
Keio Academy		May-08	$733,365.00	Aug-08	Artificial Turf Installation	CM: Shimizu N America LLC	Nick Volpe	28 W 44th St Suite 1400 New York, NY 10036	212 223 7757
Kennedy Park		Aug-06	$480,114.00	Sep-06	Installation of Synthetic Turf	Maser Consulting	Carl O'Brien	200 Valley Road Suite 400 Mount Arlington, NJ	732-383-1950
Key Span-Steeple Chase Park - Mets		Sep-06	$819,000.00	Jun-06	Install & Maintenance of Natural Play Surface, Custom Soil Mix and Complex Drainage/Irrigation System	Turner Construction	Michael Reed	1901 Surf Ave. Brooklyn, NY 11224	(718) 449-4752
King St. Athletic Field		Jul-06	$167,090.00	Jul-06	Installation of Synthetic Turf Fields	N/A	Kevin Reynolds	8088 Montview Montreal, Quebec, Canada H4P 2L7	800-724-2969
Klein Field Rockville Centre, NY		Oct-12	$1,034,100.00	Apr-13	Field Renovations @ Klein Field - Skelos Athletic Complex	Cameron Engineering	Walter Sieber	100 Sunnyside Blvd. Suite 100 Woodbury, NY 11797	516-827-4900
Lakeland Central School District		Sep-04	$5,292,058.35	Aug-05	Additions and Alterations to School District Facilities	73 Troy Road, East Green Bush NY 12061	John Gooley	73 Troy Road East Greenbush, NY 12061	518-479-4000
Lakeside Field		Aug-08	$369,500.00	Sep-08	Installation of New Synthetic Turf Field	Township of Jefferson	John J. Elam, P.E.	1033 Weldon Road Lake Hopatcong, NJ 07849	973-208-6140
Lawrence High School Lawrence, NY		Aug-09	$1,624,000.00	Sep-10	Alterations at High School - Site Work	Wiedersum Associates	Vincent Di Fede	104 Adams Avenue Hauppague, NY 11788	631-434-7900
Lawrence Thompson Mem Pk Staten Island, NY		Nov-09	$3,758,896.78	Nov-10	Reconstruction of Track and Construction of Synthetic Turf Infield	NYC Dept of Parks and Rec	Mike Brown	Olmstead Center, Flushing NY	718-760-6789

The LandTek Group, Completed Job List

Job Name	Designed by The LandTek Group	Start Date	Total Contract	Completion Date	Job	Architect	Contact Name	Address	Number
Lief Ericson Playground Brooklyn, NY		Aug-09	$1,877,182.45	3/11	Reconstruction of Ball Fields with Synthetic Turf at Lief Ericson Playground	NYC Dept of Parks and Rec	Matthias Augustine	Olmstead Center, Flushing NY	718-760-6789
Levitt Ball Field Brookhaven, NY		Oct-08	$217,755.06	Nov-08	Construction of Athletic Field	Town of Brookhaven	Matt Rocchio	1130 Old Town Rd. Coram, NY 11727	631-451-6199
Lincoln Memorial Park Hempstead, NY		Nov-08	$1,109,765.00	Apr-09	Design & Renovation of Athletic Field - Installation of Synthetic Turf	Incorporated Village of Hempstead	George Sandas	99 Nichols Court Hempstead, NY 11551	516-489-3400
Lincoln Memorial Park Hempstead, NY	X	Apr-11	$255,550.00	May-11	Improvements to Lincoln Memorial Park	Inc. Village of Hempstead	George Sandas	99 Nichols Court Hempstead, NY 11551	516-489-3400
Lincoln University, PA		May-13	$547,280.00	Jul-12	Lincoln University Landscaping & Athletic Fields	Simone Collins Landscape Arch	Stephen Sinclair	511 Old Lancaster Rd Berwyn, PA 19312	610-889-0348
Lindell Elementary School Athletic Fields		Apr-06	$432,551.89	Oct-06	Athletic Field Improvements	Wiedersum Associates, PC	Joseph Hopke	200 Motor Pkwy. Hauppauge, NY 11788	631-434-7900
Linden Ball Field Linden Park, Corona, NY		Mar-06	$124,285.00	May-06	Synthetic Grass Little League	Barron Associates	Kristine Barron	40-18 Bell Blvd. Bayside, NY 11361	718-224-0202
Linden Tiger Stadium		Mar-05	$4,436,275.90	Jul-06	Reconstruction of Linden Tiger Stadium	Richard A. Alaimo Associates	Marty Miller	Farmingdale, NY 11735	609-267-8310
Lindenhurst H.S. & Middle School		Jul-03	$1,177,965.00	May-03	Renovate Athletic Fields	JMOA Engineering	Ivan Carrisquillo	350 Daniel Street Lindenhurst NY 11757	(631) 226-6441
Lindenhurst Middle School Lindenhurst, NY		Jun-05	$791,108.95	Oct-05	Athletic Field Reconstruction	J.A. Grillo Architect	John Grillo Jr.	1213 Main Street Port Jefferson, NY 11777	631-476-2161
Locust Valley CHSD		Jun-99	$344,948.00	Mar-00	Running Track	N/A	Henry Afilionis	Horse Hollow Rd Locust Valley, NY 11550	(516) 674-6350
Long Beach CSD Lido Complex Long Beach, NY		Jun-10	$3,367,485.00	Nov-10	Lido Complex - Parking Lot & Athletic Field Reconstruction	CSArch	Tom Ritzenthaler	19 Front Street Newburgh, NY 12550	845-561-3179
Long Beach HS Long Beach, NY		Mar-14	$719,716.88	Jul-14	Installation of Synthetic Turf Field & Furnish Sports Equipment	CSArch	Dana Hochberg	19 Front Street Newburgh, NY 12550	(845) 561-3179
Long Island University @ C.W. Post Westbury, NY	X	Jun-06	$822,885.00	Aug-06	F/I Synthetic Field w/Drainage	Cameron Engineering	Alan King	3 Aerial Way Suite 100 Syosset, NY 11790	516-827-4900
Long Island University - Brooklyn Campus	X	Mar-03	$84,072.00	Apr-03	Renovate Synthetic field	N/A	Joe Slater	1 University Plaza Brooklyn, NY 11201	(718) 488-1018

The LandTek Group, Inc. Completed Job List

Job Name	Designed by The LandTek Group	Start Date	Total Contract	Completion Date	Job	Architect	Contact Name	Address	Number
Lopez Baseball Field Essex County, NJ		Apr-12	$632,442.11	Nov-12	Lopez Baseball Field Improvements	Remington & Vernick	Jackie Foushee	300 Penhorn Ave Secaucus, NJ 07094	201-624-2137
Lutheran High School Brookville, NY		Oct-11	$933,725.00	Aug-12	Synthetic Turf Field & Field Upgrades	H2M Group	Patrick Stone	575 Broadhollow Road Melville, NY 11746	631-756-6000
Lynbrook UFSD Marion Street Elementary South Middle School		Jul-13	$1,731,730.00	Mar-14	Athletic Field Reconstruction	John A. Grillo Architects, PC	Bob Cascone	1213 Main Street Port Jefferson, NY 11777	631-476-2161
Lycoming College Williamsport, PA		Jul-12	$280,628.50	Aug-12	Lycoming College TurfField	ELA Group	Chuck Haley	743 South Broad St. Lititz, PA 17543	717-626-7271
Lyndhurst High School Lyndhurst NJ		Mar-08	$816,832.50	Jun-08	Athletic Field Reconstruction	Neglia Engineering	Tom Solfaro	34 Park Avenue Lyndhurst, NJ 07071	201-939-6805
Lyndhurst Recreation Trump Field Lyndhurst NJ		Mar-08	$923,022.50	May-08	Site Work	NA	Kevin Reynolds	FieldTurf USA 8088 Montview Rd Montreal, Quebec, H4P 2L7	(514) 340-9311
MacArthur Airport Ronkonkoma, NY		Mar-12	$134,750.00	Oct-12	Fencing	NYS Office of General Services	Pierre Boucicaut	998 Crooked Hill Road W. Brentwood, NY 11717	631-951-0248
Madison Recreation Complex Madison, NJ		Jun-11	$3,382,381.80	Mar-12	Installation of 2 Synthetic Turf Fields	Borough of Madison	Robert Vogel	Hartley Dodge Memorial 50 Kings Road Madison, NJ 07940	973-593-3060
Malverne HS Malverne, NY		7/11	$2,797,998.00	Jul-12	Athletic Field & Tennis Court Reconstruction	BJLJ Engineers	Tim Lieber	393 Jericho Turnpike Mineola, NY 11501	516-741-2222
Mamaroneck HS Mamaroneck, NY		Oct-10	$442,000.00	Nov-10	Memorial Field Improvements - Synthetic Turf	WBA Group, Inc	Bill Anlskovich	116 Montewese Street Branford, CT06405	203-488-8234
Manahassett Creek Park Long Beach, NJ		12-08	$296,408.70	Jan-09	Installation of Synthetic Turf Field	N/A	Kevin Reynolds	FieldTurf USA 8088 Montview Rd Montreal, Quebec, H4P 2L7	(514) 340-9311
Manhasset High School Manhasset, NY	X	12-08	$190,000.00	Jan-09	Installation of Synthetic Turf Baseball Field	N/A	Sandy Demitroff	Manhasset UFSD 200 Memorial Place Manhasset, NY	516-314-2225
Manhasset HS Multi Fields Manhasset, NY	X	Oct-10	$542,084.00	Nov-10	Installation of Multi-Sport Field with Synthetic Turf @ Manhasset HS	J.A. Grillo Architect	John Grillo Jr.	1213 Main Street Port Jefferson, NY 11777	631-476-2161
Manhasset High School Softball Field Manhasset, NY	X	Nov-09	$209,742.00	Apr-10	Reconstruction of Softball Field with Synthetic Turf	N/A	Chris Jones	Nassau Couty PAL for Manhasset AP Unit 200 2nd Ave. Manhasset, NY 11758	973-445-8259

The LandTek Group. Completed Job List

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Manhasset Valley Park Manhasset, NY		Jan-14	$2,765,007.10	Jul-14	Construction of Athletic Fields & Site Work	H2M Group	Mike Bowden	538 Broadhollow Road Melville, NY 11746	631-756-8000
McArhur High School Levittown NY		Jun-08	$1,051,958.38	Sep-08	Installation of Synthetic Turf Field	John A. Grillo Architects		1213 Main Street Port Jefferson, NY 11777	631-476-2161
Madison High School		Jun-05	$97,500.00	Aug-05	Install Slit Drainage System	N/A	Charles Milewski	Madison Public Schools 359 Woodland Rd Madison, NJ 07940	973-593-3100
Malcolm X Shabazz		Nov-08	$479,000.00	Dec-08	Field Renovation	Abel Bainson Butz	John Butz	80 8th Ave NY NY	212-645-0048
Manhasset High School		Jul-04	$182,500.00	Jul-04	Install Synthetic Turf	N/A	Kevin Reynolds	8088 Montview Montreal, Quebec, Canada H4P 2L7	800-724-2969
Manhasset HS Manhasset, NY		Jun-13	$1,343,000.00	12/13	Track & Field Construction	John A. Grillo Architects, PC	John M. Grillo	1213 Main Street Port Jefferson, NY 11777	631-476-2161
Manhattan College Gaelic Park Field		Apr-07	$663,612.00	May-07	Installation of Synthetic Turf	N/A	Tim Cattella @ Clark Companies	P.O. Box 427 41155 State Hwy 10 Delhi, NY 13753	(607) 746-2727
Manhattanville College Purchase, NY	X	Apr-50	$998,500.00	Aug-05	Synthetic Fields	N/A	Greg Palmer	Manhattanville College 2900 Purchase St. Purchase, NY 10577	914-906-7301
Marjorie Post Park, Massapequa NY		Mar-12	$443,026.12	Apr-12	Concrete Requirements	Town of Oyster Bay	N/A	Unqua Road, Massapequa NY	
Martin Van Buren		Dec-02	$257,000.00	Apr-03	Install Synthetic Turf	TDX Construction	Jalo Maraj	345 Seventh Avenue NY NY	(212) 279-1981
Marymount University		May-03	$560,032.00	Aug-02	Install Synthetic Turf	N/A	Bill Finney	2807 Glebe Rd Arlington VI	(703) 526-6869
Mary Washington University Fredericksburg, VA		Jul-11	$2,051,542.70	Apr-12	Synthetic Turf Fields in the Battleground Athletic Complex	University Engineer	Connie Souza	1301 College Avenue Fredericksburg, VA 22401	540-654-2079
McGuire Air Force Base New Jersey		May-12	$1,488,388.12	Apr-13	Design/Build Repair Athletic Fields	Eastern Construction & Electric, Inc.	Richard Sosdorf	18 Georgetown Road Wrightstown, NJ 08562	609-723-4802
McKeesport Tiger Stadium		Jul-03	$359,851.00	Aug-03	Install Synthetic Turf Field & Track	N/A	Jim Richmond	15 W. McNutt St. Houston, PA 15342	724-745-0565
McKenna Athletic Field New Rochelle High School		Sep-07	$441,650.00	Sep-07	Installaion of Synthetic Turf Field	N/A	Michael Valentine @ DeRosa Tennis Contractors	438 Center Avenue Mamaroneck, NY 10543	914-698-2404
McKinley Playground		May-03	$33,500.00	Jun-03	Install Synthetic Playground	Mark Morrison Associates	Mark Morrison	1 Colonnade Place Newark NJ 07104	(973) 268-5270

The LandTek Group, Inc. Completed Job List

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Medford Memorial Park Medford, NY		May-10	$574,528.00	Jun-10	Installation of East & West Synthetic Turf Fields	L.K. McLean Associates	Chris Dwyer	437 S. Country Road Brookhaven, NY 11719	631-286-8668
Medford Athletic Field Medford, NY		Nov-09	$993,466.68	Jan-10	Installation of Synthetic Turf Field	L.K. McLean Associates	Chris Dwyer	437 S. Country Road Brookhaven, NY 11719	631-286-8668
Memorial Park Field Bergen County, NJ		Jul-07	$421,429.32	Sep-07	Removal and Installation of Synthetic Field	Job and Job	Kenneth Job	108 Hudson Street Hackensack NJ 07601	201-487-8754
Memorial Field Flushing, NY		8/12	$611,430.00	Feb-14	Reconstrucion of Ball Field	MKW Associates, LLC	Vincent Alfano	Olmstead Center Flushing Meadows-Corona Park Flushing, NY 11368	(718) 760-6738
Middlebush Park Field Somerset, NJ		Jan-13	$2,138,656.45	Jan-14	Field Improvements	Remington, Vernick & Vena	Randolf Laks	9 Allen Street Toms River, NJ 08753	(732) 286-9220
Miller Place H.S. Miller Place, NY		Jun-04	$478,000.00	Sep-05	Running Track	JAG Architect	John Grillo	1213 Main Street Port Jefferson, NY 11777	631-476-2161
Mitchell Field Franklin School Kearny, NJ		Dec-10	$364,673.70	Jun-11	Installation of Synthetic Turf @ Mitchell Memorial Field	Gallen Contracting	Brendan Allen	510 Hudson Street Hackensack, NJ 07601	201-641-4288
Mitchell Park - Molloy College Uniondale NY		Oct-13	$590,000.00	Apr-14	Synthetic Turf Installation	Molloy College		1000 Hempstead Turnpike Rockville Centre, NY	
Mama Johnson Field Hoboken Housing Authority		May-12	$908,460.59	Nov-12	Mama Johnson Field Improvements	Remington, Vernick & Arango	Jackie Foushee	300 Penhorn Ave Secaucus, NJ 07094	201-624-2137
Monroe H.S.		Jul-04	$713,329.36	Sep-04	Synthetic Field	DiGeronimo Mikula Associates	Bill Mikula	8 Scottsdale Court Cranbury, NJ 08512	609-655-0114
Monroe High School		Apr-08	$992,000.00	Sep-08	Synthetic Field Project	Edwards Engineering Group		PO Box 8437 Somerville, NJ 08876	908-231-9595
Montclair Kimberly Academy Montclair, NJ 07042		May-13	$416,506.00	Oct-13	Site Work & Turf	MKW Associates, LLC		39 Park Avenue Rytgerfirdm NJ 07070	(973) 539-5353
Montclair State University Sprague Field		Mar-06	$807,000.00	Jun-06	Replacement of Existing Synthetic Turf Field and Related Site Work	Clarke Caton Hintz Architects	George Hibbs	400 Sullivan Way Trenton, NJ 08628	(609) 883-8383
Monte Irvin Orange Pk Orange, NJ		Mar-09	$999,355.00	Jul-09	Improvements to Soccer Field in Monte Irvin Orange Park	French and Parrello	Mike Piga	1600 Rte 34 Suite 101 Wall, NJ 07719	

The LandTek Group, Completed Job List

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Moore Catholic High School		May-04	$231,150.00	Jun-04	Synthetic Turf Installation	N/A	Kevin Reynolds	8088 Montview Montreal, Quebec, Canada H4P 2L7	800-724-2969
Moriches Fields Moriches, NY	X	Apr-07	$488,000.80	Jun-07	Artificial Turf Baseball Layout - East & West Fields with Underfield Drainage	N/A	Matt Rocchio	Town of Brookhaven 1130 Old Town Road Coram, NY 11727	631-451-6199
Moriches Field #3 Moriches, NY	X	Apr-09	$371,735.06	May-09	Reconstruction of Athletic Field	N/A	Ed Morris	Town of Brookhaven 1130 Old Town Road Coram, NY 11727	631-451-6199
Moriches Field #4 Moriches, NY	X	Apr-09	$938,187.20	May-09	Reconstruction of Athletic Field	N/A	Ed Morris	Town of Brookhaven 1130 Old Town Road Coram, NY 11727	631-451-6199
Mount St Mary's Academy 1645 Route 33 Watchung, NJ		Aug-07	$1,417,639.02	Jul-08	Athletic Fields, and Running Tracks	Suburban Consulting Engineers	Darrin Phil	100 Valley Road suite 202 Mount Arlington, NJ 07856	973-398-2121
Mount St. Mary College Newberg, NY		Jul-10	$467,011.35	Aug-10	Installation of Synthetic Turf Field	Clark Companies	Chris Clark	41155 State Highway 10 Delhi, NY 13753	607-746-2727
Mount Sinai HS		Jul-04	$818,463.27	Oct-04	Synthetic Turf/Running Track	H2M Group	Machel Craig	75 Broadhollow Road, Melville, NY	631-756-8000
National Tournament Athletic Center Hauppauge, NY	X	May-08	$185,748.75	Aug-08	Installation of Synthetic Turf Field	N/A	Ed Leap	National Tournament Athletic Center 114 Parkway Drive S. Hauppauge, NY 11787	516-286-6403
Newark Academy Newark, New Jersey		May-12	$1,359,957.00	Apr-13	Phase 2 Sub-Phase 2a Athletic Fields	Newark Academy	Sam Goldfischer	91 South Orange Ave. Livingston, NJ 07039	973-992-7000
Newburgh Free Academy Newburgh, NY		Jun-08	$420,456.00	Sep-08	Installation of Synthetic Turf Field	ETRE Construction		567 5th Avenue New Rochelle, NY	845-561-3179
New Dorp H.S.		Nov-02	$3,362,412.00	Jun-03	Athletic Field & Track Rehabilitation	TDX Construction	Jalo Maraj	345 Seventh Avenue NY NY 10001	(212) 279-1981
New Harrison HS		Apr-06	$1,303,430.91	Apr-06	Athletic Field & Drainage	E.I. Associates	Ernesto Arana	8 Ridgedale Avenue, Cedar Knolls, NJ 07927	973-775-7777
New Hyde Park Memorial HS Phase II		Jun-04	$795,117.67	Nov-05	Site Work & Athletic Field Improvements	James M. Cambell Architects, PC	Tom Petersen	380 West Main Street Babylon, NY 11702	631-587-1984
New Hyde Park/Sewanhaka SD		Jun-03	$539,000.00	Dec-03	Renovation, Alteration & Construction	James M. Campbell	James Campbell	380 West Main Street Babylon, NY 11702	631-587-1984

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New York Institute of Technology	X	Oct-05	$162,000.00	Apr-06	Install NCAA College Girls Softball Field	n/a	Clyde Doughty	NYIT Northern Blvd Old Westbury, NY 11568	516-686-1133
New York Institute of Technology Soccer/Lacrosse	X	Aug-06	$737,320.00	Mar-07	F/I Synthetic Soccer/Lacrosse Field with Drainage	n/a	Clyde Doughty	NYIT Old Westbury, NY	516-686-1133
New York Institute of Technology Old Westbury, NY		Mar-13	$197,300.00	Jun-13	Preservation of the De seversky Center East Retaining Wall	Cameron Engineering		100 Sunnyside Blvd. Suite 100 Woodbury, NY 11797	(516) 827-4900
New York Institute of Technology Old Westbury, NY		Feb-13	$1,815,200.00	Jul-13	Installation of Synthetic Turf Baseball Field	John A. Grillo Architects, PC	John M. Grillo	1213 Main Street Port Jefferson, NY 11777	631-476-2161
Newfield H.S. Selden, NY	X	Jul-06	$862,093.00	Dec-06	F/I Synthetic Field w/Drainage & Reconstruct Baseball Field	Wiedersum Associates	Richard Wiedersum	200 Motor Parkway Hauppauge, NY	631-434-7900
New York Athletic Club Pelham Manor, NY		Apr-07	$528,000.00	May-08	Installation of Synthetic Turf Field	DeRosa Tennis	Mike Valentine	P.O. Box 430 Mamaroneck, NY 10543	914-698-2404
Nikon @ Jones Beach Theater Wantagh, NY			$229,093.00	Jul-13	Treks Decking/Turf/Pavers	Skanska USA Building Inc.	Carolyn Wettstein	350 5th Avenue New York, NY 10118	917-438-4500
North Hudson Track - Bergen, NJ		Apr-03	$200,000.00	Nov-03	Install New Running Track	L&C Design Consultants	John Curry	333 Meadowland Parkway, Secaucus, NJ	201-866-9583
Northern Valley - Demarest		Sep-02	$1,988,445.00	Mar-03	Athletic Field Improvements	Ronald Schmidt & Associates	Joe Braden	162 Knickerbocker Road Demarest NJ 07627	731-735-0838
Northern Valley - Old Tappan		Aug-02	$2,084,074.00	Mar-03	Athletic Field Improvements	Ronald Schmidt & Associates	Joe Braden	162 Knickerbocker Road Demarest NJ 07627	731-735-0838
North Plainfield High School North Plainfield, NJ		Jul-09	$986,559.00	Nov-09	Improvements to N Plainfield HS Complex for BOE	Somerset County Engineering			
NY Jets Training Facility @ Hofstra University	X	May-03	$3,400,000.00	Sep-03	Construct Two New Soccer/Football Athletic & Synthetic Fields	N/A	Clay Hampton	1000 Fulton Ave. Hempstead, NY 11550	516-560-8100
Oceanside High School		Aug-06	$652,863.00	Oct-06	Install Synthetic Turf Field	J.A. Grillo Architect	John Grillo Jr.	1213 Main Street Port Jefferson, NY 11777	631-476-2161
Oceanside HS #7 Oceanside, NY		Jul-05	$708,641.00	Oct-06	Athletic Field Reconstruction	J.A. Grillo Architect	John Grillo Jr.	1213 Main Street Port Jefferson, NY 11777	631-476-2161

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Oceanside Park Oceanside, NY		Jun-13	$736,087.43	12/13	Installation of Synthetic Turf Field & Furnish Sports Equipment	Town of Hempstead	Clem Grieco	200 North Frank Street Hempstead, NY 11550	516-292-9000
Oceanside Park Soccer Field Oceanside, NY		Apr-04	$519,651.75	Oct-04	Construct New Synthetic Grass Soccer Field with Irrigation System	Nelson & Pope	Ben Abbate	572 Walt Whitman Rd Melville, NY 11747	631-427-5665
Oceanside UFSD Oceanside, NY		Jan-13	$155,549.92	Feb-13	Remove & Replace Fibar on Various Playground within School District	ReNu Restoration	Mike Vandenburg	1215 Sunrise Highway Copiague, NY 11726	631-782-1020
O'Donohue Park East Rockaway, NY		Jul-13	$249,500.00	Aug-13	Renovation of Baseball Field	NY Mets	Eric Saretsky	CitiField 123-01 Roosevelt Ave. Flushing, NY	(718) 603-4041
Ossining High School Lower Field		May-07	$786,797.50	Jun-07	Synthetic Construction	n/a		29 S. Highland Ave Ossining NY 10562	
Octagon Park Roosevelt Island, NY		Apr-14	$61,140.00	Jul-14	Resurfacing & Repair of Tennis Courts	Roosevelt Island Operating Corp.	Robert Greene	591 Main Street Roosevelt Island, NY 10044	(212) 832-4536
Our Lady of Grace Church/ Van Bourgandien Park	X	Oct-04	$612,500.00	Nov-04	Installation of Synthetic Field	N/A	Frank Bacherty	Town of Babylon 200 E Sunrise Hwy Lindenhurst, NY 11757	631-893-2120
Paramus High School Paramus, NJ		Jul-10	$679,700.00	Oct-10	Athletic Field Renovation	Environetics Group Architects PC	Charles Koch	180 Sylvan Ave Englewood Cliffs, NJ 07632	201-894-1000
Pascack Valley High School		May-05	$1,702,767.00	Aug-06	Athletic Field Improvements	Seyffer & Koch	Charles A. Koch	208 Harristown Road Glen Rock NJ 07452	201-493-8899
Passaic County Technical Institute		Aug-04	$3,240,000.00	Nov-05	Synthetic Athletic Fields	Comerro Coppa Architects, P.C.	Mark Montalbano	97 Lackawanna Ave. Totowa, NJ 07512	973-890-8989
Patchogue Medford H.S.		Jul-04	$425,000.00	Nov-05	Site Work & Athletic Field Improvements		Brian Slaga	266 East Jericho Turnpike, South Huntington NY	631-549-9800
Paul Robeson Stadium East Orange, NJ		Apr-06	$764,000.00	Aug-06	Replacement of Artificial Turf & Related Work	LAN Associates	Richard Wostbrock	445 Godwin Avenue Midland Park, NJ	201-447-6400
Pennington Park Patterson, NJ		Sep-09	$624,740.00	Jan-10	Installation of Synthetic Turf and Concession	N/A			
Pequea Valley School District		Jun-03	$547,300.00	Jan-04	Install Synthetic Turf @ New Sports Facility	Rettew Associates	Tom Matteson	3020 Columbia Avenue Lancaster, PA 17603	717-394-3721
Percy Raynor Park East Setauket, NY	X	Jun-08	$638,419.86	Oct-08	Installation of Two Athletic Fields	N/A	Matt Rocchio	1130 Old Town Rd. Coram, NY 11727	631-451-6199

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Peterkin Park Amityville, NY		May-07	$531,412.50	Oct-07	Miscellaneous Improvemnts at Peterkin Park	Sidney B. Bowne & Son	William Horton Taylor	235 E. Jericho Turnpike Mineola, NY 11501	516-746-2350
Perth Amboy H.S. - Waters Athletic Field Perth Amboy, NJ		Dec-06	$946,123.06	Apr-06	Reconstruction of Waters Athletic Field / Synthetic Turf	Shore Point Architecture		108 South Main Street Ocean Grove, NJ 07756	732-774-6900
Phelps Lane Park N. Babylon, NY	X	Apr-05	$610,624.00	Jul-05	Installation of Synthetic Field	N/A	Frank Bacherty	Town of Babylon 200 E Sunrise Hwy Lindenhurst, NY 11757	631-893-2120
Piscataway High School		May-05	$928,656.00	Nov-05	Synthetic Turf Football Field & Synthetic Track	n/a	n/a	n/a	n/a
Plainedge Athletic Complex Plainedge, NY		5-11	$5,430,940.00	3/12	Installation of Athletic Field Complex at Former Middle School	Nassau Suffolk Engineering	George Henik	801 Long Island Motor Parkway Hauppauge, NY 11788	631-574-4870
Pleasantville U.F.S.D.		Oct-02	$528,000.00	Apr-03	Track and Field Renovations	KG&D	Russell Davison	60 Romer Avenue Pleasantville NY 10570	914-666-5900
Pleasantville High School Pleasantville, NJ		Jun-11	$709,970.00	Sep-11	Pleasantville High School Field Upgrades	Remington & Vernick	Charles Sabatini	845 North Main Street Pleasantville, NJ 08232	609-645-7110
PNC Field(Yankees) Lackawanna County Stadium, PA		Apr-13	$140,876.16	May-13	The Multi-Purpose Stadium	Alvin H. Butz, Inc.	Greg Butz	840 W.Hamilton St. Allentown, PA 18105	610-395-6871
Polk Street School Franklin Sq, NY	X	Sep-06	$115,236.05	Nov-06	Ballfield Reconstruction	Burton, Behrendt & Smith PC	Joe Rettig	244 East Main St. Patchogue, NY 11772	631-475-0349
Pope John XXIII H.S.		Jul-05	$210,900.00	Jul-05	Earthwork	Earthwork	n/a	n/a	n/a
Port Chester HS Port Chester, NY		Nov-06	$563,050.00	Jun-07	Athleitc Field Improvements	Fuller & D'Angelo	John D'Angelo	45 Knollwood Road, Elmsford, NY 10562	914-592-4444
Port Richmond		Feb-02	$291,700.00	Jan-03	Athletic Field Renovation	TDX Construction	Ed Dillon	85 St. Joseph Ave Staten Island, NY 10302	212-279-1981
Passaic, City of Pulaski Park		May-12	$1,956,226.18	Mar-14	Pulaski Park Improvements	Remington, Vernick & Arango	Michael Galante	300 Penhorn Ave Secaucus, NJ 07094	201-624-2137
Putnam Valley HS Putnam Valley, NY		Jul-13	$724,943.75	12/13	Synthetic Turf Field Replacement	KG&D Architects	Joe Reilly	285 Main Street Mount Kisco, NY 10549	914-666-5900
Ramsey High School		May-04	$1,221,120.60	Oct-05	Athletic Field Reconstruction, Synthetic Field Installation	LAN Associates	Richard Westbrock	445 Godwin Ave. Midland Park, NJ	201-447-6400

The LandTek Group, Completed Job List

Job Name	Designed by The LandTek Group	Start Date	Total Contract	Completion Date	Job	Architect	Contact Name	Address	Number
Randall's Island (Site Work)		Feb-05	$644,000.00	Aug-05	Athletic Field Construction & Irrigation	MFPP	Judy Lee	41 East 11th Street New York, NY	212-477-6366
Randall's Island (Synthetic Turf)		Mar-05	$462,000.00	Aug-05	Install Synthetic Turf	MFPP	Judy Lee	41 East 11th Street New York, NY	212-477-6366
Raritan High School		Mar-06	$1,281,864.10	Jul-06	Track Improvements and Synthetic Turf	Disko Associates	Ken Disko	151 Sumner Ave Kenilworth, NJ 07033	908-687-7400
Raymond O'Connor Field Soccer		Aug-03	$170,430.00	Oct-03	Install Synthetic Turf Soccer Field	Doyle Baldante, Inc.	James Doyle	535 Broad Hollow Rd. Melville, NY 11747	(631) 694-7171
Red Bull Stadium Harrison, NJ		Aug-09	$1,601,430.00	Dec-09	Playing Field @ Red Bulls Stadium	Hunter Roberts	Amir Mahmoud	550 Hills Drive Bedminister, NJ 07921	973-451-6133
Red Bulls New York @ MSU Little Falls, NJ		Nov-10	$613,584.36	Jun-11	Red Bulls Training Grounds @ Montclair State Univeristy-Pittser Field	The Louis Berger Group	John Amorosa	One Harmon Plaza, 8th Floor, Seacaucus, NJ 07094	201-583-7020
Red Bull New York Training Facility		Sep-12	$2,897,143.00	Apr-13	Red Bull New York Training Facility Soccer Field Construction	The Louis Berger Group, Inc.	John Amorosa	412 Mount Kemble Ave. Morristown, NJ 07962	973-407-1521
Reynolds Athletic Complex		Jun-06	$853,679.00	Aug-06	Athletic Complex Improvements Synthetic Turf	Leon S Avakian Inc.	Louis Lobosco	788 Wayside Road Neptune NJ 07753	732-922-9229
Rider University Lawrenceville, NJ		Apr-10	$842,360.00	May-10	Synthetic Turf Field/Site Work	Van Note Harvey	Thomas O Shea	777Alexander Rd Princeton NJ 08540	609 987 2323
Ridgefield Academy		Sep-02	$193,800.00	Nov-02	Install Synthetic Turf	N/A	Larry McDowell	223A W Mountain Rd Ridgefield, CT 06877	(203) 894-1800
Riverbank & Independence Parks (Essex County) Newark, NJ		Aug-13	$707,600.00	Apr-14	Synthetic Turf Field Replacement	NA	NA	NA	NA
Riverbank State Park New York, NY		Mar-12	$1,545,063.00	Jun-12	Main Athletic Field Replacement	NYS Office of Parks, Recreation & Historic Preservation	Chip Place	163 West 125th Street 17th Floor New York, NY 10027	212-866-3535
Riverside South Park New York, NY		Dec-07	$30,987.00	Dec-07	Install Synthetic Turf Field	Intergrated Structures Corp.	Tony Martin	37 Bethpage Road Hicksville, NY 11801	516-937-9200
Robbins Lane Park Syosset, NY		Mar-10	$1,993,000.00	Sep-10	Construction of Robbins Lane Park	Angelo Francis Corva Associates	Angelo Corva	60 Hempstead Tumpike W. Hempstead, NY 11552	516-481-9800
Robert Miner Park Rocky Point, NY	X	Oct-08	$114,005.00	Dec-08	Renovate Skinned Infield	n/a	Tom Owens	1130 Old Town Rd. Coram, NY 11727	631-451-6133

The LandTek Group, Inc. Completed Job List

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Rockaway Beach Rockaway Beach, NY		10-10	$10,468,443.49	10/13	Construction of Various Parks, Buildings and Features	Quennell Rothschild & Partners, LLP	Alison Shipley	118 West 22nd Street New York, NY 10011	212-929-3330
Rocky Point HS Rocky Point, NY		Jun-13	$1,472,600.00	12/13	Athletic Field & Track Reconstruction	John A. Grillo Architects, PC	John M. Grillo	1213 Main Street Port Jefferson, NY 11777	631-476-2161
Roosevelt UFSD HS Roosevelt, NY		7/12	$3,391,362.02	12/12	Reconstruction Site Work	Cannon Design	Mike Reed	2170 Whitehaven Road Grand Island, NY 14072	716-773-6800
Roslyn HS Roslyn, NY	X	Aug-07	$773,750.00	Oct-07	Install New Synthetic Turf Field	N/A	Roslyn UFSD PO Box 367 Roslyn, NY	Tom Mohrman	516-625-6326
Roxbury HS Roxbury, NJ		Dec-09	$568,921.25	May-10	Improvements to Athletic Field	Maser Consulting	Carl O'Brian	200 Valley Rd Ste 306 Mount Arlington NJ 07856	973 398 3110
Rye Country Day School		Jun-05	$467,850.87	May-06	Athletic Field Improvements	Woodard & Curran	Anthony Catalano	709 Westchester Avenue, Ste L2 Rye, NY 10580	914-448-2266
Sachem CSD Holbrook, NY		Jul-09	$2,388,000.00	12-09%	Athletic Field Reconstruction @ Sachem HS East, Sachem HS North & Samoset Middle School	John A. Grillo Architects	Michael Guido	1213 Main Street Port Jefferson, NY 11777	631-476-2161
Sachem H.S. - North Campus		Dec-03	$60,413.00	May-04	Trench Drains & Core Aeration, Over Seeding & Top Dressing	Fortunato & Sons	Bernard Fortunato	630 John Avenue Bohemia, NY 1716	631-567-7200
Sacred Heart Academy Hempstead, NY		6-12	$4,198,589.34	Aug-13	Cathedral Ave, Site Campus & Athletic Field Improvements	Cameron Engineering	Walter Sieber	100 Sunnyside Blvd. Suite 100 Woodbury, NY 11797	516-827-4900
Salisbury H.S. Allentown, PA		Jun-08	$812,000.00	Oct-08	Installation of Synthetic Turf Field	D'Huey Engineering		1 East Broad Street, Suite 310 Bethleham, PA	610-865-3000
Salt Dome New Hyde Park, NY		11-13	$246,100.00	12-13	Replacement of Salt Dome at DWP Complex	Town of North Hempstead	Jill Guiney	235 Denton Avenue New Hyde Park, NY 11040	(516) 739-6713
Sara D. Roosevelt Park New York, NY	X	Jun-06	$278,000.00	Aug-06	Synthetic Turf Field	N/A	Amy Blumeberg	1 Bowerman Dr. Beaverton, OR 97005	503-646-6926
Seaford High School Seaford, NY		Mar-09	$1,516,912.00	Nov-09	Athletic Field & Track Reconstruction	BBS Architects	Ken Schupner	244 E. Main St. Patchogue, NY 11772	631-475-0349

The LandTek Group, Completed Job List

Job Name	Designed by The LandTek Group	Start Date	Total Contract	Completion Date	Job	Architect	Contact Name	Address	Number
Seamans Neck Park Seaford, NY		Jun-07	$1,133,308.51	Nov-07	Installation of Artificial Turf Fields with Under Field Drainage	N/A	Clem Greico	Town of Hempstead 200 N. Franklin Ave. Hempstead, NY 11550	516-292-9000
Seton Hall University		Jun-06	$3,269,831.05	Dec-06	Installation of Synthtetic Turf	Schoor Depalma	Gerald Defilis	200 State Highway Nine Manalapan, NJ 07726-0900	732-577-9000
Sewanhaka Central High School District H.Frank Carey H.S. Franklin Square, NY		Jul-05	$166,500.00	Nov-06	Re-surface Rubber Track & Tennis Courts	n/a	n/a	n/a	n/a
Sheepshead Bay High School		Jul-04	$346,603.00	Aug-04	Synthetic Turf Athletic Field	TDX Construction Corp.	Edward Dillon	345 7th Avenue New York, NY 10001	212-279-1981
Shellem Royal & Pete Pallitto Field Atlantic City, NJ		Jul-10	$1,576,325.00	Dec-10	Installation of Synthetic Playing Surfaces at Shellem and Pallitto fields	City of Atlantic City	Bob Preston	1301 Bacharch Blvd Atlantic City NJ 08401	609 347 5360
Shetik Field Secaucus, NJ		Aug-11	$1,288,219.00	Mar-12	Field Improvements	Remington & Vernick	Jackie Foushee	300 Penhorn Ave Secaucus, NJ 07094	201-624-2137
Smithtown HS East 10 School Street Smithtown, NY 11780		Aug-10	$818,000.00	Nov-10	Athletic Field Upgrades	H2M Group	Doug Dunham	575 Broad Hollow Road Melville, NY 11747	631-756-8000
Smithtown HS West Smithtown, NY		Oct-09	$851,556.00	Jan-10	Athletic Field Upgrade - Installation of Synthetic Turf Field	H2M Group	Savario Belfiore	575 Broad Hollow Road Melville, NY 11747	631-756-8000
Solvay Senior High School		Jun-03	$116,380.00	Aug-03	Install Synthetic Field	N/A	Kevin Reynolds	8088 Montview Montreal, Quebec, Canada	(514) 340-9311
Somers High School		Oct-06	$699,875.75	Dec-06	Installation of (2) Synthetic Turf Fields	N/A	AngeloPugliese	438 Center Avenue Mamaroneck, NY 10543	(914) 698-2404
Southampton HS Southampton, NY		Aug-07	$1,088,021.25	Dec-07	Athletic Field Reconstruction with Synthetic Turf	BBS Architects	Joe Rettig	244 E. Main St. Patchogue, NY 11772	631-475-0349
South Shore High School		May-03	$505,000.00	Sep-03	Renovate Synthetic Field	TDX Construction	Ed Troise	6565 Flatlands Avenue Brooklyn NY 11236	(516) 369-0810
Springfield Gardens		Sep-01	$1,531,218.00	Apr-02	Athletic Field & Track Rehab	TDX	Jaio Maraj	143-10 Springfield Blvd, Queens, NY 11413	(212) 279-1981
St. Anthony's HS Baseball So. Huntington, NY		Nov-08	$278,750.00	Mar-09	Synthetic Turf at Baseball Field	N/A	Don Corrao	275 Wolf Hill Road So. Huntington, NY 11747	631-271-2020

The LandTek Group, Inc. Completed Job List

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St. Anthony of Padua H.S. E. Northport, NY		Aug-05	$122,000.00	Sep-05	Repairs & Modifications to Existing Parking Lot	James M. Campbell Architects	Ralph Cassetta	380 West Main Street Babylon, NY 11702	631-587-1984
St. Anthony's HS So. Huntington, NY	X	Jul-06	$1,066,900.00	Sep-06	F/I Synthetic Field w/Drainage. Track Events	N/A	Don Corrao	275 Wolf Hill Road So. Huntington, NY 11747	631-271-2020
St. Anthony's HS Indoor So. Huntington, NY	X	Nov-08	$128,348.50	Jan-09	F/I FieldTurf Synthetic Turf on Indoor Gymnasium Field	N/A	Don Corrao	275 Wolf Hill Road So. Huntington, NY 11747	631-271-2020
St. Dominic's Athletic Field Oyster Bay, NY	X	Nov-02	$2,650,192.00	May-04	New Sports Complex	N/A	Ron Tetelman	271 North Avenue New Rochelle, NY 10801	914-576-6686
St. John the Baptist H.S. West Islip, NY		Jul-05	$975,000.00	Sep-05	Track & Field Reconstruction	BBS Architects	Joe Rettig	244 E. Main St. Patchogue, NY 11772	631-475-0349
St. John the Baptist H.S. West Islip, NY	X	Dec-10	$179,007.00	Apr-11	Installation of Synthetic Turf Baseball Field	Diocese of Rockville Centre	Dirk Wojtczack	PO Box 9023 Rockville Centre, NY 11570	516-678-5800
St. Johns University Belson Stadium Jamaica, NY		Aug-03	$221,802.75	Sep-02	Soccer Field, Synthetic Turf	N/A	Kevin Reynolds	8088 Montview Montreal, Quebec, Canada	(514) 340-9311
St. Johns University Belson Stadium Jamaica, NY		Mar-12	$869,721.00	May-12	Replacement of synthetic turf at Belson Stadium	St. John's University	Craig Diana or LJ Farina	8000 Utopia Parkway Jamaica, NY 11439	516-864-3214 or 718-990-1663
St. John's University Jamaica, NY		Jun-04	$178,287.02	Jun-04	Synthetic Turf Athletic Field	N/A	Kevin Reynolds	FieldTurf 8088 Montview Montreal, Quebec, Canada	(514) 340-9311
St. John's University Jamaica, NY		12-Dec	$157,240.85	Apr-13	Reconstruction of Softball Field	Abel, Bainnson, Butz, LLP	Thomas Atela	60 8th Avenue New York, NY 10011	212-206-0630
St. John Vianney		Jul-07	$254,953.40	Aug-07	Construction for Synthetic Turf Field				
St. Joseph's College Patchogue Campus Patchogue, NY		June-10	$9,894,386.35	May-12	Construction of Athletic Field Complex	Cameron Engineering	Walter Sieber	100 Sunnyside Blvd. Plainview, NY 11797	516-827-4900
St. Joseph by the Sea High School Staten Island, NY	X	May-04	$273,377.60	Jun-04	Athletic Field Improvements & Synthetic Turf Installation	N/A	Kevin Reynolds	8088 Montview Montreal, Quebec, Canada	(514) 340-9311
St. Joseph By-The-Sea Baseball Staten Island, NY	X	Nov-05	$1,626,250.00	Oct-06	Synthetic Turf Baseball & Softball Fields	n/a	Bob Alegre	5150 Hylan Blvd Staten Island, NY 10312	718-984-6500
St. Joseph's by the Sea Staten Island, NY	X	Mar-05	$474,486.00	Aug-05	Tennis Court and Track	Tennis Court and Track	n/a	n/a	n/a

The LandTek Group, Completed Job List

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St. Mary's H.S. Manhasset, NY	X	Jul-05	$455,000.00	Sep-05	Running Track & Synthetic Field - Soccer & Lacrosse	Anthony S. DiProperzio Architects	Michael Mallia	499 Jericho Turnpike Mineola, NY 11501	516-877-7775
St. Peters		Jun-04	$65,136.00	Jun-04	Athletic Field Improvements & Synthetic Turf Installation	N/A	Kevin Reynolds	8088 Montview Montreal, Quebec, Canada	514-340-9311
St. Peter's All Boys H.S. Staten Island, NY	X	Jun-05	$1,757,228.00	Sep-06	New Synthetic Turf Field with Track and Bleacher System	N/A	John Fodera	St. Peter's Boys HS 200 Clinton Avenue Staten Island, NY	718-447-1676
Staten Island Tech HS Staten Island, NY		Aug-09	$1,072,457.00	Mar-12	Tennis Court Resurfacing	NYC School Construction Authority	Farrah Desir	30-30 Thompson Ave Long island city NY 11101	347-396-0952
Staten Island Yankees Minor League Stadium @ St. George Ball Park		Nov-01	$3,009,425.00	Nov-02	Construction of New Athletic Field. Install & Maintenance of Landscaping, Drainage, Irrigation, Topsoil and Natural Playing Surface	N/A	Brian Smith	323 West 8th St Kansas City, MO 64105	(816) 221-1576
Stevens Technical Institute		Aug-07	$675,000.00	Aug-07	Synthetic Turf Field Improvements	N/A	Henry Dobbelaar	Castle Point on Hudson Hoboken, NJ	
Stony Brook University Stony Brook, NY		Jul-01	$1,814,000.00	Apr-02	Construct Three New Athletic Fields	Tyree Organization	Lou Rispoli	120 Suffolk Hall Stony Brook, NY 11794	(631) 632-6218
Stony Brook University Track & Field Stony Brook, NY		9/10	$2,424,835.10	Nov-11	Track & Field Renovations	Stony Brook University	Marie D'Andrea	17 Flowers Field Stony Brook, NY 11794	631-632-6066
Stony Brook University Stony Brook, NY		6/13	$2,259,475.25	12-13	Multi-Use Recreational Fields by South Parking Lot	Stony Brook University Planning & Design	Larry Farrera	100 Nicholls Road Stony Brook, NY 11790	631-632-3175
Suffern Middle School		Nov-05	$4,523,140.00	Jun-06	Suffern Middle School Athletic Field Improvements	Ward Associates	John R. Longo	1500 Lakeland Avenue Bohemia, NY 11716	631-563-4800, ext. 25
Suffolk PAL Sports Complex	X	Dec-05	$235,000.00	Jan-06	Install Synthetic Field w/Drainage	N/A	George Waldbaur	Suffolk PAL Police Headquarter PO Box 26 Yaphank, NY 11980	631-852-6107
Sullivan Field Borough of Carteret, NJ		Jan-11	$403,664.50	Mar-11	Synthetic Turf Installation	Gallen Contracting	Brendan Allen	510 Hudson Street Hackensack, NJ 07601	201-641-4288

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SUNY Stony Brook		Jun-09	$446,490.00	Jun-09	Synthetic Turf Replacement	N/A	Kevin Rooney	Stony Brook Univeristy 120 Suffolk Hall Stony Brook, NY 11794	631-632-6222
Stony Brook University Baseball Field Stony Brook, NY	X	Oct-10	$1,162,175.00	Jun-11	Baseball Field Construction	N/A	Kevin Rooney	Stony Brook Univeristy 120 Suffolk Hall Stony Brook, NY 11794	631-632-6222
Strath Haven High School Wallingford, PA 19086		Jun-13	$295,433.89	Oct-13	Site Work	ELA Sport		743 South Broad Street Lititz, PA 17543	(717) 626-7271
Syosset-Woodbury Town Park	X	Nov-05	$1,150,095.00	May-06	F/I Synthetic Field w/Drainage	N/A	Greg Skupinsky	Town of Oyster Bay 977 Hicksville Road Massapequa, NY 11758	516-797-4165
Tanner Park Coplague, NY	X	Apr-06	$373,561.00	Jun-06	F/I Synthetic Field w/Drainage	N/A	Frank Bacherty	Town of Babylon 200 E. Sunrise Hwy Lindenhurst, NY	631-893-2120
Tappan Zee High School		Jan-06	$3,003,860.00	Aug-07	Renovations and Field Improvements	Cannon Design	John Sobiecki	330 Broadway Albany, NY 12207	518-426-4502
Temple University Philadelphia, PA		Feb-14	$2,005,750.84	14-Jul	Synthetic Turf Field Replacement	Maser Consulting PA	Rich Roseberry	1630 Pine Street Philadelphia, PA 19103	(610) 866-4201
The Masters School Dobbs Ferry, NY		Aug-11	$403,500.00	11-Oct	Installation of synthetic turf field	Peter Gisolfi Associates	Ronan Wilk	568 Warburton Avenue Hastings-On-The Hudson NY 10706	914-478-3677
Theodore Roosevelt Park Town of Oyster Bay		May-14	$257,855.52	14-Jun	Concrete Improvements	N/A		W. End Avenue, Oyster Bay NY	
The Wedge @ Heritage Park Mount Sinai, NY	X	May-08	$803,350.00	Jun-08	Installation of Synthetic Field with Underfield Drainage	N/A	Matt Rocchio	1130 Old Town Rd. Coram, NY 11727	631-451-5199
Tiger Hollow		Apr-01	$810,000.00	Oct-01	Build Field, Running Track, Drainage & Site Work	N/A	John Hennessey	700 N. Salem Rd Ridgefield, CT 06877	(203) 431-1935
Tottenville High School Staten Island, NY		Oct-07	$442,425.11	Dec-07	Installation of Synthetic Turf Field	William A. Gross Construction Associates	John Scopolito @ William A. Gross Construction	117 South 4th Street New Hyde Park, NY 11040	N/A
Town of Brookhaven		Sep-04	$393,728.13	Nov-04	F/I Sod @ Various Locations	N/A	Don Mulholland	1130 Old Town Rd Coram, NY 11727	(516) 315-6235

Job Name	Designed by The LandTek Group	Start Date	Total Contract	Completion Date	Job	Architect	Contact Name	Address	Number
Town of Oyster Bay Tennis Courts at Various Town Park		Jul-10	$193,650.00	Nov-10	Tennis Court Resurfacing at Various Town Parks	Gibbons, Esposito & Boyce Engineers, PC	John Purga	50 Charles Lindberg Blvd Suite 503 Uniondale, NY 11553	516-222-4522
Town Of Ridgefield		Jun-02	$270,000.00	Sep-02	Running Track, Site Work, Drainage & Athletic Field Construction	N/A	John Hennessey	700 N. Salem Rd Ridgefield, CT 06877	(203) 431-1935
Triangle Park Hicksville, NY	X	Mar-06	$1,071,034.50	May-06	F/I Synthetic Field w/Drainage	Cameron Engineering	Leonard LaSala	3 Aerial Way Suite 100 Syosset, NY 11790	516-827-4900
Tuckahoe MS/HS		Aug-07	$411,256.90	Aug-07	Installation of Multi Use Synthetic Turf Field	N/A	Angelo Pugliese @ DeRosa Tennis Constractors, Inc.	P.O. Box 430 438 Center Avenue Mamaroneck, NY 10543	914-698-2404 X103
Tully Park		Oct-04	$58,114.60	Nov-04	BB Field Renovations w/ Synthetic Turf Installation	N/A	Jerry Olsen	Town of N. Hempstead 1801 Evergreen New Hyde Pk, NY 11040	(516) 327-3110
Tully Park Stadium New Hyde Park, NY	X	May-05	$1,110,015.65	Oct-05	F/I Synthetic Track & Field w/Drainage	n/a	Jerry Olsen	Town of N. Hempstead 1801 Evergreen Ave New Hyde Park, NY 11040	516-327-3110
Union Catholic HS		Aug-09	$998,650.00	Dec-09	Installation of Field	Suburban Consulting Engineers	Daren Phil	100 Valley Road Suite 202 Mount Arlington , NJ 07856	973-398-1775
Unionville HS Kennett Square PA		May-09	$532,325.00	Aug-09	Installation of Synthetic Turf	N/A	FieldTurf - Jeff Yoos	8088 Montivew, Montreal,, QC, Canada H4P2L7	
United States Merchant Marine Academy Kings Point, NY		Apr-11	$1,401,900.00	Nov-11	Installation of Synthetic Turf @ Tomb Field	US Maritime Administration	Bruce Markman	1200 New Jersey Ave SE 2nd Floor, W28-201 Washington DC 20590	202-366-1942
University of Richmond, Richmond VA		Jun-12	$360,100.00	Oct-12	Storm Water Drainage System	Draper Aden Associates	Justin Cornwell	2206 S. Main Street Blacksburg, VA 24060	804-264-2228
Upper Tatlock Field Summit, NJ		Jul-07	$291,700.00	Nov-07	Installaion of Synthetic Turf Field	Maser Consulting	Carl O'Brien	200 Valley Road Suite 400 Mount Arlington, NJ	973-398-3110
Ursuline School; The New Rochelle, NY		6/12	$1,792,666.00	Jan-13	Athletic Field Improvements	Woodard & Curran	Tom Shay	709 Westchester Ave. White Plains, NY 10605	914-448-2266
Valley Stream Little League Valley Stream, NY	X	Aug-07	$167,800.00	Nov-07	Installation of 60' Baseball Field	N/A	Christopher Viggiano	PO Box 544 Valley Stream NY 11582	516-236-2352

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Vander Plaat Ballfield Fair Lawn, NJ		Jun-09	$787,200.00	Jul-09	Installation of Synthetic Turf	Borough of Fair Lawn	Kenneth Garrison	8-01Fair Lawn Ave Fair Lawn NJ 07410	201 796 5667
Venetian Shores Park Lindenhurst, NY	X	Dec-04	$532,560.00	Dec-04	Installation of Synthetic Field	N/A	Frank Bacherty	Town of Babylon 200 E Sunrise Hwy Lindenhurst, NY 11757	(631) 893-2120
Ventnor Educational Communiy Complex		Oct-08	$132,185.00	Apr-09	Improvements to 3 Recreationa Fields	Robert Bruce & Associates	Robert Bruce	91 Mays Landing Road Somers Point N.J 08244	609-926-2212
Veteran's Memorial Park Smithtown, NY	X	Mar-06	$ 606,000.00	Jun-06	F/I Synthetic Field w/Drainage	N/A	Chuck Barrett	Town of Smithtown Dept of Parks 100 Rt. 25A Kings Park, NY	631-269-1122
Veteran's Memorial Park Smithtown, NY		Jul-09	$ 649,000.00	Sep-09	Installation of Synethetic Turf Field with Drainage	n/a	Chuck Barrett	Town of Smithtown Dept of Parks 100 Rt. 25A Kings Park, NY	631-269-1122
Wagner College Staten Island, NY	X	Jun-06	$240,702.32	Sep-06	Base Construction for Synthetic Field	n/a	Jean Ducharme	FieldTurf USA 8088 Montview Rd Montreal, Quebec, H4P 2L7	800-724-2969
Walton Athletic		Oct-02	$627,000.00	Apr-03	Athletic Field and Track Rehabilitation	TDX Construction	Jaio Maraj	345 Seventh Avenue NY NY 10001	(212) 279-1981
Walton Synthetic		Dec-02	$144,677.52	Mar-03	Synthetic Turf	TDX Construction	Jaio Maraj	346 Seventh Avenue NY NY	(212) 279-1981
Walt Whitman HS Huntington Station, NY		Nov-07	$998,237.00	May-08	Installation of Synthetic Field with Underfield Drainage	H2M Group	Saverio Belfiore	575 Broad Hollow Rd. Melville, NY 11747	631-756-8000
Wantagh H.S. Wantagh, NY		June-08	$878,744.00	Sep-08	Installation of Synthetic Turf Field	J.A. Grillo Architect		1213 Main Street Port Jefferson, NY 11777	631-476-2161
Ward Melville High School Setauket, NY		Jun-08	$1,516,407.70	Sep-08	Contract #1 - Installation of Synthetic Field with Underfield Drainage	John A. Grillo Architects		1213 Main Street Port Jefferson, NY 11777	631-476-2161
Ward Melville High School Setauket, NY		Jun-08	$737,580.00	Oct-08	Contract #2 - Site Work & Tennis court Reconstruction	John A. Grillo Architects	John Grillo Jr.	1213 Main Street Port Jefferson, NY 11777	631-476-2161
Warwick SD Stadium Warwick, NJ		Apr-10	$1,085,898.00	Jul-10	Synthetic Turf Field and Site Work	ELA Group	Paul Artale	301 W Orange St. Lititz PA 17543	717-626-7040
Washington Street Elementary School Franklin Square, NY		Jun-08	$379,458.50	Jul-2008	Installation of Synthetic Field with Underfield Drainage	Burton Behrendt & Smith Architects	Ken Schupner	244 East Main St. Patchogue, NY 11772	631-475-0349

The LandTek Group, Completed Job List

Job Name	Designed by The LandTek Group	Start Date	Total Contract	Completion Date	Job	Architect	Contact Name	Address	Number
Washington Avenue Park Seaford, NY		Nov-09	$181,440.00	May-2010	Installation of Synthetic Turf Field	Ward Associates	Curt Coronato	1500 Lakeland Avenue Bohemia, NY 11716	631-563-4800
Washington Street Elementary School - Contract #2 Franklin Square, NY		Sep-08	$1,000,388.00	Dec-2008	Installation of Synthetic Field with Underfield Drainage	Burton Behrendt & Smith Architects	Ken Schupner	244 East Main St. Patchogue, NY 11772	631-475-0349
Washington Township High School		Jun-05	$2,035,000.00	Sep-05	New Track & Fields	Joseph McKernan Jr., Architect & Assoc.	John McQuilkin	100 Dobbs Lane Suite 204 Cherry Hill, NJ 08034	856-616-2960
Watsessing Park Bloomfield, NJ		10-Jun	$1,491,196.00	Nov-10	Field Improvements	County of Essex	Leonard Sorge	465 Dr. Martin Luther King Blvd, Newark, NJ	973-621-5100
Westbury High School Westbury, NY		10-Sep	$160,705.00	Dec-10	Relocate Baseball Field & Install Fencing	Excel Builders Group	Joe Levin	2171 Jericho Turnpike Commack, NY 11725	631-462-1995
West Essex High School		Aug-04	$124,225.02	Aug-04	Athletic Field Improvements & Synthetic Turf Installation	N/A	Kevin Reynolds	8088 Montview Montreal, Quebec, Canada	514-340-9311
Wesley Bishop Park-North Township of Moorestown		Oct-12	$1,338,171.12	Mar-14	Recreation Field Improvements	Alaimo Group	Brian Lafferty	200 High St. Mt. Holly, New Jersey 08060	609-267-8310
West Islip High School West Islip, NY		Jul-09	$1,585,250.00	Dec-09	District Wide Capital Improvements & Facilility Upgrades - Phase I	BBS Architects	Joe Rettig	244 E. Main St. Patchogue, NY 11772	631-475-0349
West Orange H.S. West Orange, NJ		Nov-03	$1,154,831.52	Jun-04	Athletic/Synthetic Field Constructions	Schoor DePalma, Inc.	Eric Mattes	Justin Corporate Ctr 20 State Highway Nine P.O. Box 900 Manalapan, NJ 07726	732-577-9000
West Side Park		Mar-06	$2,570,511.96	Dec-06	Rehabilitation of Football and Soccer fields and Track	Hatch Mott McDonald	Brian Clemson	27 Bleeker Street Millburn, NJ 07041-1008	973-912-7519
Westbury H.S. Westbury, NY		Jul-05	$884,383.00	Oct-05	Track & Field Reconstruction	Spector Group	Michael Spector	3111 New Hyde Pk Rd N. Hills, NY 11042	516-365-4240
Wheeler Park Linden, NJ		Aug-12	$850,211.72	Apr-13	Construction of Artificial Turf & Lights at Wheeler Park	Birdsall Services Group	Dave Testa	65 Jackson Dr. Cranford, NJ 07016	908-497-8900

The LandTek Group, Inc. Completed Job List

Job Name	Designed by The LandTek Group	Start Date	Total Contract	Completion Date	Job	Architect	Contact Name	Address	Number
White Plains High School/Middle School White Plains, NY		Jul-07	$6,428,748.41	May-08	Athletic Fields, Running Tracks and Bleachers at 2 Schools	KGE&D	Walter Hauser	Melville, NY 11747	914-686-5900
Whitney Field Schreiber HS Port Washington, NY	X	Aug-06	$546,825.00	Oct-06	F/I Synthetic Field with Drainage	BBS Architects	Joe Rettig	244 E. Main St. Patchogue, NY 11772	631-475-0349
William Grady High School		Oct-06	$439,509.63	Dec-06	Installation of Synthetic Turf	Sammens Associates		358 Saw Mill River Rd., Millwood, NY 10546	914-762-2340
Williams Field, Elizabeth Board of Education		Sep-06	$715,300.00	Mar-06	Williams Athletic Field Artificial Turf System	Bearsch Compeau Knudons	Robert Watts	41 Chenango St. Binghamton, NY 13901	607-772-0007
Wilson Park Tarrytown, NY		Oct-12	$281,150.00	Apr-13	Wilson Park Soccer Field	Toll Brothers	Chris Badger	100 Wilson Park Drive Tarrytown, NY 10591	914-631-8655
Woodbridge High School Woodbridge, NJ		Jul-07	$880,620.00	Dec-07	Synthetic Turf Improvements	CME	David Coats	3141 Bordentown Ave. Parlin, NJ 08859	732-727-8000
Woodlands Legacy Ballfield Yorktown Heights, NJ		Sep-10	$370,500.00	Dec-10	Synthetic Turf Installation	MPCC Corp	Fred Lalezarian	81 Rockdale Avenue New Rochelle, NY 10801	914-636-0000
Woodman Complex Football Field		Aug-04	$1,269,638.00	Oct-05	Football Field Complex	Jeffrey L. Bruce Company L.L.C.	Brian Davis		816-842-8999
Woodmere Middle School Woodmere, NY		12-09	$450,370.00	12-09	Synthetic Turf Field	GII Construction	Howard Siegler	3391 Merrick Road Wantagh, NY 11793	516-826-1300
Woodson High School		May-13	$1,377,062.06	Oct-13	Synethic Turf Field Install	Leading Design & Development		13384 berlin Turnpike Lovettsville, VA 20182	(571) 423-2213
Yanticaw Park Nutley, NJ		Jul-09	$1,012,797.00	Dec-09	Ballfield Improvements	Hatch Mott MacDonald	Jason Harkins	27 Bleeker St Millburn NJ 07041	973 9122439
Yeshiva Ketana of Long Island Inwood, NY	X	Jun-13	$68,250.00	Aug-13	Installation of FieldTurf Synthetic Turf	Yeshiva Ketana of Long Island Inwood, NY	Rabbi Ari Ginian	321 Doughty Blvd. Inwood, NY 11096	516-791-2800

LANDTEK EQUIPMENT LIST

Description	Equipment Type	Make	Model	Year
IMC Air Compressor	Air Compressor	IMC	2475	2006
Kaeser Air Compressor	Air Compressor	Kaeser	210	2007
Kaeser Air Compressor	Air Compressor	Kaeser	210	2007
Ingersol Rand Air Compressor	Air Compressor	Ingrsl Rnd	unk	
Sullair Air Compressor	Air Compressor	Sullair	185DPQ-JD	2005
Kaeser Air Compressor	Air Compressor	Keaser	M57	2006
Kaeser Air Compressor	Air Compressor	Kaeser	M57	2006
Atlas Copco Air Compressor	Air Compressor	Atlas Copc	XAS96 (JD)	2003
Toro Pro Core 880	Aerator	Toro Procr	880	2003
AERA-Vator AE-80 Aerator	Aerator	AERA-Vator	AE-80	1995
PRO CORE 880	Aerator	PRO CORE	880	2005
Aero-Vator UA80	Aerator	Aera-Vator	UA80	2007
ProCore Aerator 1298	Aerator	ProCore	1298	2008
Aerator	Aerator	Aera-vator	UA60	2010
Soil Reliever	Aerator		SR7SHD	2003
McMillen X-1850 Auger	Auger	McMillen	X 1850	1994
AUGER 24710 (For Skidsteer)	Auger	Bobcat	24710	2005
Worksite Auger	Auger	Worksite	PA 30	2010
John Deere PA30 Auger	Auger	John Deere	PA30-1975	2011
Auger - tracking only	Auger	unk	unk	
Auger - Tracking only	Auger	unk	unk	
CAT 426C Loader	Backhoe	Caterpillr	426C	2000
CAT 420DIT	Backhoe	Catepillar	420DIT	2002
CAT 430D Backhoe	Backhoe	Caterpillr	430D	2003
John Deere 310 SG	Backhoe	John Deere	310SG	2001
John Deere 310SJ backhoe	Backhoe	John Deere	310SJ	2011
John Deere 410J Backhoe	Backhoe	John Deere	410J	2012
John Deere 410J Backhoe	Backhoe	John Deere	410J	2010
Giant Vac Ground Blower	Blower		80BP-IC	
Sweepster Box Broom	Broom	Attachment	VR56M0022	
Skidsteer Angle Broom attach	Broom	Melr/Bobct	6905805	2008
Bull Slope Power Screed	Bull Slope	MBW	WS500 powr	2011
Concrete Auger Bucket	Concrete Bucket	Danuser	Mixng 3120	2009
Concrete Auger Bucket	Concrete Bucket	Danuser	Mixng 3120	2010
Concrete Auger Bucket	Small Tools Fence	Danuser	Mivng 3120	2009
Brush Bandit 254 Chipper	Chipper	Brush Bndt	254	2003
Laptop for Impact Test System	Impct Tst Systm Lptp	Panasonic	CF-29	2000
Wyco concrete vibrator	Concrete Vibrator	Wyco	Bckpck unt	2011
Wyco concrete vibrator	Concrete Vibrator	Wyco	BckPck Unt	2011
Northrock concrete vibrator	Concrete Vibrator	Wyco	2 cycle	2011
15' Drag Brush Groomer	Drag	Groomer	15' Drag	

LANDTEK EQUIPMENT LIST

Description	Equipment Type	Make	Model	Year
15' Drag Brush Groomer	Drag	Field Turf	15'	2009
Pronovost P516-3S	Dump Trailer	Provost	P516/3S	2001
Pronovost P516-3S	Dump Trailer	Pronovost	P516/3S	2002
Pronovost P516-3S	Dump Trailer	Pronovost	516-3S	
Pronovost P516-3S	Dump Trailer	Pronovost	516-3S	
CAT D4CXL	Dozer	Caterpillr	D4CXL	2001
John Deere 650J	Dozer	John Deere	650J	2005
Komatsu D51PX-22	Dozer	Komatsu	D51PX-22	2009
650 J Dozer	Dozer	John Deere	650J	2010
Komatsu D39EX-22 dozer	Dozer	Komatsu	D39EX-22	2011
John Deere 650 J Dozer	Dozer	John Deere	650J	2011
Komatsu D39EX-22	Dozer	Komatsu	D39EX-22	2011
John Deere 650J Dozer	Dozer	John Deere	650J	2012
John Deere 650K Dozer	Dozer	John Deere	650K	2013
Emission Meter	Emission Meter	Wager	7500 CPFI	2012
Hitachi EX330LC	Excavator	Hitachi	EX330LC	2000
Bobcat 334D	Excavator	Bobcat	334D	2002
Komatsu PC 160	Excavator	Komatsu	PC160LC-7K	2005
John Deere 80 C Excavator	Excavator	John Deere	80C	2007
Bobcat 334G w/ bucket	Excavator	Bobcat	BC334G	2006
John Deere Mini Excavator	Excavator	John Deere	50 DXFF	2010
John Deere Mini Excavator	Excavator	John Deere	27D	2011
John Deere 350DLC Excavator	Excavator	John Deere	350DLC	2011
Hyundai Excavator w/coupler	Excavator	Hyundai	R60-9 excv	2011
John Deere 135D Excavator	Excavator	John Deere	135D	2011
John Deere 85D Excavator	Excavator	John Deere	85D	2010
BobCat 337 Excavator	Excavator	BobCat	337	2007
Bobcat E50 Excavator	Excavator	Bobcat	E50	2013
Manitou Forklift	Fork Lift	Manitou	TMT320-FLH	2001
Gradall Forklift - G6	Fork Lift	Gradall	G6-42A	2003
Manitou Forklift	Fork Lift	Manitou	TMT320	2002
Manitou Forklift	Fork Lift	Manitou	TMT55HTFL	2008
Toyota Fork Lift	Fork Lift	Toyota	7FDU35	2005
Manitou Forklift	Fork Lift	Manitou	TMT320 FLH	2005
JLG Forklift - G9	Fork Lift	JLG	G9-43A	2005
Hyster Forklift	Fork Lift	Hyster	H80XM	1996
Gradall G6 Forklift	Fork Lift	Gradall	G642A	2006
Komatsu Forklift	Fork Lift	Komatsu	FD45T2-8	2006
Manitou Fork Lift	Fork Lift	Manitou	TMT55	2012

LANDTEK EQUIPMENT LIST

Description	Equipment Type	Make	Model	Year
Gannon Grading Box (NH545D)	Grading Implement	Gannon	4X4HXD	1999
Dakota 1400 Soil Mover 14'	Grading Implement	Dakt / Tor	1400	1997
Dakota 800 Soil Mover	Grading Implement	Dakt / Tor	800	1997
Dakota 400 Soil Mover	Grading Implement	Dakt / Tor	400	1996
York Rake	Grading Implement	York	RW	
York Rake	Grading Implement	York	RW	
Soil Mover with Vibration Pole	Grading Implement	Dakota	1012	2003
King Kutter 6' Box Blade(yell)	Grading Implement	King Kuttr	Box Bld 6'	2004
Grouser Skid Steer Dozer Blade	Grading Implement	Grouser	1370A5B3	
Dakota 16' Grading Box	Grading Implement	Dakota	Slmovr 16'	2006
United 784 Box Blade (track)	Grading Implement	United	784 HD	
Storr soil mover	Grading Implement	Storr	LOCN	
16' Soil Mover	Grading Implement	Dakota	C1016	2013
ProFlex G5135	Glue Machine	ProFlex	G5135	2005
ProFlex G5135 (8299)	Glue Machine	ProFlex	G5135	2006
Benchmark 315	Glue Machine	Benchmark	315	2006
ProFlex G5135 (2248)	Glue Machine	ProFlex	G5135	2008
Benchmark 315 (8377)	Glue Machine	Benchmark	315	2008
Benchmark 315	Glue Machine	Benchmark	315	2008
Benchmark 315	Glue Machine	Benchmark	315	2008
Proflex G5135	Glue Machine	ProFlex	G5135R40F	2009
Benchmark 315 (3407)	Glue Machine	Benchmark	315	2009
Benchmark 315	Glue Machine	Benchmark	315	2011
Benchmark 315	Glue Machine	Benchmark	315	2011
ProFlex G5135	Glue Machine	ProFlex	G5135	2012
FFC Preporator Aerator	Ground Preporator	FFC	LAF3576	2001
FFC Preporator Aerator	Ground Preporator	FFC	3576	2002
Tufline Disc 8'	Ground Preporator	Tufline	TXH92022B	1990
F.W.Pettit LTP Moulton Disc 8'	Ground Preporator	F.W.Pt LTP	Moulton	1990
FFC Preparator (Broom) 76"	Ground Preporator	FFC	LAF3576-00	2003
King Kutter Disc Harrow	Ground Preporator	King Kuttr	Dis Har 8'	
Impact Test System	Impact Test System	Bio mechnc	3060MI	2005
B950 Hydraulic Breaker	Hydraulc Brkr(hammer)	Bobcat	B950	
Hydraulic Hammer Attachment	Hydraulc Brkr(hammer)	Okada	TOP35	2010
Indeco Hydraulic Hammer	Hydraulc Brkr(hammer)	Indeco	HP750	2011
Edge Hydraulic Breaker	Hydraulc Brkr(hammer)	Edge	EBX550-FX-	2011
Infill Eliminator	Infill Eliminator	Redexim	Eliminator	2011
Infill Eliminator	Infill Eliminator	Redexim	Eliminator	2011
Rattlesnake Infill Extractor	Infill Eliminator	Rattlesnak	R001-001	2013
Wrangler Base Unit Eliminator	Infill Eliminator	TRS	W. W001-00	2013
Viper attach/Wrangler IE04	Infill Eliminator	TRS	V V001-001	2013

LANDTEK EQUIPMENT LIST

Description	Equipment Type	Make	Model	Year
Winder attach/wrangler	Infill Eliminator	TRS	SIS001-001	2013
Jumping Jack Rammer	Jumping Jack	Wacker	BS50-2I	2010
MBW Jumping Jack Tamper	Jumping Jack	MBW	R422	2012
Wacker Jumping Jack Tamper	Jumping Jack	Wacker	BS60-4	2010
Mikasa Jumping Jack	Jumping Jack	Mikasa	MT-74F	
MBW Jumping Jack Tamper	Jumping Jack	MBW	R422	2013
Jumping Jack - tracking only	Jumping Jack	Wacker	BS50-21	
MBW R422 Rammer	Jumping Jack	MBW	R422	2013
Office (Job) Trailer	Job Trailer	Wilm Sctsm	Office	1999
Office (Job) Trailer	Job Trailer	Willm Scts	CBS 24'8'	2007
Office (Job) Trailer	Job Trailer	Miller	offic trlr	1988
Office (Job) Trailer	Job Trailer	CBS	24' X 8'	1987
Office Trailer 8x20	Job Trailer	Cassone	8x20	2010
office storage trailer	Job Trailer	ModSpace	8x28	2011
office storage trailer	Job Trailer	ModSpace	8x28	2011
office storage trailer	Job Trailer	ModSpace	8x28	2011
office storage trailer	Job Trailer	ModSpace	8x28	2011
Leica Data Collector	Laser	Leica	Viva	2010
Robotic Survey Instrument	Laser	Leica Viva	TCRP1203+R	2010
GPS Recievер	Laser	Sokkia	GRX1/U	2012
GPS Receiver	Laser	Sokkia	GRX1/U	2012
Sokkia Data Collector	Laser	Sokkia	SHC-2500	2012
Geith Mechanical Thumb	Mechanical Thumb	Geith	EX12A012	2011
Toro GM 328-D 6' Mower	Mower	To/ Gr Mst	30626	2002
Toro GM 4000-D 11' Mower	Mower	Tor /Gr Ms	30410	2002
Toro Groundmaster 4000-D	Mower	Toro	4000-D	2001
Stone 1 Bag Mixer - Blue Frame	Mixer	Stone	1 Bag Mixr	
MBW Concrete Mixer	Mixer	MBW	CM6	2011
9 cu' Cement Mixer	Mixer	Multi Quip	9 cu' stl	2011
Mikasa Jumping Jack	Plate Compactor	Mikas Tmpr	MT-65 H	2002
Mikasa Plate Compactor	Plate Compactor	Mikas Tmpr	MVC77SH	2002
MBW Plate Compactor	Plate Compactor	MBW	GP 3000	2002
Mikasa Plate Compactor	Plate Compactor	Mikas Tmpr	MVC77H	2002
Multi Quip Plate Compactor	Plate Compactor	Multi Quip	MVC77H	
Multiquip Plate Compactor	Plate Compactor	Multi Quip	20" Plt Cm	2006
MultiQuip Plate Compactor	Plate Compactor	Multi Quip	20" Plt Cm	2006
Plate Compactor	Plate Compactor	MBW	20"	2006
MulitQuip Plate Compactor	Plate Compactor	Multi Quip	20" cmpctr	2006
Plate Tamper 20"	Plate Compactor	Mikas Tmpr	MVC88VGW	2006
Plate Compactor tracking only	Plate Compactor	Wacker	1550AW	2008
MBW Plate Compactor	Plate Compactor	MBW	3550	

LANDTEK EQUIPMENT LIST

Description	Equipment Type	Make	Model	Year
Multi Quip Jumping Jack	Plate Compactor	Multi Quip	MTX70	2009
Vib Plate Tamper Tracking only	Plate Compactor	Wacker	W1500AW	2010
Jumping Jack (tracking only)	Plate Compactor	Wacker	BS50-2I	2010
Multi Quip Pl.com (track only)	Plate Compactor	Multi Quip	MVC90H	2007
Plate Compactor STOLEN?	Plate Compactor	Wacker	WP1550AW	2010
Plate Compactor tracking only	Plate Compactor	Multi Quip	MVC82VHW	2010
Plate Tamper	Plate Compactor	MBW	GP5500	2011
MBW Plate Compactor	Plate Compactor	MBW	GP2000	2011
MBW Plate Compactor	Plate Compactor	MBW	GP2000	2011
MBW plate compactor	Plate Compactor	MBW	AP3550	2011
MBW Plate Compactor	Plate Compactor	MBW	AP3550	2011
MBW Plate Compactor	Plate Compactor	MBW	GP5800	2012
MBW Plate Compactor	Plate Compactor	MBW	GP3550	2012
MBW Plate Compactor	Plate Compactor	MBW	GP5800	2011
Plate Compactor - tracking onl	Plate Compactor	Wacker	WP1550 AW	
MBW Plate Tamper	Plate Compactor	MBW	GP5800	2013
MBW Plate Tamper	Plate Compactor	MBW	GP5800	2013
MBW Air Plate Tamper	Plate Compactor	MBW	GP3550	2013
MBW Air Plate Tamper	Plate Compactor	MBW	GP3550	2013
MBW Air Plate Tamper	Plate Compactor	MBW	GP3550	2013
Plasma Cutter	Plasma Cutter	Hydrotherm	PMX65	2013
Industrial Hot Pressure Washer	Pressure Washer	Nrt Str I.	1573261	2002
Rebar Bender	Rebar Bender	Rod Chompr	CBPG8	2004
Hamm 6 ton roller	Roller	HAMM	HD12	1995
Pac 3100 3 Ton roller	Roller	Wolf Pack	DDR-3100	1995
Dynapac Dirt Roller 12 Ton 262	Roller	Dynapac	CA262D	1998
Wolf Pack Stone Roller 2500	Roller	Wolf Pack	WP 2500	
Dynapac 262 12 ton	Roller	Dynapac	CA262D 84"	1999
Dynapac 252 10 ton	Roller	Dynapac	CA252D	2000
HAMM 6 ton Vibratory roller	Roller	HAMM	HD12	2007
Bomag 211D-40 Roller	Roller	Bomag	211D-40	2011
Bomag BW211D-40 Roller	Roller	Bomag	BW211D-40	2007
Wacker walk behind roller	Roller	Wacker	RT82-SC	2007
Bomag BW120AD-4 roller	Roller	Bomag	BW120AD-4	2007
Bomag Roller	Roller	Bomag	211D-40	2008
Dynapac Roller	Roller	Dynapac	CC122	2004
Bobcat 52" Rototiller	Rotor Tiller	Bobcat	52" (used)	
Bobcat 68" Rototiller	Rotor Tiller	Bobcat	68"	2003
Rotadairon Soil Renovator	Rotor Tiller	Rotadairon	RD150	2002
Kuhn Rototiller	Rotor Tiller	Kuhn	EL102-300	2007
Unifarm Rototiller	Rotor Tiller	Unifarm	Oct-74	2008
Kuhn EL 62 Rototiller	Rotor Tiller	Kuhn	EL 62	2011
Kuhn EL62-210 Roto Tiller	Rotor Tiller	Kuhn	EL62-210	2011
Kuhn EL92-230 Roto Tiller	Rotor Tiller	Kuhn	EL92-230	2011
Kuhn EL62-210 Roto Tiller	Rotor Tiller	Kuhn	EL62-210	2011
Honda 853E Rototiller w.attach	Rotor Tiller	Honda	853E	2011
Kuhn Rottotiller	Rotor Tiller	Kuhn	EL-122-300	2013
Snow Blade 84"	Snow Blade	FCC EDGE	SP84 (5033	2009
Ryan Sod Cutter	Sod Cutter	Ryn Sod Ct	544945	2002
Ryan Sod Cutter	Sod Cutter	Ryn Sod Ct	544945	1999
Ryan Sod Cutter	Sod Cutter	Csh Jr. Sd	544845A	1997
Ryan Sod Cutter	Sod Cutter	Ryn Sod Ct	1545	2000
Ryan Sod Cutter	Sod Cutter	Sod Cut J.	544945	2002
Ryan Cod Cutter	Sod Cutter	Ryan	Sod Cutter	2002

LANDTEK EQUIPMENT LIST

Description	Equipment Type	Make	Model	Year
Vicon Spreader	Spreader	Vicon	22109/J272	1995
Turbo Op Pendualr Fert Spread	Spreader	Befco	16-303-800	2004
Vicon Fertilizer Spreader	Spreader	Vicon	PS604DM	2006
Vicon Seeder Spreader	Spreader	Vicon	PS604	2011
Rayco Stump Grinder	Stump Grinder	Rayco	1625 JR	
New Holland L170	Skid Steer	New Hollnd	L170	2009
John Deere Skid Steer	Skid Steer	John Deere	240	2003
Bobcat T300 Skid Steer	Skid Steer	Bobcat	T300	2010
Bobcat T750 track loader	Skid Steer	Bobcat	T750	2011
Bobcat T750 track loader	Skid Steer	Bobcat	T750	2011
Bobcat S750 Skid Steer Loader	Skid Steer	Bobcat	S750	2011
TAKEUCHI Skid Steer	Skid Steer	TAKEUCHI	TL250CR	2011
Bobcat T750 Track loader	Skid Steer	Bobcat	T750	2011
Bobcat T750 Track Loader	Skid Steer	Bobcat	T750	2011
Bobcat T750 Track Loader	Skid Steer	Bobcat	T750	2011
Bobcat T750 Track Loader	Skid Steer	Bobcat	T750	2011
Bobcat Skid Steer	Skid Steer	Bobcat	S250	2007
Bob Cat T750 Skid Steer	Skid Steer	Bob Cat	T750	2013
Bob Cat T750 Skid Steer	Skid Steer	BobCat	T750	2013
BobCat T750 Skid Steer	Skid Steer	BobCat	T750	2013
Bobcat T750 Skid Steer	Skid Steer	Bobcat	T750	2013
Sewing Machine	Sewing Machine	Union Spcl	D0L12L/807	
Sewing Machine	Sewing Machine	Union Spcl	80700	
Sewing Machine	Sewing Machine	Union Spcl	80700C2M 2	2006
Sewing Machine	Sewing Machine	Union Spcl	80700 C2M	2007
Sewing Machine	Sewing Machine	Union Spcl	TSM1SN	2008
Sewing Machine	Sewing Machine	Union Spcl	4 thread	2009
Sewing Machine	Sewing Machine	Union Spcl	4 Thread	2009
Toro Sand Pro	Sand Pro	Toro	5020	
Toro Sand Pro	Sand Pro	Toro		
Toro Sand Pro 880	Sand Pro	Toro	880	2001
Brillion Seeder	Seeder	Brillion	SLP-208	1998
Brillion Seeder	Seeder	Brillion	Trf Makr 2	2004
Moore Unidrill Seeder	Seeder	Moore	Unidrll 6'	
Moore Unidrill Seeder	Seeder	Moore		
Genisis Scantool - Shop	Scan Tool	Genisis	3860DH	2009
Self Propelled Floor Saw - Gas	Saw	Target	PAC IV 13H	2007
Cut off saw (tracking only)	Saw	Stihl	TS420-14	2010
Husqvarna Concrete Saw	Saw	Husqvarna	FS400	2011
Soff-Cut Saw	Saw	Soff Cut	390 saw	2011
International Svc Truck	Truck	Internatnl	4200 Svc	2005
Chevrolet Flat Bed 4500	Truck	Chevrolet	4500	2006
Chevrolet Flat Bed 4500	Truck	Chevrolet	4500	2007
Chevy W4500 Box Truck	Truck	Chevrolet	W4500	2007
New Holland 545D	Tractor	New Hollnd	545D	1998
Ford Tractor 7710	Tractor	Ford	7710	
John Deere 5210	Tractor	John Deere	5210	2001
Case IH DX 45 Tractor	Tractor	Case IH	DX 45	2001
John Deere 5310	Tractor	John Deere	5310	
John Deere 4710	Tractor	John Deere	4710	

LANDTEK EQUIPMENT LIST

Description	Equipment Type	Make	Model	Year
John Deere 5320	Tractor	John Deere	5320	
John Deere 6320	Tractor	John Deere	6320	2003
Case International 385	Tractor	Case Int'l	385	1989
John Deere 5210	Tractor	John Deere	5210	
Case DX45	Tractor	Case	DX45	2003
N.Holl.TC45DA wLoader YL367444	Tractor	New Hollnd	TC45DA	2005
New Holland TC45DA	Tractor	New Hollnd	TC45DA	2005
New Holland TC45DA	Tractor	NEW HOLLAN	TC45DA	2005
John Deere 7520	Tractor	John Deere	7520	2004
John Deere 4310	Tractor	John Deere	4310 4WD	2004
John Deere 210 LE	Tractor	John Deere	210LE	2005
New Holland TC45DA	Tractor	New Hollnd	TC45DA	2006
John Deere 4520	Tractor	John Deere	4520	2007
John Deere 6420	Tractor	John Deere	6420	2006
John Deere Tractor 6430	Tractor	John Deere	6430	2008
John Deere 110 TLB	Tractor	John Deere	110 TLB	2009
John Deere 4720	Tractor	John Deere	4720	2009
John Deere 3320 Tractor	Tractor	John Deere	3320	2011
John Deere 4720 Tractor	Tractor	John Deere	4720	2011
John Deere 6430 Tractor	Tractor	John Deere	6430	2010
John Deere 3320 Tractor	Tractor	John Deere	3320	2013
Dakota Turf Tender 440	Top Dresser	Dakota	440	2001
Toro Top Dresser on UV 05	Top Dresser	Toro	1800	2001
Toro Top Dresser on UV 07	Top Dresser	Toro	1800	2001
Toro Top Dresser 1800/UV-06	Top Dresser	Toro	44225	2002
Toro Top Dresser on UV 08	Top Dresser	Toro	1800	2002
Dakota Turf Tender 440	Top Dresser	Dakota	440	2003
Dakota Turf Tender 440	Top Dresser	Dakota	440	
Ty Crop MH 400	Top Dresser	TY CROP	MH 400	2004
Ty Crop MH 400	Top Dresser	TY CROP	MH 400	2005
Dakota Turf Tender 414	Top Dresser	DAKOTA	414	2006
Dakota Turf Tender 440	Top Dresser	Dakota	440	2006
Ty Crop MH 400	Top Dresser	Ty Crop	MH 400	
Dakota Turf Tender 440	Top Dresser	Dakota	440	2011
414 Top Dresser	Top Dresser	Dakota	414	2013
Frghtliner Utility Truck FL70	Truck	Freightlnr	FL70	1993
WESTERN STAR 480 FLAT TRUCK	Truck	WESTERN ST	480 FLAT	1993
International 4400 Dump Body	Truck	Internatnl	4400	2002
Freightliner FL70 Car Carrier	Truck	Freightlnr	FL70	2003
International Dump 4700	Truck	Internatnl	4700	1999
International Dump Truck	Truck	Internatnl	4900	1996
Chevy Silverado	Truck	Chevy	Slvr PU HD	2005
Freightliner	Truck	Freightlnr	FLD12064SD	2000
Ford E350 Diesel Van	Truck	FORD	E350 VAN	2006
Mack Utility Truck	Truck	MACK	CH6	1999
Ford F250 Pick Up	Truck	Ford	F250	2008
Ford E250 Van	Truck-Gas	FORD	E250 VAN	2008
Kenworth T-800 Truck	Truck	Kenworth	T-800	2009
GMC Van	Truck	GMC	VAN	2006
Chevy Utility Truck	Truck	Chevrolet	C3500	2004
Chevy 4500	Truck	Chevy	4500	2005
Chevy 4500	Truck	Chevy	4500	2005
Isuzu Truck	Truck	Isuzu	NU4-NRR	2008
Sterling Service Truck	Truck	Sterling	Utlt L7501	2002
Dodge Ram 2500 PU	Truck	Dodge	Ram 2500	2010
Description	Equipment Type	Make	Model	Year

LANDTEK EQUIPMENT LIST

Freightliner Flat Bed M2 Truck	Truck	Freightlnr	M2	2009
Ford F-650 Dump Truck	Truck	Ford	F-650 Dump	2009
Ford F250	Truck	Ford	F250 4x4	2010
Kenworth T80 Dump truck	Truck	Kenworth	T80	2007
Ford F250 Pick Up	Truck	Ford	F250 PU	2011
Chevy Silverado Pick Up	Truck	Chevy	Silverd PU	2011
Chevy Silverado Pick Up	Truck	Chevy	Silverd PU	2011
Chevy Silverado Pick Up	Truck	Chevy	Silverd PU	2011
Chevy Silverado Pick Up	Truck	Chevy	Silverd PU	2011
Chevy Silverado Pick Up	Truck	Chevrolet	Silverd PU	2011
Mitsubishi FE145 Truck	Truck	Mitsubishi	FE145	2007
International Dump Truck	Truck	Internatnl	4300 Dump	2006
Ford F450 Dump Truck	Truck	Ford	F450	2007
Chevy 4500	Truck	Chevrolet	4500	2008
International Water Truck	Truck	Internatnl	4200-WT	2008
Kenworth T800 Dump Truck	Truck	Kenworth	T-800 Dump	2007
Chevy C4500 Utility Vehicle	Truck	Chevrolet	C4500	2007
Kenworth T800	Truck	Kenworth	T800	2007
Ford F350 Utility	Truck	Ford	F350	2005
Freightliner M2-112	Truck	Feightlnr	M2-112	2008
Freightliner Dump	Truck	Freightlnr	M2	2012
Ford Utility	Truck	Ford	F550	2003
Kenworth T800 Dump	Truck	Kenworth	T800	2005
International 470	Truck	Internatnl	470	1995
International S65	Truck	Internatnl	S65	1988
GMC Sierra	Truck-Gas	GMC	Sierra	2004
GMC C4C Flat Truck	Truck	GMC	C4C	2005
GMC C7C Flat	Truck	GMC	C7C	2007
Ford F550	Truck	Ford	F550	2008
Ford F350 XL Utility	Truck	Ford	F350 XL	2006
Kenworth T-800	Truck	Kenworth	T800	2007
Kenworth T800 Dump	Truck	Kenworth	T800 Dump	2007
GMC Sierra Pick Up	Truck	GMC	Sierra	2013
International 4200 Flat	Truck	Ford	4200	2004
International 4200 Flat	Truck	Ford	4200	2004
International 4200 Flat	Truck	Ford	4200 Flat	2004
Evaco Trlr 1996	Trailer	Evaco	Trlr	1996
Evaco Trlr 1998	Trailer	Evaco	Trailer	1998
Evaco Trlr 1999	Trailer	Evaco	Trailer	1999
Evaco Trlr 2000	Trailer	Evaco	Trailer	2000
Superline Trailer	Trailer	Superline	DO10T202EL	2004
Superline Trailer	Trailer	Superline	DO20T202AL	2004
SUPERLINE TRAILER	Trailer	SUPERLINE	D0207202AL	2005
Danze Enclosed Trailer	Trailer	Danze	816TA35	2004
Superline Trailer	Trailer	Superline	D020T202AL	2006
Arsenal Deckover Trailer	Trailer	Arsenal	Dck96x20x4	2006
Superline Trailer	Trailer	Superline	D027T293T	2009
CAM Split Tilt Trailer	Trailer	CAM	7CAM20STT	2011
Homesteader Trailer	Trailer	Homesteadr	Hercules	2011
Homesteader Trailer	Trailer	Homestsder	Hercules	2011
Homesteader Trailer	Trailer	Homesteadr	Hercules	2011
Homesteader Trailer	Trailer	Homesteadr	Hercules	2011
Homesteader Trailer	Trailer	Homesteadr	Hercules	2011
Superline Trailer	Trailer	Superline	D020T202AL	2011
CAM Trailer	Trailer	CAM	7 t CAM16C	2011

LANDTEK EQUIPMENT LIST

Description	Equipment Type	Make	Model	Year
Homesteader Trailer	Trailer	Homesteadr	820HT	2012
Felling Trailer	Trailer	Felling		2003
Heavy Hauling Trailer	Trailer	HE/HA	Trailer	1998
Superline Trailer	Trailer	Superline	D020T222AL	2012
Superline Trailer	Trailer	Superline	D020T222AL	2012
CAM 7 Ton Utility Trailer	Trailer	CAM	7CAM20STT	2014
Field Top Maker	Top Maker	Koro	FTM2000	2000
Trash Pump for tracking only	Trash Pump		3" GAS/DSL	2006
Trash Pump for tracking only	Trash Pump	Honda	WT-30XK3A2	2009
AFT 100 Trencher	Trencher	AFT	T100	2000
AFT T65 Trencher	Trencher	AFT	T65	1990
AFT Wizz Wheel Trencher	Trencher	AFT	Wizz Wheel	1999
KORO TD150 Top Drain	Trencher	KORO	TD150	2005
AFT 100 Trencher	Trencher	AFT	100	2001
Worksite Trncher	Trencher	Worksite	TR36B	2010
Trencher	Trencher	Bradco	612	2003
Lay-Mor Turf Sweeper 6'	Turf Sweeper	Laymor	6HB Green	1995
Small Turf Sweeper	Turf Sweeper	Laymor	3-B-DSS	1995
Laymor Sweeper 8'	Turf Sweeper	Laymor	8HC	2004
Lawn Vacuum -for tracking only	Turf Sweeper	Billy Goat	KD512SP	2006
Laymor Sweeper 6'	Turf Sweeper	Laymor	8HC	2006
Laymor Sweeper 8'	Turf Sweeper	Laymor	8HC	2008
VertiTop Redemix Vacuum Attach	Turf Sweeper	VertiTop	Redmx 1500	2010
VertiTop Redemix Vacuum Attach	Turf Sweeper	VertiTop	Redmx 1500	2011
TerraQuip Turf Sweeper TSS 48	Turf Sweeper	Terra Quip	TSS48	2011
TerraQuip Turf Sweeper TSS48	Turf Sweeper	TerraQuip	TSS48	2011
Laymor Sweeper	Turf Sweeper	Laymore	SM300	2013
Hahn Multi-Pro Spray Rig	Utility Vehicle	Hahn	440HF	
Toro Workman 3200	Utility Vehicle	Toro	3200/07202	2001
Toro Workman 3200	Utility Vehicle	Toro Wrkmn	3200	2001
Toro Workman 3200	Utility Vehicle	Toro Wrkmn	3200	2002
John Deere 2020	Utility Vehicle	John Deere	2020 Prgtr	
Kubota RTV 900W-A	Utility Vehicle	Kubota	RTV900W-A	2005
John Deere 4X2 Turf Gator	Utility Vehicle	John Deere	4X2 Trf Gt	
Toro 3200 Workman Sprayer	Utility Vehicle	Toro	3200	2000
Kubota RTV900	Utility Vehicle	Kubota	RTV900W6-H	2008
John Deere 2030	Utility Vehicle	John Deere	Prg 2030 D	2006
John Deere 2030	Utility Vehicle	John Deere	2030	
Kubota Utility Vehicle	Utility Vehicle	Kubota	RTV900W9-H	2010
Kubota Utility Vehicle	Utility Vehicle	Kubota	RTV900W9-H	2010
E-Z-Go Utility Vehicle	Utility Vehicle	EZ Go	ST 4X4	
Kubota Utility Vehicle	Utility Vehicle	Kubota	RTV900W9-H	2010
Kubota Utility Vehicle	Utility Vehicle	Kubota	RTV900XTWL	2011
Toro Workman 3300	Utility Vehicle	Toro	3300/07362	2006
Toro Workman 3300	Utility Vehicle	Toro	3300/07362	2005
Miller Bobcat 225 Welder	Welder	Miller	Bobcat 225	2006
Welder - tracking only	Welder	Miller	Legend	
CAT 936 Payloader	Wheel Loader	Caterpillr	936	1987
CAT 950G	Wheel Loader	Catepillar	950G	1998
Komatsu WA420	Wheel Loader	Komatsu	WA420-3L	1999
John Deere 724 J	Wheel Loader	John Deere	724J	2003
Daewoo Mega 400	Wheel Loader	Daewoo	Meg400 III	1999
Komatsu WA430-6 Wheel Loader	Wheel Loader	Komatsu	WA 420-6	2008
Komatsu WA200-6 Wheel Loader	Wheel Loader	Komatsu	WA200-6	2011
John Deere Wheel Loader	Wheel Loader	John Deere	624J	2007

** In addition, LandTek owns multiple job containers, fuel tanks, generators and small tools

The Land[redacted]oup, Inc.
Open Job List as of June 2014

Job Name	Designed by The LandTek Group	Start Date	Total Contract	% Complete	% Open	Open Contract Value	Estimated End Date	Job	Architect	Contact Name	Address	Number
Averill Blvd. Park Elmont, NY		Sep-14	$623,900.00	0%	100%	$623,900.00	Jan-2015	Soccer Field Rehabilitation	Town of Hempstead	Clem Grieco	200 N. Franklin Street Hempstead, NY 11550	(516) 292-9000
Bayshore UFSD - Bayshore Armory		Sep-14	$310,275.00	0%	100%	$558,272.00	TBD	Armory to Pre-K Conversion	BBS Architects	TBD	75 West Perkal St, Bayshore NY	
Brooke Point Stafford, VA		Jun-14	$303,750.00	4%	96%	$291,600.00	Aug-2014	Site Work	Leading Design		13384 Berlin Turnpike Lovettsville, VA 2012	(607) 351-8254
Cadigan Town Park Brookfield, CT		Apr-14	$2,249,800.00	73%	27%	$607,446.00	Aug-2014	Park Revitalization - Phase I	Doyle Coffin Architects	Rick Zini	158 Danbury Road Ridgefield, CT 06877	(203) 431-5001
Carle Place MS/HS Carle Place, NY		May-14	$2,118,900.00	26%	74%	$1,567,986.00	Sep-2014	Athletic Field Renovation at Carle Place MS/HS	H2M Group	Jason Smith	538 Broadhollow Road Melville, NY 11746	(631) 756-8000
Carmel CSD Carmel, NY		Jun-14	$2,049,450.00	19%	81%	$1,660,054.50	Sep-2014	General Construction at Various School Within District	Sammel Architecture PLLC	Charlene Gabriel	332 Route 100 Somers, NY 10589	(914) 276-0777
Centenary College Hackettstown, NJ 07840		Sep-14	$988,180.00	95%	5%	$49,409.00	Aug-2014	Field Improvements	Suburban Consulting Eng	Johnathan Tardiff	100 Valley Road Suite 202 Mount Arlington, NJ 07856	(973) 398-1776
Central CT State University, New Britain, CT		Jul-14	$639,000.00	98%	2%	$12,780.00	Aug-2014	Turf Replacement	N/A			
Central Islip Maintenance Facility		Apr-14	$1,495,200.00	46%	54%	$807,408.00	Dec-2014	Sitework	Joseph T Matthews Architect	Joe Matthews	3460-6 Veteran Memorial Highway, Bohemia NY 11716	(631) 348-4500
Central Park Parsippany, NJ 07054		Oct-13	$2,487,055.00	91%	9%	$223,834.95	Aug-2014	Site Work	T&M Associates		11 findal rd middletown, nj 07748	(732) 371-3400
Chaminade High School Mineola, NY	X	Mar-14	$1,060,403.00	98%	2%	$21,208.06	Aug-2014	Synthetic Turf Faerber& Ott Fields and Indoor Training Facility; Fencing @ Parking Lots & Bleacher Area	Chaminade High School	Joe Horan	340 Jackson Avenue Mineola, NY 11501	(516) 742-5555
Clarendon Elementary Secaucus, NJ		Jul-14	$568,003.00	8%	92%	$522,562.76	Sep-2014	Field Improvements	Remington, Vernick & Arange		300 Penhorn Ave Secaucus, NJ 07094	(201) 624-2137
Fordham University Coffey Field Bronx, NY		May-14	$1,882,100.00	52%	48%	$903,408.00	Aug-2014	Coffey Field - New Synthetic Turf Field	Jack L. Gordon Architects, PC	Sophie Ladjimi	345 7th Avenue New York, NY 10001	(212) 279-0550
Hickox Field Long Island University CW Post Campus Brookville, NY		Sep-13	$1,800,683.00	76%	24%	$432,163.92	Aug-2014	Hickox Field Renovations	CHA Sports Company	Dan Deats	111 Winners Circle Albany, NY 12205	(518) 453-4500
Hilltop Park Verona, NJ 07044		Apr-14	$5,528,618.75	13%	87%	$4,609,898.31	Apr-2015	Construction of Hilltop Park, Phase II	Kinsey Asaociates		4 Walter Foran Blvd. Suite 210 Flemington, NJ 08822	(908) 237-0770
Ironbound Newark, NJ		Jul-14	$959,935.86	86%	14%	$134,391.02	Sep-2014	Field Improvements	Suburban Consulting Eng		100 Valley Road Suite 202 Mount Arlington, NJ 07856	(973) 398-1776
Kean University Union, NJ 07083		May-14	$1,443,000.00	83%	17%	$245,310.00	Sep-2014	Stadium Resurfacing	Naglia Engineering Associates		34 Park Ave PO Box 426 Lyndhurst, NJ 07071	(201) 939-8805
Levittown Ballfields Levittown, NY		Mar-14	$623,900.00	71%	29%	$180,931.00	Aug-2014	Installation of Synthetic Turf Infields at Six Parks in Levittown	Town of Hempstead	Clem Grieco	200 N. Franklin Street Hempstead, NY 11550	(516) 292-9000
Metz Middle School Manassas, VA		Aug-14	$940,015.00	0%	100%	$940,015.00	Oct-14	Field Improvements	Mosley Architects		3200 Norfolk Street Richmond, VA 23230	(804) 794-7555
Millersville University Millersville, PA 17551		May-14	$1,851,803.40	79%	21%	$388,878.71	Sep-14	Field Improvements	Pennoni Associates, Inc.		1215 Manor Drive Suite 100 Mechanicsburg, PA 17055	
Montgomery High School Skillman, NJ 08558		Jun-14	$866,785.00	76%	24%	$160,028.40	Aug-14	Field Improvements	Edwards Engineering Group		PO Box 8437 Somerville, NJ 08876	
Mount Vernon High School Alexandria, VA		Apr-14	$1,298,000.00	89%	11%	$142,780.00	Aug-14	Synthetic Turf Installation	Leading Design		13384 Berlin Turnpike Lovettsville, VA 2012	(607) 351-8254
North Hempstead; Town of - Crescent Drive		Apr-14	$270,405.00	50%	50%	$135,202.50	Aug-14	Drainage Improvements	Cashin Associates, PC	Jill Guiney	285 Denton Avenue, New Hyde Park, NY 11040	(516) 739-6713

The LandTek Group, Inc.
Open Job List as of June 2014

Job Name	Designed by The LandTek Group	Start Date	Total Contract	% Complete	% Open	Open Contract Value	Estimated End Date	Job	Architect	Contact Name	Address	Number
North Middle School Lynbrook, NY		Jun-14	$225,500.00	0%	100%	$225,500.00	Feb-15	Athletic Field Reconstruction	John A. Grillo Architect PC	Bob Cascone	1213 Main Street Port Jefferson, NY 11777	(631) 476-2161
Palisades Park Sportsplex Palisades Park, NJ		Aug-14	$424,480.00	78%	22%	$93,385.60	Aug-14	Field Improvements	Neglia Engineering Associates		34 Park Ave PO Box 426 Lyndhurst, NJ 07071	(201) 939-8805
Ritz Carlton Residences North Hills, NY		Jul-14	$2,000,000.00	3%	97%	$1,940,000.00	Oct-14	Concrete Foundation	Lessard Architects		8521 Leesburg Pike, Vienna, VA 22182	(571) 830-1600
Rowland Park Cranbury, NJ		TBD	$660,600.00	0%	100%	$660,600.00	TBD	Field Improvements	CHA		6 Campus Drive Parsippany, NJ 07054	
South Brunswick High School Monmouth Junction, NJ		Jun-14	$3,660,405.00	72%	28%	$1,024,913.40	Aug-14	Synthetic Turf Fields & Track Replacement	Spiezle Architectural Group, Inc.		120 Sanhican Drive Trenton, NJ 08618	
South Middle School Lynbrook, NY		Jun-14	$1,179,750.00	18%	82%	$967,395.00	Sep-14	Running Track Reconstruction	John A. Grillo Architect PC	Bob Cascone	1213 Main Street Port Jefferson, NY 11777	(631) 476-2161
South Side High School Rockville Centre, NY		Jun-14	$1,564,500.00	50%	50%	$782,250.00	Sep-14	Track & Field Reconstruction	BBS Architects	Gary Robertson	244 E. Main Street Patchogue, NY 11772	(631) 475-0349
Stafford HS Fredericksburg, VA		Jun-14	$312,800.00	32%	68%	$212,568.00	Aug-14	Site Work	Leading Design		13384 Berlin Turnpike Lovettsville, VA 2012	(607) 351-8254
University of Richmond Richmond, VA		Sep-13	$821,867.10	58%	42%	$345,184.18	Sep-14	Site Work	Draper Aden Associates		703 Thimble Shoals Blvd. Newport, VA 23606	(757) 599-9800
Upper Dublin Fort Washington, PA		Jun-14	$1,720,000.00	37%	63%	$1,083,600.00	Sep-14	Cardinal Stadium	D'Huy Engineering, Inc		1 East Broad Street Bethlehem, PA	
Valhalla Jr/Sr High School Valhalla, NY		Jun-14	$870,800.00	52%	48%	$417,888.00	Sep-14	Turf Replacement & Press Box	KG&D Architects	Walter Hauser	285 Main Street Mount Kisco, NY 10549	(914) 666-5900
Ward Melville High School East Setauket, NY		Jun-14	$1,431,350.00	38%	62%	$887,437.00	Sep-14	Athletic Field Reconstruction	John A. Grillo Architect PC	John M. Grillo	1213 Main Street Port Jefferson, NY 11777	(631) 476-2161
West Essex Regional HS North Caldwell, NJ		TBD	$1,174,750.00	0%	100%	$1,174,750.00	TBD	Athletic Field & Running Track Replacement	DiCara Rubino Architects		1 East Broad Street Bethlehem, PA	(973) 256-0202
West Potomac High School Alexandria, VA		Apr-14	$1,491,500.00	22%	78%	$1,163,370.00	Aug-14	Synthetic Turf Fields Installation	Gale Associates		122 Kenilworth Drive Suite 206 Towson, MD 21204	(443) 279-4560
William Scotsman		Dec-13	$923,000.00	50%	50%	$461,500.00	Aug-14	New Office Building	SRF Architects	Darren Bulso	2780 Route 100, Macungie, PA 18062	(973) 849-2002
Yonkers - Riverside Park & Palisades Prep		Mar-14	$169,700.00	15%	85%	$161,245.00	Dec-14	Concrete & Masonry Repairs	Sammel Architecture	Dave Hunsberger	332 Route 100, Somers NY 10589	(914) 276-0777

PREVAILING WAGE LOG

Agency Involved	Nature of Alleged Violation	Name, Address & EIN of Entity	Date of Notice	Status or Outcome	Case Numbers	Date Closed
New Jersey Dept of Labor	Alleged Prevailing Wage Violations.	The LandTek Group, Inc.; 235 County Line Road, Amityville, NY 11701; EIN #11-2945683	7/22/2008	Settled 06/08/09 with LandTek paying only 20% of the original assessment. Back wages of $375.33 were paid to cover the Foreman rate which was inadvertantly paid at Journeyman rate.	Ewing HS Athletic Field Improvements / PC-367-0309-ROM	6/8/2009
Delaware Dept of Labor	Verify compliance with Delaware's Prevailing Wage Law and Regulations	The LandTek Group, Inc.; 235 County Line Road, Amityville, NY 11701; EIN #11-2945683	8/13/2009	Case closed with no violations.	Dept of Labor v. LandTek Group Inc / 2010-08-11-0003	8/31/2009
New York City Comptroller's Office	Alleged Prevailing Wage Violations	The LandTek Group, Inc.; 235 County Line Road, Amityville, NY 11701; EIN #11-2945683	10/19/2010	Audit has been closed with no findings of any violations.	Labor Law File #20100708	11/1/2011
NYC Dept of Parks & Rec- Labor Law Investigation Unit (LLIU)	Alleged Labor Law Violations	The LandTek Group, Inc.; 235 County Line Road, Amityville, NY 11701; EIN #11-2945683	2/15/2012 or 5/24/12	Audit has been closed with no willful violation, no fines, no penalties.	Contract #Q162-210M	4/30/2014
New Jersey Dept of Labor	Audit of Payroll Records for compliance with Prevailing Wage Law	The LandTek Group, Inc.; 235 County Line Road, Amityville, NY 11701; EIN #11-2945683	4/9/2012	Claim Closed Anew Fence, The subcontractor was not responsive to the prevailing wage inquiry and LandTek settled with the NJDOL for $5033.00. the original amount of the claim was $16755.00	PC-243-0412-CIR	8/1/2013
New York Dept of Labor	Alleged Prevailing Wage Violations	The LandTek Group, Inc.; 235 County Line Road, Amityville, NY 11701; EIN #11-2945683	4/3/2012	LandTek sub-subcontractor, James Rough Bleachers, was found to have a willful labor violation and was charged in absentia for the underpayment of his labor along with penalties and interest. LandTek satisfied James Rough liabilities pursuant to 12 NYCRR Section 221.1. This case was closed on 6/19/14	Case #2009010926	6/19/2014

235 County Line Road
Amityville, NY 11701
EIN #11-2945683

THE LANDTEK GROUP, INC. AND AFFILIATE

CONSOLIDATED FINANCIAL STATEMENTS

DECEMBER 31, 2013

THE LANDTEK GROUP, INC. AND AFFILIATE

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GRASSI & CO.
Accountants and Success Consultants®

Accounting, Auditing, Tax, Litigation Support,
Valuation, Management & Technology Consulting

INDEPENDENT AUDITORS' REPORT

To The Stockholders
The LandTek Group, Inc. and Affiliate
Amityville, New York

We have audited the accompanying consolidated financial statements of The LandTek Group, Inc. and Affiliate which comprise the consolidated balance sheet at December 31, 2013, and the related consolidated statements of income, stockholders' equity, and cash flows for the year then ended, and the related notes to the consolidated financial statements.

Management's Responsibility

Management is responsible for the preparation and fair presentation of these consolidated financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on these consolidated financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

An Independent Firm Associated with Moore Stephens International Limited

50 Jericho Quadrangle, Suite 200
Jericho, New York 11753
(516) 256-3500 ▪ Fax (516) 256-3510

Additional Office: Manhattan, NY
(212) 661-6166
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Opinion

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of The LandTek Group, Inc. and Affiliate at December 31, 2013, and the results of its operations and its cash flows for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Grassi & Co, CPAs, P.C.

GRASSI & CO., CPAs, P.C.

Jericho, New York
March 31, 2014

THE LANDTEK GROUP, INC. AND AFFILIATE
CONSOLIDATED BALANCE SHEET
DECEMBER 31, 2013

ASSETS

CURRENT ASSETS:	
Cash	$ [redacted]
Contract receivables, net	[redacted]
Costs and estimated earnings in excess of billings on uncompleted contracts	[redacted]
Advances to stockholders	[redacted]
Advances to affiliate	[redacted]
Prepaid and refundable income taxes	[redacted]
Prepaid expenses and other current assets	[redacted]
Total Current Assets	[redacted]
PROPERTY AND EQUIPMENT, NET (Including $727,508 related to the variable interest entity)	[redacted]
OTHER ASSETS:	
Security deposits	[redacted]
Advances to stockholders	[redacted]
Advances to affiliate	[redacted]
	[redacted]
	$ [redacted]

The accompanying notes are an integral part of these consolidated financial statements.

THE LANDTEK GROUP, INC. AND AFFILIATE
CONSOLIDATED BALANCE SHEET
DECEMBER 31, 2013

LIABILITIES AND STOCKHOLDERS' EQUITY

CURRENT LIABILITIES:	
Current maturities of long-term debt	$ [redacted]
Accounts payable	[redacted]
Billings in excess of costs and estimated earnings on uncompleted contracts	[redacted]
Accrued expenses and other current liabilities	[redacted]
Total Current Liabilities	[redacted]
LONG-TERM LIABILITIES:	
Long-term debt, less current maturities	[redacted]
Advances from stockholders	[redacted]
	[redacted]
COMMITMENTS AND CONTINGENCIES	
STOCKHOLDERS' EQUITY:	
The LandTek Group, Inc. Stockholders' Equity:	
Common stock, no par value; 200 shares authorized, issued and outstanding	[redacted]
Additional paid-in capital	[redacted]
Retained earnings	[redacted]
Total The LandTek Group, Inc. Stockholders' Equity	[redacted]
Noncontrolling interest in affiliate	[redacted]
Total Stockholders' Equity	[redacted]
	$ [redacted]

The accompanying notes are an integral part of these consolidated financial statements.

THE LANDTEK GROUP, INC. AND AFFILIATE
CONSOLIDATED STATEMENT OF INCOME
FOR THE YEAR ENDED DECEMBER 31, 2013

REVENUES	$ [redacted]
COST OF REVENUES	[redacted]
GROSS PROFIT	[redacted]
GENERAL AND ADMINISTRATIVE EXPENSES	[redacted]
INCOME FROM OPERATIONS	[redacted]
OTHER INCOME (EXPENSE):	
Interest income	[redacted]
Interest expense	[redacted]
Gain on disposition of property and equipment	[redacted]
Miscellaneous income	[redacted]
Total Other Expense	[redacted]
INCOME BEFORE PROVISION FOR INCOME TAXES	[redacted]
PROVISION FOR INCOME TAXES	[redacted]
NET INCOME	[redacted]
LESS: NET INCOME ATTRIBUTABLE TO THE NONCONTROLLING INTEREST	[redacted]
NET INCOME ATTRIBUTABLE TO THE LANDTEK GROUP, INC.	$ [redacted]

The accompanying notes are an integral part of these consolidated financial statements.

THE LANDTEK GROUP, INC. AND AFFILIATE
CONSOLIDATED STATEMENT OF STOCKHOLDERS' EQUITY
FOR THE YEAR ENDED DECEMBER 31, 2013

	Common Stock		Additional	Retained	Noncontrolling	Total
	Shares	Amount	Paid-In Capital	Earnings	Interest in Affiliate	Stockholders' Equity
BALANCE, JANUARY 1, 2013	[redacted]	$ [redacted]	$ [redacted]	$ [redacted]	$ [redacted]	$ [redacted]
NET INCOME	-	-	-	[redacted]	[redacted]	[redacted]
DISTRIBUTIONS TO STOCKHOLDERS	-	-	-	[redacted]	-	[redacted]
BALANCE, DECEMBER 31, 2013	[redacted]	$ [redacted]	$ [redacted]	$ [redacted]	$ [redacted]	$ [redacted]

The accompanying notes are an integral part of these consolidated financial statements.

THE LANDTEK GROUP, INC. AND AFFILIATE
CONSOLIDATED STATEMENT OF CASH FLOWS
FOR THE YEAR ENDED DECEMBER 31, 2013

CASH FLOWS FROM OPERATING ACTIVITIES:	
Cash received from construction contracts	$ [redacted]
Interest received	[redacted]
Security deposits refunded	[redacted]
Miscellaneous income received	[redacted]
Cash Provided By Operating Activities	[redacted]
Cash paid for contract costs and rental costs	[redacted]
Cash paid for general and administrative costs	[redacted]
Interest paid	[redacted]
Income taxes paid	[redacted]
Cash Disbursed For Operating Activities	[redacted]
NET CASH PROVIDED BY OPERATING ACTIVITIES	[redacted]
CASH FLOWS FROM INVESTING ACTIVITIES:	
Proceeds from sale of property and equipment	[redacted]
Purchase of property and equipment	[redacted]
Advances to affiliate	[redacted]
Advances to stockholders	[redacted]
Cash Disbursed For Investing Activities	[redacted]
NET CASH USED IN INVESTING ACTIVITIES	[redacted]
CASH FLOWS FROM FINANCING ACTIVITIES:	
Principal payments of long-term borrowings	[redacted]
Distributions to stockholders	[redacted]
NET CASH USED IN FINANCING ACTIVITIES	[redacted]
NET INCREASE IN CASH	[redacted]
CASH, BEGINNING OF YEAR	[redacted]
CASH, END OF YEAR	$ [redacted]

The accompanying notes are an integral part of these consolidated financial statements.

THE LANDTEK GROUP, INC. AND AFFILIATE
CONSOLIDATED STATEMENT OF CASH FLOWS
FOR THE YEAR ENDED DECEMBER 31, 2013

RECONCILIATION OF NET INCOME TO NET CASH PROVIDED BY OPERATING ACTIVITIES:	
NET INCOME	$ [redacted]
ADJUSTMENTS TO RECONCILE NET INCOME TO NET CASH PROVIDED BY OPERATING ACTIVITIES:	
Bad debt expense	[redacted]
Depreciation and amortization	[redacted]
Gain on disposition of property and equipment	[redacted]
Changes in Assets (Increase) Decrease:	
Contract receivables	[redacted]
Costs and estimated earnings in excess of billings on uncompleted contracts	[redacted]
Prepaid and refundable income taxes	[redacted]
Prepaid expenses and other current assets	[redacted]
Security deposits	[redacted]
Changes in Liabilities Increase (Decrease):	
Accounts payable	[redacted]
Billings in excess of costs and estimated earnings on uncompleted contracts	[redacted]
Accrued expenses and other current liabilities	[redacted]
Total Adjustments	[redacted]
NET CASH PROVIDED BY OPERATING ACTIVITIES	$ [redacted]
SCHEDULE OF NONCASH INVESTING AND FINANCING ACTIVITIES:	
Property and equipment acquired through long-term financing	$ [redacted]

The accompanying notes are an integral part of these consolidated financial statements.

THE LANDTEK GROUP, INC. AND AFFILIATE
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS
DECEMBER 31, 2013

Note 1 - Nature of Operations and Principles of Consolidation

Principles of Consolidation

The consolidated financial statements include the accounts of The LandTek Group, Inc. ("LandTek") and R & S Realty Corp. ("R & S") the affiliate, referred to collectively as the "Company." The companies are affiliated through common ownership and management. All intercompany balances and transactions have been eliminated in the consolidated financial statements.

The Company follows the accounting and reporting standards for the noncontrolling interest in a consolidated affiliate in accordance with Financial Accounting Standards Board ("FASB") Accounting Standards Codification ("ASC") Subtopic 810-10, ("FASB ASC 810-10"). The determination of whether a reporting entity is required to consolidate another entity is based on, among other things, the other entity's purpose and design and the reporting entity's ability to direct the activities of the other entity that most significantly impact the other entity's economic performance (see Note 11).

Business Activity

LandTek is a contractor specializing in the design and installation of athletic fields throughout the eastern United States. Construction work is generally performed under fixed-price and unit-price contracts. The length of the company's contracts varies but typically ranges from six months to two years.

R & S owns a building which it rents to LandTek under a month-to-month tenancy.

Note 2 - Summary of Significant Accounting Policies

Revenue and Cost Recognition

Revenues from long-term contracts are recognized under the percentage of completion method at the time the job is considered to be in process, pursuant to FASB ASC Subtopic 605-35-25. A job is considered to be in process once the Company starts performing work at the physical job site. Prior to the job being in progress, costs are capitalized and revenue from billing is deferred. Under this method, progress towards completion is recognized according to the percentage of incurred costs to estimated total costs. This method is used because management considers the "cost to cost" method the most appropriate in the circumstances. Revenue from maintenance contracts is recognized under the accrual basis of accounting. Under this method, the Company recognizes revenue from products and services when (1) persuasive evidence of an arrangement exists; (2) delivery has occurred or services have been rendered; (3) the selling price is fixed and determinable; and (4) collectibility is reasonably assured. Determination of criteria (3) and (4) is based on management's judgment regarding the fixed nature of the selling prices of the products delivered and the services rendered and the collectibility of those amounts.

Note 2 - Summary of Significant Accounting Policies (cont'd.)

Revenue and Cost Recognition (cont'd.)

Contract costs include all direct material and labor costs and all other direct and indirect costs related to contract performance. General and administrative costs are charged to expense as incurred. Provisions for estimated losses on uncompleted contracts are made in the period in which such losses are determined. Changes in job performance, job conditions and estimated profitability, including those arising from settlements, may result in revisions to costs and income and are recognized in the period in which the revisions are determined. As there is an inherent uncertainty in estimating the costs to complete on contracts in process, it is at least reasonably possible that the estimates used will change in the near term. Profit incentives are included in revenues when their realization is reasonably assured. An amount equal to contract costs attributable to claims is included in revenues when realization is probable and the amount can be reliably estimated.

The Asset, "Costs and estimated earnings in excess of billings on uncompleted contracts," represents revenues recognized in excess of amounts billed. The Liability, "Billings in excess of costs and estimated earnings on uncompleted contracts," represents billings in excess of revenues recognized.

In accordance with normal construction industry practice, LandTek includes in current assets and current liabilities amounts relating to construction contracts realizable and payable over a period in excess of one year.

Revenues from R & S are recognized under the accrual basis of accounting.

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Fair Value of Financial Instruments

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. To increase the comparability of fair value measurements, a three-tier fair value hierarchy, which prioritizes the inputs used in the valuation methodologies; is as follows:

Level 1 - Valuations based on quoted prices for identical assets and liabilities in active markets.

Note 2 - Summary of Significant Accounting Policies (cont'd.)

Fair Value of Financial Instruments (cont'd.)

Level 2 - Valuations based on observable inputs other than quoted prices included in Level 1, such as quoted prices for similar assets or liabilities in active markets, quoted prices for identical or similar assets and liabilities in markets that are not active, or other inputs that are observable or can be corroborated by observable market data.

Level 3 - Valuations based on unobservable inputs reflecting the Company's own assumptions, consistent with reasonably available assumptions made by other market participants. These valuations require significant judgment.

At December 31, 2013, the fair value of the Company's financial instruments including cash, contract receivables, advances to affiliates and accounts payable, approximated book value due to the short maturity of these instruments.

At December 31, 2013, the Company does not have assets or liabilities required to be measured at fair value in accordance with FASB ASC Topic 820, *Fair Value Measurements*.

Contract Receivables

LandTek carries its contract receivables at cost less an allowance for doubtful accounts. LandTek estimates the allowance for doubtful accounts based upon a review of outstanding receivables and historical collection information by customer. Normally, contract receivables are due within 30 days after the date of the requisition. Contract retentions are generally due within 30 days after completion of the project and acceptance of the owner. Where the contract provides for guarantee retainage provisions, such retainage is generally due within one year of completion and acceptance of the project. Receivables more than 90 days old are considered past due. Contract receivables are written off when they are determined to be uncollectible. LandTek does not accrue interest on past due receivables.

Property and Equipment

Property and equipment is stated at cost. The costs of additions and betterments are capitalized and expenditures for repairs and maintenance are expensed in the period incurred. When items of property and equipment are sold or retired, the related costs and accumulated depreciation are removed from the accounts and any gain or loss is included in income.

Depreciation of property and equipment is provided utilizing straight-line and accelerated methods over the estimated useful lives of the respective assets as follows:

Building and building improvements	39 years
Transportation equipment	5 years
Machinery and equipment	3 to 5 years
Furniture and fixtures	5 to 7 years

Leasehold improvements are amortized over the shorter of the remaining term of the lease or the useful life of the improvement utilizing the straight-line method.

Note 2 - Summary of Significant Accounting Policies (cont'd.)

Income Taxes

Generally, income taxes have not been provided because the stockholders have elected to have the companies treated as S corporations for income tax purposes as provided in Section 1362(a) of the Internal Revenue Code. As such, the corporations' income or loss and credits are passed through to the stockholders and reported on their individual income tax returns. The accompanying provision for income taxes represents only state and local taxes.

Construction contracts are reported for tax purposes using the percentage of completion method.

Pension Plans

LandTek has a qualified 401(k) deferred compensation plan, which provides that eligible employees may defer payment of taxes on a portion of their salary by making contributions to the plan through payroll deductions. Starting October 1, 2008, the Company makes a matching contribution in an amount up to 50% of the employees' first 3% of compensation.

Union employees are covered by collectively bargained employee benefit plans under which LandTek makes contributions to a union administered 401(k) plan on a monthly basis.

New Accounting Pronouncements

In March 2014, the FASB issued Accounting Standards Update ("ASU") No. 2014-07, *Applying Variable Interest Entities (VIE) Guidance to Common Control Leasing Arrangements.* This ASU allows nonpublic companies to elect an accounting policy alternative not to apply VIE guidance to a lessor entity if the company has a lease arrangement with the lessor entity and:

- the two entities are under common control,
- substantially all the activities between the company and the lessor entity are related to leasing activities between the two entities, and,
- the principal amount of any obligation of the lessor entity that is guaranteed or collateralized by the company does not exceed the value of the asset leased.

Thus, under the accounting policy election allowed by this ASU, certain real estate entities formerly required to be consolidated under VIE guidance because a company was deemed the primary beneficiary may not have to be consolidated if the requirements are met. The ASU will require certain disclosures regarding the amount and key terms of liabilities of the lessor entity, as well as qualitative description of the relationship and the circumstances under which the company might have to provide financial support to the lessor entity.

The amendments in ASU 2014-07 are effective for fiscal years beginning after December 15, 2014, and for interim periods in fiscal years beginning after December 15, 2015, and should be applied retrospectively to all periods presented. Early adoption is permitted, including application to any period for which the entity's annual or interim financial statements have not yet been made available for issuance.

The Company has not yet determined if it will elect the accounting policy alternative in this ASU, and if so, if it will have a material effect on the consolidated financial statements.

Note 3 - Concentration of Credit Risk

The Company maintains cash balances in two financial institutions which are insured by the Federal Deposit Insurance Corporation ("FDIC") for up to $250,000 per institution. From time to time, the Company's balances may exceed these limits.

Note 4 - Contract Receivables

Contract receivables, net are summarized as follows:

BILLED:	
Completed contracts	$ [redacted]
Contracts in process	[redacted]
Retainage	[redacted]
	[redacted]
Less: Allowance for doubtful accounts	[redacted]
	$ [redacted]

The Company does not anticipate collection of approximately $523,000 of the retainage within one year.

Note 5 - Costs and Estimated Earnings on Uncompleted Contracts

Contract costs incurred	$ [redacted]
Estimated earnings	[redacted]
	[redacted]
Less: Billings to date	[redacted]
	$ [redacted]

Included in the accompanying consolidated balance sheet under the following captions:

Costs and estimated earnings in excess of billings on uncompleted contracts	$ [redacted]
Billings in excess of costs and estimated earnings on uncompleted contracts	[redacted]
	$ [redacted]

Note 6 - Property and Equipment

Property and equipment, net is summarized as follows:

Land	$ [redacted]
Building and building improvements	[redacted]
Transportation equipment	[redacted]
Machinery and equipment	[redacted]
Furniture and fixtures	[redacted]
Leasehold improvements	[redacted]
Less: Accumulated depreciation and amortization	[redacted]
	$ [redacted]

Depreciation and amortization expense related to property and equipment amounted to [redacted] for the year ended December 31, 2013.

Note 7 - Related Party Transactions

At December 31, 2013, LandTek advanced [redacted] to its stockholders. The advances are unsecured, noninterest-bearing and [redacted] is not anticipated to be repaid within one year.

At December 31, 2013, R & S has been advanced [redacted] from its stockholders. The advances are unsecured, noninterest-bearing and are not anticipated to be repaid within one year.

At December 31, 2013, the Company advanced [redacted] to an entity related by common control and management. The advance is unsecured, noninterest-bearing and repayment is not anticipated within one year.

At December 31, 2013, the Company advanced [redacted] to an entity related by common control and management. The advance is unsecured, noninterest-bearing and repayment is expected within one year

Note 8 - Accounts Payable

Accounts payable includes retainages payable to subcontractors aggregating [redacted] at December 31, 2013.

Note 9 - Line of Credit

Pursuant to an arrangement with its bank, LandTek may borrow up to $10,000,000 under a renewable line of credit secured by substantially all of its assets. The line of credit expires August 31, 2014 and bears interest at the bank's prime rate or 2.25% over LIBOR (totaling 3.25% or 2.92%, respectively at December 31, 2013). The line of credit is subject to maintenance of certain minimum financial conditions determined by the bank and is subject to an annual 30-day clean-up provision. At December 31, 2013, there was no outstanding balance on this line.

LandTek also has available a $2,500,000 equipment line of credit. Borrowings on this line totaled $1,086,954 at December 31, 2013 and are included in long-term debt (see Note 10).

Note 10 - Long-Term Debt

Long-term debt is summarized as follows:

Mortgage note payable - in equal monthly installments of $9,313 including interest of 8.75% per annum through May 2014, guaranteed by the two stockholders of R & S and secured by related property with a net book value of $727,508.	$ [redacted]
Term loans payable - in equal monthly installments ranging from $681 to $2,611 including interest ranging from 2.59% to 2.96% per annum through dates ranging from October 2016 to April 2018, secured by related property with a net book value of $973,203 (see Note 9).	[redacted]
Term loans payable - in equal monthly installments of $6,152 plus interest of 3.01% per annum, secured by related property with a net book value of $424,624 (see Note 9).	[redacted]
Installment loans payable - in equal monthly installments ranging from $261 to $6,471 including interest ranging from 0% to 6.99% per annum through dates ranging from January 2014 to July 2017, secured by related equipment with a net book value of $2,394,853.	[redacted]
	[redacted]
Less: Current maturities	[redacted]
Long-Term Debt	$ [redacted]

Aggregate maturities of long-term debt are as follows:

Years Ending December 31:	
2014	$ [redacted]
2015	[redacted]
2016	[redacted]
2017	[redacted]
2018	[redacted]
	$ [redacted]

Note 11 - Consolidation of Variable Interest Entities

In accordance with FASB ASC Topic 810, *Consolidation*, LandTek has analyzed its relationship with an affiliate, R & S, and determined it is a variable interest entity and LandTek is the primary beneficiary. LandTek is the primary beneficiary of R & S because LandTek has the power to direct the activities of R & S that most significantly impact R & S's economic performance. Those activities include LandTek's guarantee of the mortgage of R & S. In the event that R & S defaults on the mortgage, LandTek would be expected to pay 100% of the then outstanding balance of the debt. LandTek is the primary leaseholder of the building. Therefore, LandTek has consolidated R & S's net assets in these consolidated financial statements.

Should additional financial support be needed for R & S in the future, it is expected that LandTek will provide that additional financial support due to the ownership and leasing relationships between LandTek and R & S. The current sole source of R & S's revenue is primarily the lease payments made by LandTek. R & S's creditors have recourse to the assets of LandTek due to its guarantee of R & S's mortgage.

At December 31, 2013, the total assets and liabilities of R & S were approximately [redacted] and [redacted], respectively. At December 31, 2013, the building had a net book value of approximately [redacted], encumbered by related debt of approximately [redacted] (see Note 10). For the year ended December 31, 2013, revenues and costs of R & S were approximately [redacted] and [redacted] respectively.

Note 12 - Pension Plan

LandTek's pension expense relating to its 401(k) plan amounted to [redacted] for the year ended December 31, 2013.

Note 13 - Multiemployer Plans

LandTek's union employees are covered by collectively bargained employee benefit plans under which LandTek makes contributions on a monthly basis. For the year ended December 31, 2013, LandTek contributed approximately [redacted] these plans, which includes pension costs.

Note 14 - Commitments

LandTek leases office equipment and a parking facility under noncancellable operating leases requiring future minimum rental payments as follows:

Year Ending December 31:	
2014	$ [redacted]

Lease expense charged to operations for the year ended December 31, 2013 amounted to [redacted]

LandTek has entered into a consulting agreement for services to be provided by an entity owned by a former stockholder. The consulting fees are required to be paid in monthly installments of approximately [redacted] through December 2014.

Note 15 - Contingencies

LandTek is contingently liable to its surety under a general indemnity agreement. Under this agreement, the company agrees to indemnify the surety for any payments made on its behalf. The company believes that all contingent liabilities will be satisfied by its performance on the specific contracts covered by the agreement.

In conjunction with the purchase of a prior stockholder's common stock, LandTek has guaranteed a bank term loan to the majority stockholder in the original loan amount of [redacted]. The loan requires monthly payments of [redacted], plus interest at a rate of LIBOR plus 2.5% per annum. In the event the stockholder defaults on the note, LandTek would be expected to repay 100% of the then outstanding balance of the debt. At December 31, 2013, the principal balance of the note is approximately [redacted] and the total remaining interest and principal payments are approximately [redacted].

LandTek is involved in various legal proceedings and litigation arising in the ordinary course of business. Management is of the opinion that the outcome of these actions will not have a material adverse effect on the company's financial statements.

Note 16 - Provision For Income Taxes

The provision for income taxes is summarized as follows:

Current:	
State and local	$ [redacted]

The Company files income tax returns in the U.S. in both federal and State of New York jurisdictions. With few exceptions, the Company is no longer subject to U.S. federal, state or local tax examinations by taxing authorities for years before 2010. The years 2010 to 2012 remain subject to examination by taxing authorities.

Note 17 - Backlog

The following schedule is a reconciliation of backlog representing signed contracts at December 31, 2013:

Balance, December 31, 2012	$ [redacted]
Contract adjustments	[redacted]
New contracts - year ended December 31, 2013	[redacted]
	[redacted]
Less: Contract revenues	[redacted]
Balance, December 31, 2013	$ [redacted]

In addition, the Company has entered into additional construction contracts with estimated revenues of approximately $20,378,000.

Note 18 - Subsequent Events

The Company has evaluated all events or transactions that occurred after December 31, 2013 through the date of these consolidated financial statements, which is the date that the consolidated financial statements were available to be issued. During this period, there were no material subsequent events requiring disclosure.

235 County Line Road, Amityville, NY 11701
Tel (631) 691-2381 www.landtekgroup.com Fax (631) 598-8280

BANK REFERENCE

Company Name:

The LandTek Group, Inc.
235 County Line Road
Amityville, New York 11701
Phone: 631-691-2381
Fax: 631-598-8280

Bank Reference:

HSBC
Jose L. Won
534 Broadhollow Road
Melville, New York 11747
Phone: 631-752-4361
Fax: 631-752-4340

235 County Line Road, Amityville, NY 11701
Tel (631) 691-2381 www.landtekgroup.com Fax (631) 598-8280

The LandTek Group, Inc.

Corporate Shareholder & Officer Information

Name	Address	% Shares
Michael Ryan, President	[redacted]	80%
Edward Ryan Family Trust I	[redacted]	10%
Edward Ryan Family Trust II	[redacted]	10%
Edward Ryan, Vice President Secretary, Treasurer	[redacted]	0%

LANDTEK GROUP, INC.

235 COUNTY LINE ROAD, AMITYVILLE, NY 11701
TEL (631) 691-2381 WWW.LANDTEKGROUP.COM FAX (631) 598-8280

BONDING INFORMATION

Bonding/Surety Company

The Hanover Insurance Company
400 Atrium Drive, Suite 500
Somerset, NJ 08873
732-805-2370

Name of Agent

Lou Spina
Senior Vice President
USI Insurance Services
333 Earle Ovington Blvd., Suite 800
Uniondale, NY 11553
516-419-4092

NOTICE OF AWARD

EDWARD P. MANGANO
COUNTY EXECUTIVE

SHILA SHAH-GAVNOUDIAS, P.E.
COMMISSIONER

COUNTY OF NASSAU
DEPARTMENT OF PUBLIC WORKS
1194 PROSPECT AVENUE
WESTBURY, NEW YORK 11590-2723

NOTICE OF AWARD

December 18, 2014

Michael Ryan, President
The LandTek Group, Inc.
235 County Line Road
Amityville, New York 11701

Dear Mr. Ryan:

As a result of bids received on September 16, 2014, for work to be done under:

CONTRACT NO: H66302U
TITLED: 2014 General Requirements Contract for Various Civil/Site Reconstruction – Highways, Drainage, Bridges, Site, Parking Lots & Park-Related Specialized Items

You are hereby notified that you are awarded the contract by the County of Nassau, for $8,000,000.00, as per Nassau County Resolution Number 326-14, and the County Executive's subsequent approval of the contract. Under the terms of the contract documents, you are required to submit the following at the execution of the contract:

1. **Insurance and Performance and Labor and Material Bonds**: You must submit to the County of Nassau, Department of Public Works, on or before the date of the signing of the contract, two (2) copies of insurance policies, or certificates thereof, and two (2) copies of Performance and Labor and Material Bonds, in the proper form as provided in the contract documents, and a check for Five Hundred Thirty-Three Dollars ($533.00) made payable to the County of Nassau for a processing fee. Two (2) copies of Performance and Labor and Material Bonds are to be executed and dated on or before the same day that the contract is to be executed.

2. **Signing and Execution of the Contract**: Notice is hereby given that you, your partners, or corporate officers with corporate seal, as the case may be, must be at the Department of Public Works office, 1194 Prospect Avenue, Westbury, New York, to sign and execute the contract **no later than 10:30 A.M. on Monday, December 22, 2014**. Your attention is called to the provision in the Instruction to Bidders which provides for forfeiture of bidder's deposit upon failure to comply with the provisions therein for submitting proper Insurances, Performance and Labor and Material Bonds, and the execution of this contract. You are hereby notified that before any materials can be used in the performance of this contract, they must be officially accepted by the Department of Public Works.

Your particular attention is called to the laws and terms of the contract governing employees, limitation of working hours, and minimum and prevailing rates of pay for employees. In addition, payment of wages must be made in cash unless approval to pay otherwise is granted by the State Industrial Commissioner. No subcontractors or suppliers will be permitted unless they are officially registered and approved, in writing, by the County of Nassau.

Very truly yours,

Shila Shah-Gavnoudias, P.E.
Commissioner of Public Works

SSG:KGA:las
c: Kenneth G. Arnold, Assistant to Commissioner of Public Works
Rakhal Maitra, Deputy Commissioner of Public Works
Richard Iadevaio, Jr., Superintendent of Highway & Drainage Construction
Loretta Dionisio, Hydrogeologist II

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AGREEMENT

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COUNTY OF NASSAU
STATE OF NEW YORK
Department of Public Works
AGREEMENT

For furnishing all labor, materials and equipment, together with all work incidental thereto, necessary and required for the contract entitled:

2014 GENERAL REQUIREMENTS CONTRACT
FOR VARIOUS CIVIL/SITE RECONSTRUCTION
HIGHWAYS, DRAINAGE, BRIDGES, SITE, PARKING LOTS AND PARK
RELATED SPECIALIZED ITEMS
NASSAU COUNTY, NEW YORK

Contract No. H66302U

THIS AGREEMENT,

made and executed this _____ day of _____, 20 ____, by and between the County of Nassau, hereinafter called the party of the first part, and

,

the Contractor, hereinafter called the party of the second part.

WITNESSETH:

In consideration of the mutual stipulations, agreements and covenants herein contained, the parties hereto have agreed with each other, the party of the first part, for itself, its successors and assigns, and the party of the second part, for itself or themselves, its successors and assigns, or its or their executors, administrators and assigns, as follows:

ARTICLE I. GENERAL

A. The Contractor shall do all the work and furnish all labor, materials, equipment, tools and appliances, except as hereinafter otherwise stated, that may be necessary and proper for performing and completing the work.

B. The Contractor further agrees that he is fully informed regarding all of the conditions affecting the work to be done and labor and materials to be furnished for the completion of this contract and that his information was secured by personal investigation and research and not from the estimates of the Commissioner of Public Works, and that he will make no claim against the County by reason of estimates, tests or representations of any officer or agent of the County.

ARTICLE II. DEFINITIONS

Whenever the following words appear in this Contract and Specifications hereto attached:

COUNTY:

The word "County" or pronoun used in place thereof shall mean the County of Nassau as above mentioned, represented by it's County Executive, party of the first part.

CONTRACTOR:

The word "Contractor" or pronoun used in place thereof shall mean: the party of the second part of this Agreement, and shall apply thereto regardless of number or gender.

ENGINEER:

The word "Engineer" or pronoun used in place thereof shall mean the Commissioner of Public Works, acting directly or through authorized agent or agents.

HE, HIM, HIMSELF: The word "he" shall mean "he or she", "him" shall mean "him" or "her", "himself" shall mean "himself" or "herself" wherever appropriate throughout the Contract.

NOTICE:

The word "Notice" shall mean written notice. Notice shall be served upon the Contractor, either personally or by leaving the said notice at his residence or with his agent in charge of the work, or with any employee found on the work, or addressed to the Contractor at the residence or place of business given in the bid and deposited in post paid wrapper in any Post Office Box regularly maintained by the United States Post Office.

SPECIFICATIONS:

The word "Specifications" shall mean all of the directions, conditions, requirements and standards of performance applying to the work as hereinafter detailed and designated as such and as contained in the books prepared by the Department of Public Works of Nassau County entitled "2009 Standard Specifications and Detail Sheets for Civil Engineering and Site Development Construction" & "Traffic Signal Specifications & Standard Drawings".

ARTICLE III. SPECIAL CONDITIONS

The said work shall be performed in accordance with the true intent and meaning of the Plans and Specifications therefore which, together with the Proposal, Notice to Bidders, Instruction to Bidders, Notice of Award and the Bond, are hereby referred to and made a part of this

Contract, without any further expense of any nature whatsoever to the County than the consideration named in this Contract. The County, however, reserves the right to make such additions, deductions or changes, as it deems necessary, making an addition or deduction therefore at the prices named in the proposal for this work; and this Contract shall in no way be invalidated thereby, and no claim shall be made by the Contractor for any loss of anticipated profits because of any such change, or by reason of any variation between the approximate quantities and the quantities of the work as done.

ARTICLE IV. EXTRA WORK

It is further agreed that any material to be furnished or work necessary to be done other than that specified in this Contract shall be covered by a supplemental contract or resolution and that no claim will be made by the Contractor for any such work performed or material furnished before such supplemental contract shall have been approved or passed by the County Executive.

ARTICLE V. DETERMINATION AND DECISIONS

The work under this Contract shall be done to the satisfaction of the County Executive and Commissioner of Public Works, and in full accordance with the Plans and Specifications or any amendments or additions thereto, and before final acceptance by the County Executive all matters of dispute must be adjusted to the mutual satisfaction of the parties hereto. Determinations and Decisions, in case any question shall arise, shall constitute a condition precedent to the right of the Contractor to receive any money thereof, until the matter in question has been adjusted.

ARTICLE VI. ABANDONMENT OF WORK

It is mutually agreed that if the work to be done under this Contract shall be abandoned, or if this Contract or any part thereof shall be sublet without the consent of the Commissioner of Public Works being first obtained in writing, or if this Contract or any claim thereunder shall be assigned by the Contractor otherwise than as herein specified, or if at any time, the Commissioner of Public Works shall be of the opinion that the conditions herein specified as to the rate of progress are not fulfilled, or that the work or any part thereof is unnecessary or unreasonably delayed, or that the Contractor is violating any of the provisions of this Contract, the Commissioner of Public Works, with the approval of the County Executive without prejudice to any other rights or remedy of the County shall notify the Contractor by a written notice to discontinue the work, or such part thereof, and cease to have any right to possession of the ground, and the County shall thereupon have the right by contract, or otherwise, as may be determined, to complete the work or such part thereof, and to charge the expense thereof to Contractor, and take possession of and use therein such materials plant and machinery, implements and tools of every description as may be found upon said work. The expense so charged shall be deducted and paid by the County out of the monies due or to become

due the Contractor under this Contract, or any part thereof; and in case such expense is more than the sum which would have been payable under this Contract if the Contract had been completed by the Contractor, the Contractor and his sureties shall pay the amount of such expense to the County of Nassau.

ARTICLE VII. MACHINERY AND PLANT

The Contractor shall furnish at his own cost all transportation, apparatus, ways, works, machinery, and plant, and also suitable appliances requisite for the execution of this Contract, and shall be solely answerable for the same, and for the safe, proper and lawful construction, maintenance and use thereof. The Contractor shall cover and protect the work from damage, and all injury to the same before completion of this Contract and its acceptance by the County Executive shall be made good by the Contractor who shall be solely answerable for all damages to the County, to the neighboring premises, or to any private or personal property due to improper, illegal or negligent conduct of himself or his subcontractor, employees or agents in or about the said work, or in the execution of the work covered by this Contract or any extra work undertaken, as hereinafter provided, or to any defect in or improper use of scaffolding, apparatus, ways, works, machinery and plant. He shall assume the defense and save harmless the County, it's officers or agents from all claims whatsoever relating to labor or materials furnished for the work, or to inventions, patents or patent rights used in the work or in doing the work.

ARTICLE VIII. PATENTED DEVICE, MATERIAL AND PROCESSES

It is mutually understood and agreed that contract prices are to include all royalties and costs arising from patents, trademarks and copyrights in any way involved in the work. Whenever the Contractor is required or desires to use any design, device, material or process covered by letters patent or copyright, the Contractor shall indemnify and save harmless the County of Nassau from any and all claims for infringement by reason of the use of any such patented design, device, material or process, to be performed under the Contract and shall indemnify the said County for any costs, expenses and damages which it may be obliged to pay, by reason of any such infringement, at any time during the prosecution or after the completion of the work.

ARTICLE IX. RESPONSIBILITY FOR INJURIES TO PERSONS AND PROPERTY.

A. The Contractor shall be solely responsible for physical injuries (including death) to persons (including, but not limited to, employees of the Contractor and subcontractors and employees of the County of Nassau) or damage to property (including, but not limited to, property of the County of Nassau or the Contractor or subcontractors) occurring on account of or in connection with the performance of the work hereunder or sustained by any employee of the Contractor, a subcontractor, County of Nassau or other persons while at the site of the work, and shall indemnify and save harmless the County of Nassau from loss and liability upon any and all claims

on account of such injuries to persons (including death) or damage to property, and from all costs and expenses in suits which may be brought against the County of Nassau on account of any such injuries to persons or damage to property, irrespective of the actual cause of the accident and irrespective of whether it shall have been due to negligence of the Contractor or his subcontractors or negligence of the County of Nassau, their respective agents, servants or employees.

B. The term "loss and liability", as used herein, shall be deemed to include, but not to be limited to, liability for the payment of Worker's Compensation under the Worker's Compensation Law of the State of New York, and the Contractor specifically covenants to reimburse the County of Nassau for all payments of Worker's Compensation which the County of Nassau shall be required to make to any employee who shall claim to have sustained injuries on account of or in connection with the work hereunder, whether or not such injuries shall have been sustained as a result or negligence of the Contractor, his subcontractors, the County of Nassau, their respective agents, servants or employees, or negligence of the injured employee.

C. The Contractor shall be solely responsible for all injuries to person or damage to property therein occurring on account of the performance of work under this Contract whether due to negligence, fault or default of the Contractor or not, and irrespective of whether it shall have been due to the negligence, fault or default of the County of Nassau, it's respective agents, servants or employees. The Contractor shall fully protect, indemnify and save harmless the County of Nassau from loss and from liability upon any and all claims on account of such injuries to employees or other persons or damage to property on account of any work done by the Contractor and from any costs and expenses in suits which may be brought against the County of Nassau for such damages or injuries.

D. The obligation of the Contractor to indemnify and save harmless the County of Nassau as herein above set forth is absolute and not dependent upon any question of negligence on the part of the Contractor, the subcontractor, the County of Nassau, their respective agents, servants or employees. The approval by the County of Nassau of the methods of doing the work or the failure of the County of Nassau to call attention to improper or inadequate methods or to require a change in methods or to direct the Contractor to take any particular precautions or to refrain from doing any particular thing shall not excuse the Contractor in case of any such injury to person or damage to property.

E. The Contractor shall take out and maintain during the life of this Contract a liability insurance policy and renewals thereof, issued by an insurance company approved by the County of Nassau, insuring the Contractor at all times during the life of the Contract against loss by reason of his contractual liability under this ARTICLE with limits of * for injuries to persons (including death) and * for

damage to property. A Certificate of the issuance of such insurance policy shall be delivered to the County of Nassau upon the execution and delivery of this Contract and such Certificate shall contain an agreement by the insurance company issuing the policy that the policy will not be canceled without 10 days prior notice to the County of Nassau. At least 2 weeks prior to the expiration of the original policy or any renewal thereof a new certificate of the renewal of such insurance, containing an agreement by the insurance company that the insurance will not be canceled without 10 days prior notice to the County of Nassau shall be delivered to the County of Nassau.

* See Article XXVI for schedule.

ARTICLE X. TIME OF START AND COMPLETION

A. The Contractor shall commence work on the day specified in the Notice To Proceed signed by the Commissioner. Time being of the essence of this contract, the contractor shall thereafter prosecute the work diligently, using such means and methods of construction as will assure its full completion, in accordance with the requirements of the Contract Documents, not later than the date specified in the said notice.

B. Unless the date for completion is extended as herein provided, the Contractor shall complete the work in the number of consecutive calendar days fixed in this contract. The period for performance shall start from the day specified in the Commissioner's Notice To Proceed.

C. Unless approved in writing by the County, in its sole and absolute discretion, no contractual work shall be permitted on Official County Holidays. The Contractor is responsible for coordination with the County Engineer and/or his duly authorized representative prior to the start of work to determine the date(s) of observance of the Official County Holiday(s) that may occur during the course of the Contract. The Official County Holidays are: New Years Day, Martin Luther King, Jr. Day, Lincoln's Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Election Day, Veteran's Day, Thanksgiving Day, Friday after Thanksgiving Day and Christmas Day. Failure of the Contractor(s) to consider Official County Holidays during the preparation of their work plans and schedules shall not be cause for a delay claim against the County. Should circumstances arise, during the course of the Contract, where the Contractor requests approval to work on an Official County Holiday and it is granted, the Contractor will be required to reimburse the County for the cost of providing inspection services. Furthermore, failure of the Contractor to have considered such contingency costs in his bid price shall not be cause for an extra work claim to the County at a later date.

ARTICLE XI. EXTENSION OF TIME

A. It is mutually agreed that no extension beyond the date of completion fixed by the terms of this Contract shall be effective unless in writing signed by the Commissioner of Public Works. Such extension shall be for such time and upon such terms and conditions as shall be fixed by the Commissioner of Public Works, which may include a charge for engineering and inspection expenses actually incurred upon the work. Applications for such extension shall be filed by the Contractor with the Commissioner of Public Works at least fifteen (15) days prior to the date of expiration fixed by the terms of this agreement.

B. The Contractor agrees to make no claim for damages for delay in performance of this Contract occasioned by any act or omission to act by the County or any of its representatives and agrees that any such claim shall be fully compensated for by an extension of time to complete the performance of the work as provided herein.

ARTICLE XII. LIQUIDATED DAMAGES

It is mutually agreed between the parties that time is of the essence in this Contract, and that there will be on the part of the County considerable monetary damage in the event of any delay in the completion of the same. The sum of $ 500.00 per day is hereby agreed upon as the liquidated damages for each and every day after the specified date of completion in which the work remains in an incomplete condition, which amount shall in no event be considered as a penalty or otherwise than as the liquidated and adjusted damages of the County because of the said delay. The party of the second part hereby agrees that the sum of $ 500.00 for each such day shall be deducted and retained out of monies which may become due hereunder. The County agrees that the date when such liquidated damages shall cease to accrue shall be the date of advise of completion as given by the Commissioner of Public Works, and waives the right of such liquidated damages as to the period covered by the final inspection and by notice to any parties interested. When work is stopped by order of the Commissioner of Public Works during the Winter, the liquidated damages will be waived for the period until work may be resumed in the following spring.

* See Article XXVI for schedule.

ARTICLE XIII. INSURANCE AND BOND REQUIREMENTS

A. GENERAL

1. At the execution of this contract, the contractor, at his own expense, must furnish those insurance policies and bonds as described below. Insurance certificates will be acceptable at date of contractor's signing.

2. All insurance policies and bonds must remain in effect throughout the duration of this contract.

3. Limits of liability are described in the Schedule of Requirements (Article XXVI) of this agreement.

B. CONTRACTOR'S PUBLIC LIABILITY INSURANCE

The contractor shall procure such Public Liability Insurance as shall protect him and his subcontractor(s) or any one directly or indirectly employed by either of them from claims for damage for bodily injury, including death, as well for claims for damage to property which may arise from operations under this contract.

C. WORKER'S COMPENSATION INSURANCE

In accordance with the laws of The State of New York, failure to comply with this provision shall make this contract void.

D. OWNER'S CONTINGENT PUBLIC LIABILITY INSURANCE

The Contractor shall also furnish Owners Contingent Public Liability Insurance protecting, as the named insured;

1. The County of Nassau;
2. all Municipalities, Municipal Sub-Divisions; and
3. Fee Owners of Properties,
4. Consultants

on which work is being done, each to the full limits of liability as are listed in the Schedule of Requirements (Article XXVI) of this agreement, against claims arising from the operations of the Contractor and his subcontractors.

E. BONDS

The Contractor shall execute both a Performance Bond and a Labor and Material Bond, each in the amount of $1,500,000.00 one million five hundred thousand dollars, to remain in effect for the duration of the contract, which includes the Maintenance/Guarantee period Such bonds to be executed by a surety company authorized to do business in the State of New York and acceptable to the County; Copies of both bond forms are provided with the Contract Bid Documents, and must be used, no other forms are acceptable. The Performance bond and Labor and Material Bond shall serve as security for the faithful performance of this Contract and for the payment of all persons performing labor and furnishing materials in connection with this Contract.

All Bonds shall be issued by a Surety Company authorized to do business in the State of New York as evidenced by the Surety Company's most recent Certificate of Solvency under Section 1111 of the New York Insurance Law, a copy of which **must** be attached to the Bond. The amount of said Bond shall not exceed the limits set by the aforesaid Certificates of Solvency.

ARTICLE XIV. ARREARS TO COUNTY (Sec. 2206 COUNTY CHARTER)

The Contractor warrants that he is not in arrears to the County upon debt or contract, and that he is not a defaulter, as surety, contractor or otherwise.

ARTICLE XV. WORKER'S COMPENSATION LAW

Pursuant to the provisions of Chapter Four Hundred and Seventy-eight of the Laws of Nineteen Hundred Sixteen or amendments thereto, this Contract shall be void and if no effect unless the party of the second part shall secure compensation for the benefit of, and keep insured during the life of this Contract, such employees as are required to be insured by the provisions of Chapter Forty-one of the Laws of Nineteen Hundred Fourteen and acts amendatory thereto, known as the "Worker's Compensation Law."

ARTICLE XVI. LABOR LAWS AND NOTICE OF EMPLOYEES' RIGHTS

An updated New York State Schedule of Prevailing Hourly Wage Rates for this Contract have been applied for and should be attached. If the updated schedule has not been received at the time of bid, they will be attached and made part of this agreement prior to execution of Contract, the Prevailing Wage Rates apply.

1. All persons employed to perform any work under this contract, must be provided with major medical and hospitalization benefits for the duration of this contract. Such benefits may be provided through a monthly lump-sum payment to the health care insurer of the employee's choice. Nothing herein shall be deemed to require the establishment or maintenance of an employee benefit plan.

2. No apprentice employed by the Contractor or any of his Subcontractors shall be permitted to perform any work required under this contract unless said apprentice is individually enrolled in, or a graduate of, a New York State approved apprentice training program registered with the Commissioner of Labor, and in conformity with Article 23 of the New York State Labor Law.

3. The Contractor must pay all wages and supplements required by law. Cash payments in lieu of fringe benefit supplements may be made at the option of the contractor, but any such cash payments must be made by check, draft or order payable to the employee. Records of such cash payments must be made promptly available for inspection upon request for the Nassau County Office of Labor Relations.

4. Posting of Notices
   a. Every Contractor who is a party to a public works contract with the County of Nassau shall, on behalf of

its employees, Subcontractors, employees of Subcontractors and independent Contractors of Subcontractors, acknowledges and agrees to establish and maintain a Bulletin Board at or near the established job site Management Office or at such site as the Nassau County Department of Public Works directs, for the conspicuous posting of Notices including the New York State Department of Labor Schedules of Prevailing Wages and Supplements applicable to the Project, Worker's Compensation Law Notices, and all other Notices which are required by law and such Notices as the County of Nassau may require the Contractor to post at the site. To the extent practicable, notice must be posted in such a manner so that the general public may view same at the entrance to the job site.

b. Such posting shall be secure from deterioration and/or obliteration by the elements, defacement, and acts of vandalism.

c. Notices shall be maintained in a legible manner and shall be replaced if damaged, defaced, rendered illegible or removed for any reason.

d. The posting of such Notices shall be undertaken prior to commencement of work at the site, if practical and feasible, and shall be maintained until the project has been substantially completed.

e. Said notice shall include the telephone number and address of the New York State Department of Labor, Bureau of Public Works.

f. For multiple prime contracts, each Contractor is required to provide the above, and identify the Contract to which it pertains. Nothing herein shall be construed to relieve the Contractor from posting requirements otherwise required by law.

5. Providing Notice to Employees

a. The Contractor shall, on behalf of its employees, Subcontractors, employees of Subcontractors and independent Contractors of Subcontractors, provide written notice to each employee including all his Subcontractors employees that he or she is entitled to receive the prevailing wage and supplements for the occupation for which he or she has been hired. Suchwritten notice shall be given to the employee at or before such individual commences work at the Project Site.

b. The Contractor shall obtain from each employee a written

acknowledgment that the employee has received a copy of such notice and is receiving the prevailing wage rate. For the purpose of this section, an employee includes, in addition to those immediately under the hire and/or supervision of the Contractor, employees and independent contractors of subcontractors engaged in work at the Project Site. The written acknowledgments of the employees required herein shall accompany each month's partial payment request.

6. Payroll Records

   a. The Contractor shall, on behalf of its employees, Subcontractors, employees of Subcontractors and independent Contractors of Subcontractors, maintain at the job site (or such place designated by the County of Nassau) original payrolls, employee attendance records and/or transcripts thereof as are required to be maintained pursuant to Section 220 of the New York Labor Law and shall maintain the written acknowledgments of the employees as required above with the payrolls and transcripts.

   b. The Contractor shall, on behalf of its employees, Subcontractors, employees of Subcontractors and independent Contractors of Subcontractors, provide to the Resident Project Engineer the Nassau County Director of Labor Relations (or other individuals designated by the County of Nassau) upon application for payment an employment attendance sheet for all employees, including employees of Subcontractors, for each day on which work is performed on the site, upon a form acceptable to the County of Nassau, containing such information as the County of Nassau deems appropriate, including job classification, hours of employment, wage rate and supplements payable and employer. A current attendance record shall be maintained at a location designated by the County of Nassau.

   c. Every Contractor on a public works contract to which Nassau County is a party shall, on behalf of its employees, Subcontractors, employees of Subcontractors and independent Contractors of Subcontractors, submit a transcript of its original payroll record for all work performed by the Contractor to the Public Works Commissioner of the County of Nassau, the Clerk of the Nassau County Legislature and to the Nassau County Office of Labor Relations within thirty days after the issuance of its first payroll, and every thirty days thereafter. Submissions shall be in such a form as to comply with Section 220 of the Labor Law.

   d. Upon receipt of a copy of the prevailing rate schedule

of wages and supplements specified in the public improvement contract, or of a subsequently issued prevailing rate schedule, every Contractor and Subcontractor shall provide a verified statement attesting that the Contractor and Subcontractor has received and reviewed such schedule of wages and supplements, or subsequently issued schedule, and agrees that it will pay the applicable prevailing wages and will provide the supplements specified therein. Such verified statement shall be filed with the Public Works Commissioner of the County of Nassau and the Clerk of the Nassau County Legislature. It shall be a violationof Local Law 1998 for any Contractor or its Subcontractor to fail to provide to its Subcontractor a copy of the prevailing rate schedule of wages and supplements specified in the contract as well as any prevailing rate issued subsequent to the schedule specified in the contract.

e. Before the Contractor may request a progress Payment for any item of work performed by a Subcontractor, the Contractor shall furnish the County of Nassau with a copy of that Subcontractor's verified statement required by New York Labor Law Section 220-a. Before issuance of the final payment, the Contractor shall furnish the County with the original certifications and verified statements required by New York Labor Law Section 220-a.

f. Before final payment is made by or on behalf of the county for any sum or sums due on account of a contract for a public improvement, it shall be the duty of the Nassau County Comptroller to require the Contractor to file every verified statement required to be obtained by the Contractor from its Subcontractors pursuant to subdivision two of Local Law 1998 and to file a statement in writing in form satisfactory to such officer certifying to the amounts then due and owing from such Contractor filing such statement to or on behalf of any and all laborers for daily or weekly wages or supplements on account of labor performed upon the work under the contract, setting forth therein the names of the persons whose wages or supplements are unpaid and the amount due to each or on behalf of each respectively. Such statement shall also set forth the amounts known by the Contractor to be then due and owing from each Subcontractor, or from a Subcontractor of such Subcontractor, for wages or supplements, or shall certify that the Contractor has no knowledge of such amounts owing to or on behalf of any laborers of its Subcontractors, and that in the event it is determined by the Commissioner that the wages or supplements or both of any employees of such Subcontractors have not been paid or provided pursuant to the appropriate

schedule of wages and supplements, the Contractor shall be responsible for payment of such wages or supplements pursuant to New York State law. Such statements so to be filed shall be verified by the oath of the Contractor that he or she has read such statement subscribed by him or her and knows the contents thereof, and that the same is true of his or her own knowledge except with respect to wages and supplements owing by Subcontractors which may be certified upon information and belief..

g. The Contractor shall ensure that all employees on the job site shall have received appropriate training and possess all required state and county licenses for specialty, craft, skill, trade or other professional or licensed trades.
h. No Contractor, Subcontractor, nor any person acting on its behalf should in any manner discriminate because of race, creed, color, religion, sex, national origin, age, marital status, or disability, against any citizen of the State of New York who is qualified and available to perform the work to which the employment relates.

PREVENTION OF DELAY

The Contractor and his Subcontractors shall not employ any labor or means whose employment or utilization during the course of this Contract, may tend to, or in any way cause, or result in, strikes, work stoppages, delays, suspension of work or similar troubles by workmen employed by the Contractor or his Subcontractors, or by any of the trades working in or about the job sites where work is being performed under this Contract, or any other Contract on the job site. Any violation of this requirement by the Contractor may, upon written determination of the Commissioner of Public Works, be considered as proper and sufficient cause for canceling and terminating this Contract without any penalty to the COUNTY and the COUNTY shall be entitled to recover any damages from the Contractor that may have been caused by such violation.

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NEW YORK STATE

SCHEDULE OF PREVAILING HOURLY WAGE RATES

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Nassau County Dept Public Work

Loretta Dionisio, Hydrogeologist II
1194 Prospect Avenue
Westbury NY 11590

Schedule Year 2014 through 2015
Date Requested 08/21/2014
PRC# 2014007923

Location Nassau County, Various
Project ID# H66302U
Project Type The work covered by this contract involves furnishing labor, materials, tools, equipment and incidentals as specified for the rehabilitation and/or installation, modification and/or

PREVAILING WAGE SCHEDULE FOR ARTICLE 8 PUBLIC WORK PROJECT

Attached is the current schedule(s) of the prevailing wage rates and prevailing hourly supplements for the project referenced above. A unique Prevailing Wage Case Number (PRC#) has been assigned to the schedule(s) for your project.

The schedule is effective from July 2014 through June 2015. All updates, corrections, posted on the 1st business day of each month, and future copies of the annual determination are available on the Department's website www.labor.state.ny.us. Updated PDF copies of your schedule can be accessed by entering your assigned PRC# at the proper location on the website.

It is the responsibility of the contracting agency or its agent to annex and make part, the attached schedule, to the specifications for this project, when it is advertised for bids and /or to forward said schedules to the successful bidder(s), immediately upon receipt, in order to insure the proper payment of wages.

Please refer to the "General Provisions of Laws Covering Workers on Public Work Contracts" provided with this schedule, for the specific details relating to other responsibilities of the Department of Jurisdiction.

Upon completion or cancellation of this project, enter the required information and mail **OR** fax this form to the office shown at the bottom of this notice, **OR** fill out the electronic version via the NYSDOL website.

NOTICE OF COMPLETION / CANCELLATION OF PROJECT

Date Completed: _____ Date Cancelled: _____

Name & Title of Representative: _____

Phone: (518) 457-5589 Fax: (518) 485-1870
W. Averell Harriman State Office Campus, Bldg. 12, Room 130, Albany, NY 12240

General Provisions of Laws Covering Workers on Article 8 Public Work Contracts

Introduction

The Labor Law requires public work contractors and subcontractors to pay laborers, workers, or mechanics employed in the performance of a public work contract not less than the prevailing rate of wage and supplements (fringe benefits) in the locality where the work is performed.

Responsibilities of the Department of Jurisdiction

A Department of Jurisdiction (Contracting Agency) includes a state department, agency, board or commission: a county, city, town or village; a school district, board of education or board of cooperative educational services; a sewer, water, fire, improvement and other district corporation; a public benefit corporation; and a public authority awarding a public work contract.

The Department of Jurisdiction (Contracting Agency) awarding a public work contract MUST obtain a Prevailing Rate Schedule listing the hourly rates of wages and supplements due the workers to be employed on a public work project. This schedule may be obtained by completing and forwarding a "Request for wage and Supplement Information" form (PW 39) to the Bureau of Public Work. The Prevailing Rate Schedule MUST be included in the specifications for the contract to be awarded and is deemed part of the public work contract.

Upon the awarding of the contract, the law requires that the Department of Jurisdiction (Contracting Agency) furnish the following information to the Bureau: the name and address of the contractor, the date the contract was let and the approximate dollar value of the contract. To facilitate compliance with this provision of the Labor Law, a copy of the Department's "Notice of Contract Award" form (PW 16) is provided with the original Prevailing Rate Schedule.

The Department of Jurisdiction (Contracting Agency) is required to notify the Bureau of the completion or cancellation of any public work project. The Department's PW 200 form is provided for that purpose.

Both the PW 16 and PW 200 forms are available for completion online.

Hours

No laborer, worker, or mechanic in the employ of a contractor or subcontractor engaged in the performance of any public work project shall be permitted to work more than eight hours in any day or more than five days in any week, except in cases of extraordinary emergency. The contractor and the Department of Jurisdiction (Contracting Agency) may apply to the Bureau of Public Work for a dispensation permitting workers to work additional hours or days per week on a particular public work project.

There are very few exceptions to this rule. Complete information regarding these exceptions is available on the "4 Day / 10 Hour Work Schedule" form (PW 30R).

Wages and Supplements

The wages and supplements to be paid and/or provided to laborers, workers, and mechanics employed on a public work project shall be not less than those listed in the current Prevailing Rate Schedule for the locality where the work is performed. If a prime contractor on a public work project has not been provided with a Prevailing Rate Schedule, the contractor must notify the Department of Jurisdiction (Contracting Agency) who in turn must request an original Prevailing Rate Schedule form the Bureau of Public Work. Requests may be submitted by: mail to NYSDOL, Bureau of Public Work, State Office Bldg. Campus, Bldg. 12, Rm. 130, Albany, NY 12240; Fax to Bureau of Public Work (518) 485-1870; or electronically at the NYSDOL website www.labor.state.ny.us.

Upon receiving the original schedule, the Department of Jurisdiction (Contracting Agency) is REQUIRED to provide complete copies to all prime contractors who in turn MUST, by law, provide copies of all applicable county schedules to each subcontractor and obtain from each subcontractor, an affidavit certifying such schedules were received. If the original schedule expired, the contractor may obtain a copy of the new annual determination from the NYSDOL website www.labor.state.ny.us.

The Commissioner of Labor makes an annual determination of the prevailing rates. This determination is in effect from July 1st through June 30th of the following year. The annual determination is available on the NYSDOL website www.labor.state.ny.us.

Payrolls and Payroll Records

Every contractor and subcontractor MUST keep original payrolls or transcripts subscribed and affirmed as true under penalty of perjury. Payrolls must be maintained for at least three (3) years from the project's date of completion. At a minimum, payrolls must show the following information for each person employed on a public work project: Name, Address, Last 4 Digits of Social Security Number, Classification(s) in which the worker was employed, Hourly wage rate(s) paid, Supplements paid or provided, and Daily and weekly number of hours worked in each classification.

Every contractor and subcontractor shall submit to the Department of Jurisdiction (Contracting Agency), within thirty (30) days after issuance of its first payroll and every thirty (30) days thereafter, a transcript of the original payrolls, subscribed and affirmed as true under penalty of perjury. The Department of Jurisdiction (Contracting Agency) shall collect, review for facial validity, and maintain such payrolls.

In addition, the Commissioner of Labor may require contractors to furnish, with ten (10) days of a request, payroll records sworn to as their validity and accuracy for public work and private work. Payroll records include, by are not limited to time cards, work description sheets, proof that supplements were provided, cancelled payroll checks and payrolls. Failure to provide the requested information within the allotted ten (10) days will result in the withholding of up to 25% of the contract, not to exceed $100,000.00. If the contractor or subcontractor does not maintain a place of business in New York State and the amount of the contract exceeds $25,000.00, payroll records and certifications must be kept on the project worksite.

The prime contractor is responsible for any underpayments of prevailing wages or supplements by any subcontractor.

All contractors or their subcontractors shall provide to their subcontractors a copy of the Prevailing Rate Schedule specified in the public work contract as well as any subsequently issued schedules. A failure to provide these schedules by a contractor or subcontractor is a violation of Article 8, Section 220-a of the Labor Law.

All subcontractors engaged by a public work project contractor or its subcontractor, upon receipt of the original schedule and any subsequently issued schedules, shall provide to such contractor a verified statement attesting that the subcontractor has received the Prevailing Rate Schedule and will pay or provide the applicable rates of wages and supplements specified therein. (See NYS Labor Laws, Article 8 . Section 220-a).

Determination of Prevailing Wage and Supplement Rate Updates Applicable to All Counties

The wages and supplements contained in the annual determination become effective July 1st whether or not the new determination has been received by a given contractor. Care should be taken to review the rates for obvious errors. Any corrections should be brought to the Department's attention immediately. It is the responsibility of the public work contractor to use the proper rates. If there is a question on the proper classification to be used, please call the district office located nearest the project. Any errors in the annual determination will be corrected and posted to the NYSDOL website on the first business day of each month. Contractors are responsible for paying these updated rates as well, retroactive to July 1st.

When you review the schedule for a particular occupation, your attention should be directed to the dates above the column of rates. These are the dates for which a given set of rates is effective. To the extent possible, the Department posts rates in its possession that cover periods of time beyond the July 1st to June 30th time frame covered by a particular annual determination. Rates that extend beyond that instant time period are informational ONLY and may be updated in future annual determinations that actually cover the then appropriate July 1st to June 30th time period.

Withholding of Payments

When a complaint is filed with the Commissioner of Labor alleging the failure of a contractor or subcontractor to pay or provide the prevailing wages or supplements, or when the Commissioner of Labor believes that unpaid wages or supplements may be due, payments on the public work contract shall be withheld from the prime contractor in a sufficient amount to satisfy the alleged unpaid wages and supplements, including interest and civil penalty, pending a final determination.

When the Bureau of Public Work finds that a contractor or subcontractor on a public work project failed to pay or provide the requisite prevailing wages or supplements, the Bureau is authorized by Sections 220-b and 235.2 of the Labor Law to so notify the financial officer of the Department of Jurisdiction (Contracting Agency) that awarded the public work contract. Such officer MUST then withhold or cause to be withheld from any payment due the prime contractor on account of such contract the amount indicated by the Bureau as sufficient to satisfy the unpaid wages and supplements, including interest and any civil penalty that may be assessed by the Commissioner of Labor. The withholding continues until there is a final determination of the underpayment by the Commissioner of Labor or by the court in the event a legal proceeding is instituted for review of the determination of the Commissioner of Labor.

The Department of Jurisdiction (Contracting Agency) shall comply with this order of the Commissioner of Labor or of the court with respect to the release of the funds so withheld.

Summary of Notice Posting Requirements

The current Prevailing Rate Schedule must be posted in a prominent and accessible place on the site of the public work project. The prevailing wage schedule must be encased in, or constructed of, materials capable of withstanding adverse weather conditions and be titled "PREVAILING RATE OF WAGES" in letters no smaller than two (2) inches by two (2) inches.

The "Public Work Project" notice must be posted at the beginning of the performance of every public work contract, on each job site.

Every employer providing workers. compensation insurance and disability benefits must post notices of such coverage in the format prescribed by the Workers. Compensation Board in a conspicuous place on the jobsite.

Every employer subject to the NYS Human Rights Law must conspicuously post at its offices, places of employment, or employment training centers, notices furnished by the State Division of Human Rights.

Employers liable for contributions under the Unemployment Insurance Law must conspicuously post on the jobsite notices furnished by the NYS Department of Labor.

Apprentices

Employees cannot be paid apprentice rates unless they are individually registered in a program registered with the NYS Commissioner of Labor. The allowable ratio of apprentices to journeyworkers in any craft classification can be no greater than the statewide building trade ratios promulgated by the Department of Labor and included with the Prevailing Rate Schedule. An employee listed on a payroll as an apprentice who is not registered as above or is performing work outside the classification of work for which the apprentice is indentured, must be paid the prevailing journeyworker's wage rate for the classification of work the employee is actually performing.

NYSDOL Labor Law, Article 8, Section 220-3, require that only apprentices individually registered with the NYS Department of Labor may be paid apprenticeship rates on a public work project. No other Federal or State Agency of office registers apprentices in New York State.

Persons wishing to verify the apprentice registration of any person must do so in writing by mail, to the NYSDOL Office of Employability Development / Apprenticeship Training, State Office Bldg. Campus, Bldg. 12, Albany, NY 12240 or by Fax to NYSDOL Apprenticeship Training (518) 457-7154. All requests for verification must include the name and social security number of the person for whom the information is requested.

The only conclusive proof of individual apprentice registration is written verification from the NYSDOL Apprenticeship Training Albany Central office. Neither Federal nor State Apprenticeship Training offices outside of Albany can provide conclusive registration information.

It should be noted that the existence of a registered apprenticeship program is not conclusive proof that any person is registered in that program. Furthermore, the existence or possession of wallet cards, identification cards, or copies of state forms is not conclusive proof of the registration of any person as an apprentice.

Interest and Penalties

In the event that an underpayment of wages and/or supplements is found:

- Interest shall be assessed at the rate then in effect as prescribed by the Superintendent of Banks pursuant to section 14-a of the Banking Law, per annum from the date of underpayment to the date restitution is made.
- A Civil Penalty may also be assessed, not to exceed 25% of the total of wages, supplements, and interest due.

Debarment

Any contractor or subcontractor and/or its successor shall be ineligible to submit a bid on or be awarded any public work contract or subcontract with any state, municipal corporation or public body for a period of five (5) years when:

- Two (2) willful determinations have been rendered against that contractor or subcontractor and/or its successor within any consecutive six (6) year period.
- There is any willful determination that involves the falsification of payroll records or the kickback of wages or supplements.

Criminal Sanctions

Willful violations of the Prevailing Wage Law (Article 8 of the Labor Law) may be a felony punishable by fine or imprisonment of up to 15 years, or both.

Discrimination

No employee or applicant for employment may be discriminated against on account of age, race, creed, color, national origin, sex, disability or marital status.

No contractor, subcontractor nor any person acting on its behalf, shall by reason of race, creed, color, disability, sex or national origin discriminate against any citizen of the State of New York who is qualified and available to perform the work to which the employment relates (NYS Labor Law, Article 8, Section 220-e(a)).

No contractor, subcontractor, nor any person acting on its behalf, shall in any manner, discriminate against or intimidate any employee on account of race, creed, color, disability, sex, or national origin (NYS Labor Law, Article 8, Section 220-e(b)).

The Human Rights Law also prohibits discrimination in employment because of age, marital status, or religion.

There may be deducted from the amount payable to the contractor under the contract a penalty of $50.00 for each calendar day during which such person was discriminated against or intimidated in violation of the provision of the contract (NYS Labor Law, Article 8, Section 220-e(c)).

The contract may be cancelled or terminated by the State or municipality. All monies due or to become due thereunder may be forfeited for a second or any subsequent violation of the terms or conditions of the anti-discrimination sections of the contract (NYS Labor Law, Article 8, Section 220-e(d)).

Every employer subject to the New York State Human Rights Law must conspicuously post at its offices, places of employment, or employment training centers notices furnished by the State Division of Human Rights.

Workers' Compensation

In accordance with Section 142 of the State Finance Law, the contractor shall maintain coverage during the life of the contract for the benefit of such employees as required by the provisions of the New York State Workers' Compensation Law.

A contractor who is awarded a public work contract must provide proof of workers' compensation coverage prior to being allowed to begin work.

The insurance policy must be issued by a company authorized to provide workers' compensation coverage in New York State. Proof of coverage must be on form C-105.2 (Certificate of Workers' Compensation Insurance) and must name this agency as a certificate holder.

If New York State coverage is added to an existing out-of-state policy, it can only be added to a policy from a company authorized to write workers' compensation coverage in this state. The coverage must be listed under item 3A of the information page.

The contractor must maintain proof that subcontractors doing work covered under this contract secured and maintained a workers' compensation policy for all employees working in New York State.

Every employer providing worker's compensation insurance and disability benefits must post notices of such coverage in the format prescribed by the Workers' Compensation Board in a conspicuous place on the jobsite.

Unemployment Insurance

Employers liable for contributions under the Unemployment Insurance Law must conspicuously post on the jobsite notices furnished by the New York State Department of Labor.

Andrew M. Cuomo, Governor

Peter M. Rivera, Commissioner

Nassau County Dept Public Work

Loretta Dionisio, Hydrogeologist II
1194 Prospect Avenue
Westbury NY 11590

Schedule Year 2014 through 2015
Date Requested 08/21/2014
PRC# 2014007923

Location Nassau County, Various
Project ID# H66302U
Project Type The work covered by this contract involves furnishing labor, materials, tools, equipment and incidentals as specified for the rehabilitation and/or installation, modification and/or

Notice of Contract Award

New York State Labor Law, Article 8, Section 220.3a requires that certain information regarding the awarding of public work contracts, be furnished to the Commissioner of Labor. One "Notice of Contract Award" (PW 16, which may be photocopied), **MUST** be completed for **EACH** prime contractor on the above referenced project.

Upon notifying the successful bidder(s) of this contract, enter the required information and mail **OR** fax this form to the office shown at the bottom of this notice, **OR** fill out the electronic version via the NYSDOL website.

Contractor Information
All information must be supplied

Federal Employer Identification Number: _____

Name: _____

Address: _____

_____

City: _____ State: _____ Zip: _____

Amount of Contract: $_____

Approximate Starting Date: ___/___/___

Approximate Completion Date: ___/___/___

Contract Type:
[ ] (01) General Construction
[ ] (02) Heating/Ventilation
[ ] (03) Electrical
[ ] (04) Plumbing
[ ] (05) Other : _____

Phone: (518) 457-5589 Fax: (518) 485-1870
W. Averell Harriman State Office Campus, Bldg. 12, Room 130, Albany, NY 12240

IMPORTANT NOTICE

FOR

CONTRACTORS & CONTRACTING AGENCIES

Social Security Numbers on Certified Payrolls

The Department of Labor is cognizant of the concerns of the potential for misuse or inadvertent disclosure of social security numbers. Identity theft is a growing problem and we are sympathetic to contractors' concerns with regard to inclusion of this information on payrolls if another identifier will suffice.

For these reasons, ***the substitution of the use of the last four digits of the social security number on certified payrolls submitted to contracting agencies on public work projects is now acceptable to the Department of Labor.***

NOTE: This change does not affect the Department's ability to request and receive the entire social security number from employers during the course of its public work / prevailing wage investigations.

To all State Departments, Agency Heads and Public Benefit Corporations
IMPORTANT NOTICE REGARDING PUBLIC WORK ENFORCEMENT FUND

Budget Policy & Reporting Manual

B-610

Public Work Enforcement Fund

effective date December 7, 2005

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1. Purpose and Scope:

This Item describes the Public Work Enforcement Fund (the Fund, PWEF) and its relevance to State agencies and public benefit corporations engaged in construction or reconstruction contracts, maintenance and repair, and announces the recently-enacted increase to the percentage of the dollar value of such contracts that must be deposited into the Fund. This item also describes the roles of the following entities with respect to the Fund:

- New York State Department of Labor (DOL),
- The Office of the State of Comptroller (OSC), and
- State agencies and public benefit corporations.

2. Background and Statutory References:

DOL uses the Fund to enforce the State's Labor Law as it relates to contracts for construction or reconstruction, maintenance and repair, as defined in subdivision two of Section 220 of the Labor Law. State agencies and public benefit corporations participating in such contracts are required to make payments to the Fund.

Chapter 511 of the Laws of 1995 (as amended by Chapter 513 of the Laws of 1997, Chapter 655 of the Laws of 1999, Chapter 376 of the Laws of 2003 and Chapter 407 of the Laws of 2005) established the Fund.

3. Procedures and Agency Responsibilities:

The Fund is supported by transfers and deposits based on the value of contracts for construction and reconstruction, maintenance and repair, as defined in subdivision two of Section 220 of the Labor Law, into which all State agencies and public benefit corporations enter.

Chapter 407 of the Laws of 2005 increased the amount required to be provided to this fund to .10 of one-percent of the total cost of each such contract, to be calculated at the time agencies or public benefit corporations enter into a new contract or if a contract is amended. The provisions of this bill became effective August 2, 2005.

To all State Departments, Agency Heads and Public Benefit Corporations
IMPORTANT NOTICE REGARDING PUBLIC WORK ENFORCEMENT FUND

OSC will report to DOL on all construction-related ("D") contracts approved during the month, including contract amendments, and then DOL will bill agencies the appropriate assessment monthly. An agency may then make a determination if any of the billed contracts are exempt and so note on the bill submitted back to DOL. For any instance where an agency is unsure if a contract is or is not exempt, they can call the Bureau of Public Work at the number noted below for a determination. Payment by check or journal voucher is due to DOL within thirty days from the date of the billing. DOL will verify the amounts and forward them to OSC for processing.

For those contracts which are not approved or administered by the Comptroller, monthly reports and payments for deposit into the Public Work Enforcement Fund must be provided to the Administrative Finance Bureau at the DOL within 30 days of the end of each month or on a payment schedule mutually agreed upon with DOL.

Reports should contain the following information:

- Name and billing address of State agency or public benefit corporation;
- State agency or public benefit corporation contact and phone number;
- Name and address of contractor receiving the award;
- Contract number and effective dates;
- Contract amount and PWEF assessment charge (if contract amount has been amended, reflect increase or decrease to original contract and the adjustment in the PWEF charge); and
- Brief description of the work to be performed under each contract.

Checks and Journal Vouchers, payable to the "New York State Department of Labor" should be sent to:

Department of Labor
Administrative Finance Bureau-PWEF Unit
Building 12, Room 464
State Office Campus
Albany, NY 12240

Any questions regarding billing should be directed to NYSDOL's Administrative Finance Bureau-PWEF Unit at (518) 457-3624 and any questions regarding Public Work Contracts should be directed to the Bureau of Public Work at (518) 457-5589.

Construction Industry
Fair Play Act

Required Posting For Labor Law
Article 25-B § 861-d

Construction industry employers must post the "Construction Industry Fair Play Act" notice in a prominent and accessible place on the job site.

Failure to post the notice can result in penalties of up to $1,500 for a first offense and up to $5,000 for a second offense.

The posting is included as part of this wage schedule. Additional copies may be obtained from the NYS DOL website, www.labor.ny.gov.

If you have any questions concerning the Fair Play Act, please call the State Labor Department toll-free at 1-866-435-1499 or email us at: dol.misclassified@labor.state.ny.us .

New York State Department of Labor
Required Notice under Article 25-B of the Labor Law

ATTENTION ALL EMPLOYEES, CONTRACTORS AND SUBCONTRACTORS:
YOU ARE COVERED BY THE
CONSTRUCTION INDUSTRY FAIR PLAY ACT

The law says that you are an employee unless:

- You are free from direction and control in performing your job AND
- You perform work that is not part of the usual work done by the business that hired you AND
- You have an independently established business

Your employer cannot consider you to be an independent contractor unless all three of these facts apply to your work.

IT IS AGAINST THE LAW FOR AN EMPLOYER TO MISCLASSIFY EMPLOYEES AS INDEPENDENT CONTRACTORS OR PAY EMPLOYEES OFF-THE-BOOKS.

Employee rights. If you are an employee:

- You are entitled to state and federal worker protections such as
  - unemployment benefits, if unemployed through no fault of your own, able to work, and otherwise qualified
  - workers' compensation benefits for on-the-job injuries
  - payment for wages earned, minimum wage, and overtime (under certain conditions)
  - prevailing wages on public work projects
  - the provisions of the National Labor Relations Act and
  - a safe work environment
- It is a violation of this law for employers to retaliate against anyone who asserts their rights under the law. Retaliation subjects an employer to civil penalties, a private lawsuit or both.

Independent Contractors: If you are an independent contractor:

- You must pay all taxes required by New York State and Federal Law.

Penalties for paying off-the-books or improperly treating employees as independent contractors:

- **Civil Penalty** — First Offense: up to $2,500 per employee. Subsequent Offense(s): up to $5,000 per employee.
- **Criminal Penalty** — First Offense: Misdemeanor - up to 30 days in jail, up to a $25,000 fine and debarment from performing Public Work for up to one year. Subsequent Offense(s): Misdemeanor - up to 60 days in jail, up to a $50,000 fine and debarment from performing Public Work for up to 5 years.

If you have questions about your employment status or believe that your employer may have violated your rights and you want to file a complaint, call the Department of Labor at 1(866)435-1499 or send an email to dol.misclassified@labor.state.ny.us. All complaints of fraud and violations are taken seriously and you can remain anonymous.

Employer Name:

IA 999 (09/10)

WORKER NOTIFICATION

(Labor Law §220, paragraph a of subdivision 3-a)

Effective February 24, 2008

This provision is an addition to the existing prevailing wage rate law, Labor Law §220, paragraph a of subdivision 3-a. It requires contractors and subcontractors to provide written notice to all laborers, workers or mechanics of the *prevailing wage rate* for their particular job classification *on each pay stub**. It also requires contractors and subcontractors to *post a notice* at the beginning of the performance of every public work contract *on each job site* that includes the telephone number and address for the Department of Labor and a statement informing laborers, workers or mechanics of their right to contact the Department of Labor if he/she is not receiving the proper prevailing rate of wages and/or supplements for his/her particular job classification. The required notification will be provided with each wage schedule, may be downloaded from our website *www.labor.state.ny.us* or made available upon request by contacting the Bureau of Public Work at 518-457-5589.

* In the event that the required information will not fit on the pay stub, an accompanying sheet or attachment of the information will suffice.

(11.11)

New York State Department of Labor
Bureau of Public Work

Attention Employees

THIS IS A:

PUBLIC WORK PROJECT

If you are employed on this project as a **worker, laborer, or mechanic** you are entitled to receive the **prevailing wage and supplements rate** for the classification at which you are working.

Chapter 629 of the Labor Laws of 2007:

These wages are set by law and must be posted at the work site. They can also be found at: www.labor.ny.gov

If you feel that you have not received proper wages or benefits, please call our nearest office.*

Albany	(518) 457-2744	Patchogue	(631) 687-4882
Binghamton	(607) 721-8005	Rochester	(585) 258-4505
Buffalo	(716) 847-7159	Syracuse	(315) 428-4056
Garden City	(516) 228-3915	Utica	(315) 793-2314
New York City	(212) 775-3568	White Plains	(914) 997-9507
Newburgh	(845) 568-5287		

* For New York City government agency construction projects, please contact the Office of the NYC Comptroller at (212) 669-4443, or www.comptroller.nyc.gov – click on Bureau of Labor Law.

Contractor Name: _____

Project Location: _____

OSHA 10-hour Construction

Safety and Health Course – S1537-A

Effective July 18, 2008

This provision is an addition to the existing prevailing wage rate law, Labor Law §220, section 220-h. It requires that on all public work projects of at least $250,000.00, all laborers, workers and mechanics working on the site, be certified as having successfully completed the OSHA 10-hour construction safety and health course. It further requires that the advertised bids and contracts for every public work contract of at least $250,000.00, contain a provision of this requirement.

NOTE: ***The OSHA 10 Legislation only applies to workers on a public work project that are required, under Article 8, to receive the prevailing wage.***

Where to find OSHA 10-hour Construction Course

1. NYS Department of Labor website for scheduled outreach training at:
   www.labor.state.ny.us/workerprotection/safetyhealth/DOSH_ONSITE_CONSULTATION.shtm

2. OSHA Training Institute Education Centers:

   Rochester Institute of Technology OSHA Education Center
   Rochester, NY
   Donna Winter
   Fax (585) 475-6292
   e-mail: dlwtpo@rit.edu
   (866) 385-7470 Ext. 2919
   www.rit.edu/~outreach/course.php3?CourseID=54

   Atlantic OSHA Training Center
   UMDNJ – School of Public Health
   Piscataway, NJ
   Janet Crooks
   Fax (732) 235-9460
   e-mail: crooksje@umdnj.edu
   (732) 235-9455
   https://ophp.umdnj.edu/wconnect/ShowSchedule.awp?~~GROUP~AOTCON~10~

   Atlantic OSHA Training Center
   University at Buffalo
   Buffalo, New York
   Joe Syracuse
   Fax (716) 829-2806
   e-mail:mailto:japs@buffalo.edu
   (716) 829-2125
   http://www.smbs.buffalo.edu/CENTERS/trc/schedule_OSHA.php

   Keene State College
   Manchester, NH
   Leslie Singleton
   e-mail: lsingletin@keenc.cdu
   (800) 449-6742
   www.keene.edu/courses/print/courses_osha.cfm

3. List of trainers and training schedules for OSHA outreach training at:
   www.OutreachTrainers.org

Requirements for OSHA 10 Compliance

Chapter 282 of the Laws of 2007, codified as Labor Law 220-h took effect on July 18, 2008. The statute provides as follows:

The advertised specifications for every contract for public work of $250,000.00 or more must contain a provision requiring that every worker employed in the performance of a public work contract shall be certified as having completed an OSHA 10 safety training course. The clear intent of this provision is to require that all employees of public work contractors, required to be paid prevailing rates, receive such training "prior to the performing any work on the project."

The Bureau will enforce the statute as follows:

All contractors and sub contractors must attach a copy of proof of completion of the OSHA 10 course to the first certified payroll submitted to the contracting agency and on each succeeding payroll where any new or additional employee is first listed.

Proof of completion may include but is not limited to:

- Copies of bona fide course completion card (*Note: Completion cards do not have an expiration date.*)
- Training roster, attendance record of other documentation from the certified trainer pending the issuance of the card.
- Other valid proof

**A certification by the employer attesting that all employees have completed such a course is not sufficient proof that the course has been completed.

Any questions regarding this statute may be directed to the New York State Department of Labor, Bureau of Public Work at 518-485-5696.

WICKS Reform 2008

(For all contracts advertised or solicited for bid on or after 7/1/08)

- Raises the threshold for public work projects subject to the Wicks Law requiring separate specifications and bidding for the plumbing, heating and electrical work. The total project's threshold would increase from $50,000 to: $3 million in Bronx, Kings, New York, Queens and Richmond counties; $1.5 million in Nassau, Suffolk and Westchester counties; and $500,000 in all other counties.

- For projects below the monetary threshold, bidders must submit a sealed list naming each subcontractor for the plumbing, HVAC and electrical work and the amount to be paid to each. The list may not be changed unless the public owner finds a legitimate construction need, including a change in specifications or costs or use of a Project Labor Agreement (PLA), and must be open to public inspection.

- Allows the state and local agencies and authorities to waive the Wicks Law and use a PLA if it will provide the best work at the lowest possible price. If a PLA is used, all contractors shall participate in apprentice training programs in the trades of work it employs that have been approved by the Department of Labor (DOL) for not less than three years. They shall also have at least one graduate in the last three years and use affirmative efforts to retain minority apprentices. PLA's would be exempt from Wicks, but deemed to be public work subject to prevailing wage enforcement.

- The Commissioner of Labor shall have the power to enforce separate specification requirements on projects, and may issue stop-bid orders against public owners for non-compliance.

- Other new monetary thresholds, and similar sealed bidding for non-Wicks projects, would apply to certain public authorities including municipal housing authorities, NYC Construction Fund, Yonkers Educational Construction Fund, NYC Municipal Water Finance Authority, Buffalo Municipal Water Finance Authority, Westchester County Health Care Association, Nassau County Health Care Corp., Clifton-Fine Health Care Corp., Erie County Medical Center Corp., NYC Solid Waste Management Facilities, and the Dormitory Authority.

- Reduces from 15 to 7 days the period in which contractors must pay subcontractors.

IMPORTANT INFORMATION

Regarding Use of Form PW30R

"Employer Registration for Use of 4 Day / 10 Hour Work Schedule"

To use the '4 Day / 10 Hour Work Schedule':

There MUST be a *Dispensation of Hours (PW30)* in place on the project

AND

You MUST register your intent to work 4 / 10 hour days, by completing the PW30R Form.

REMEMBER...

The '4 Day / 10 Hour Work Schedule' applies ONLY to Job Classifications and Counties listed on the PW30R Form.

Do not write in any additional Classifications or Counties.

(**Please note** : For each Job Classification check the individual wage schedule for specific details regarding their 4/10 hour day posting.)

Instructions for Completing Form PW30R

"Employer Registration for Use of 4 Day / 10 Hour Work Schedule"

Before completing Form PW30R check to be sure ...

- There is a *Dispensation of Hours* in place on the project.
- The 4 Day / 10 Hour Work Schedule applies to the Job Classifications you will be using.
- The 4 Day / 10 Hour Work Schedule applies to the County / Counties where the work will take place.

Instructions (Type or Print legibly):

Contractor Information:

- Enter the Legal Name of the business, FEIN, Street Address, City, State, Zip Code; the Company's Phone and Fax numbers; and the Company's email address (if applicable)
- Enter the Name of a Contact Person for the Company along with their Phone and Fax numbers, and the personal email address (if applicable)

Project Information:

- Enter the Prevailing Rate Case number (PRC#) assigned to this project
- Enter the Project Name / Type (i.e. Smithtown CSD – Replacement of HS Roof)
- Enter the Exact Location of Project (i.e. Smithtown HS, 143 County Route #2, Smithtown,NY; Bldgs. 1 & 2)
- If you are a Subcontractor, enter the name of the Prime Contractor for which you work
- On the Checklist of Job Classifications -
  - Go to pages 2 and 3 of the form
  - Place a checkmark in the box to the right of the Job Classification you are choosing
  - Mark all Job Classifications that apply

    ****Do not write in any additional Classifications or Counties.****

Requestor Information:

- Enter the name of the person submitting the registration, their title with the company , and the date the registration is filled out

Return Completed Form:

- **Mail** the completed PW30R form (3 pages) to: NYSDOL Bureau of Public Work, SOBC – Bldg.12 – Rm.130, Albany, NY 12240 *-OR -*
- **Fax** the completed PW30R form (3 pages) to: NYSDOL Bureau of Public Work at (518)485-1870

New York State Department of Labor
Bureau of Public Work
W. Averell Harriman State Office Campus
Building 12 - Room 130
Albany, New York 12240
Phone - (518) 457-5589 Fax - (518) 485-1870

Employer Registration for Use of 4 Day / 10 Hour Work Schedule

Before completing Form PW30R check to be sure ...
There is a *Dispensation of Hours* in place on the project.
The 4 Day / 10 Hour Work Schedule applies to the Job Classifications you will be using.
The 4 Day / 10 Hour Work Schedule applies to the County / Counties where the work will take place.

Please Type or Print the Requested Information

When completed ...
Mail to NYSDOL Bureau of Public Work, SOBC, Bldg. 12, Rm.130, Albany, NY 12240
-or-
Fax to NYSDOL Bureau of Public Work at (518) 485-1870

Contractor Information

Company Name: _____ FEIN: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Phone Number _____ Fax Number: _____ Email Address: _____

Contact Person: _____

Phone No: _____ Fax No: _____ Email: _____

Project Information

Project PRC#: _____ Project Name/Type: _____

Exact Location
of Project: _____ County: _____

(If you are Subcontractor)
Prime Contractor Name: _____

Job Classification(s) to Work 4/10 Schedule: *(Choose all that apply on Job Classification Checklist - Pages 3-6)*
**** Do not write in any additional Classifications or Counties****

Requestor Information

Name: _____

Title: _____ Date : _____

1. Albany County
2. Allegany County
3. Bronx County
4. Broome County
5. Cattaraugus County
6. Cayuga County
7. Chautauqua County
8. Chemung County
9. Chenango County
10. Clinton County
11. Columbia County
12. Cortland County
13. Delaware County
14. Dutchess County
15. Erie County
16. Essex County
17. Franklin County
18. Fulton county
19. Genesee County
20. Greene County
21. Hamilton County
22. Herkimer County
23. Jefferson County
24. Kings County (Brooklyn)
25. Lewis County
26. Livingston County
27. Madison County
28. Monroe County
29. Montgomery County
30. Nassau County
31. New York County (Manhattan)
32. Niagara County
33. Oneida County
34. Onondaga County
35. Ontario County
36. Orange County
37. Orleans County
38. Oswego County
39. Otsego County
40. Putnam County
41. Queens County
42. Rensselaer County
43. Richmond County (Staten Island)
44. Rockland County
45. Saint Lawrence County
46. Saratoga County
47. Schenectady County
48. Schoharie County
49. Schuyler County
50. Seneca County
51. Steuben County
52. Suffolk County
53. Sullivan County
54. Tioga County
55. Tompkins County
56. Ulster County
57. Warren county
58. Washington County
59. Wayne County
60. Westchester County
61. Wyoming County
62. Yates County

Job Classification Checklist

(Place a checkmark by all classifications that will be using the 4/10 schedule)

**** Do not write in any additional Classifications or Counties****

Carpenter-Building	276B-All	7	2,5	
Carpenter-Building	276B-Cat	15	5	
Carpenter - Building	276-B-DW-LIV	26, 28, 35, 59	61	
Carpenter-Building	276B-Gen	19, 32, 37	61	
Carpenter-Floor Layers	276B-FL-Liv	26, 28, 35, 59	61	
Carpenter-Heavy&Highway	276HH-All	2, 5, 7		
Carpenter-Heavy&Highway	276HH-Erie	15		
Carpenter-Heavy&Highway	276HH- Gen	19, 32, 37, 61		
Carpenter-Heavy&Highway	276HH-Liv	26, 28, 35, 59		
Carpenter-Residential	276R-All	7	2, 5	
Carpenter - Building	277B-Bro	4, 54		
Carpenter - Building	277B-CAY	6, 50, 62		
Carpenter - Building	277B-CS	8, 12, 49, 51, 55	2	
Carpenter - Building	277 JLS	23, 25, 45		
Carpenter - Building	277 omh	22, 27, 33		
Carpenter - Building	277 On	34		
Carpenter - Building	277 Os	38		
Carpenter - Building	277CDO Bldg	9, 13, 39		
Carpenter - Heavy&Highway	277CDO HH	9, 13, 39		
Carpenter - Heavy&Highway	277HH-BRO	4, 6, 8, 12, 49, 50, 51, 54, 55, 62		
Carpenter - Heavy/Highway	277 oneida	22, 23, 25, 27, 33, 34, 38, 45		
Carpenter - Building	291B-Alb	1, 18, 20, 29, 42, 47, 48		
Carpenter - Building	291B-Cli	10, 16, 17		
Carpenter - Building	291B-Ham	21, 57, 58		
Carpenter - Building	291B-Sar	46		
Carpenter - Heavy&Highway	291HH-Alb	1, 10, 16, 17,18, 20, 21, 29, 42, 46, 47, 48, 57, 58		
Electrician	25m	30, 52		
Electrician-Teledata Cable Splicer	43	12, 22, 27, 33, 38	6, 9, 34, 39, 55, 59	

Job Classification Checklist

(Place a checkmark by all classifications that will be using the 4/10 schedule)

**** Do not write in any additional Classifications or Counties****

[illegible]	[illegible]	[illegible] Counties	[illegible] Counties	[illegible]
Electrician	86	26, 28	19, 35, 37, 59, 61	☐
Electrician	840Teledata and 840 Z1	62	6, 34, 35, 50, 59	☐
Electrician	910	10, 16, 17, 23, 25, 45		☐
Electrician Lineman	1049Line/Gas	30, 41, 52		☐
Electrician Lineman	1249a	1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 32, 33, 34, 35, 36, 37, 38, 39, 40, 42, 44, 46, 47, 48, 49, 50, 45, 51, 53, 54, 55, 56, 57, 58, 59, 61, 62		☐
Electrical Lineman	1249a West	60		☐
Electrical Lineman	1249a-LT	1, 2, 4, 5, 6, 7, 8, 9, 10, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 32, 33, 34, 35, 37, 38, 39, 42, 46, 47, 48, 49, 50, 45, 51, 53, 54, 55, 57, 58, 59, 61, 62		☐
Electrical Lineman	1249aREG8LT	11, 14, 36, 40, 44, 56		☐
Electrical Lineman	1249aWestLT	60		☐
Elevator Constructor	138	11, 14, 20, 36, 40, 53, 56	13, 44, 60	☐
Elevator Constructor	14	2, 5, 7, 15, 19, 32, 37, 61		☐
Elevator Constructor	27	8, 26, 28, 35, 49, 50, 51, 59, 62		☐
Elevator Constructor	35	1, 10, 16, 18, 21, 22, 29, 39, 42, 46, 47, 48, 57, 58		☐
Elevator Constructor	62.1	4, 6, 9, 12, 23, 25, 27, 33, 34, 38, 45, 54, 55	13	☐
Glazier	201	1, 10, 11, 16, 17, 18, 20, 21, 29, 42, 46, 47, 48, 57, 58		☐
Glazier	660r	2, 5, 7, 15, 19, 32, 37, 61		☐
Glazier	660	2, 5, 7, 15, 19, 32, 37, 61		☐
Glazier	677.1	23, 25, 26, 28, 35, 45, 50, 59, 62		☐
Glazier	677Z-2	6, 12, 22, 27, 33, 34, 38		☐
Glazier	677z3	4, 8, 9, 13, 39, 49, 51, 54, 55		☐
Glazier	677r.2	6, 12, 22, 27, 33, 34, 38		☐
Insulator - Heat & Frost	30-Syracuse	4, 6, 8, 9, 12, 22, 23, 25, 27, 33, 34, 38, 39, 49, 50, 45, 54, 55		☐
Laborers - Building	322-2H	17, 23, 25, 45		☐
Laborers - Building	785(7)	4	9, 13, 54	☐

Job Classification Checklist

(Place a checkmark by all classifications that will be using the 4/10 schedule)

**** Do not write in any additional Classifications or Counties****

Job Classification	Trade	Schedule	Partial Counties	
Laborers - Building	785B-CS	8, 51	49	☐
Laborers- Heavy & Highway	322/2h	17, 23, 25, 45		☐
Laborers- Heavy & Highway	7-785b	12, 55	49, 54	☐
Laborers Heavy & Highway	785(7)	4	9, 13, 54	☐
Laborer - Heavy & Highway	785HH-CS	8, 51	49	☐
Laborer - Building	621b	2, 7	5	☐
Laborer - Residential	621r	2, 7	5	☐
Mason-Building	3b-Co-Z2	8, 49, 51	2	☐
Mason-Building	3B-Z1	19, 26, 28, 35, 50, 59, 61, 62		☐
Mason-Building-Residential	3B-Z1R	19, 26, 28, 35, 50, 59, 61, 62		☐
Mason-Building	3B-Bing-Z2	4, 9, 13, 39, 54		☐
Mason-Building	3B-Ith-Z2	12, 55		☐
Mason-Building	3B-Jam-Z2	7	2, 5	☐
Mason-Building-Residential	3B-Jam-Z2R	2, 4, 8, 7, 9, 12, 39, 13, 49, 51, 54, 55	5	☐
Mason-Building	3B-Z3	15, 32, 37	5	☐
Mason-Building-Residential	3B-Z3R	15, 32, 37	5	☐
Mason-Heavy Highway	3h	2, 4, 8, 7, 9, 12, 13, 19, 26, 28, 35, 37, 39, 49, 50, 51, 54, 55, 59, 61, 62	5, 15, 32	☐
Mason-Tile Finisher	3TF-Z1	19, 26, 28, 35, 50, 59, 61, 62		☐
Mason-Tile Finisher	3TF-Z2	2, 4, 8, 7, 9, 12, 13, 39, 49, 51, 54, 55	5	☐
Mason-Tile Finisher	3TF-Z3	15, 32, 37	5	☐
Mason-Tile Finisher	3TF-Z1R	19, 26, 28, 35, 50, 59, 61, 62		☐
Mason-Tile Finisher	3TF-Z2R	2, 4, 7, 9, 12, 13, 39, 49, 51, 54, 55	5	☐
Mason-Tile Finisher	3TF-Z3R	15, 32, 37	5	☐
Mason-Tile Setter	3TS-Z1	19, 26, 28, 35, 50, 59, 61, 62		☐

Job Classification Checklist

(Place a checkmark by all classifications that will be using the 4/10 schedule)

**** Do not write in any additional Classifications or Counties****

Job Classification	Trade	Effective Counties	Federal Counties	☐
Mason-Tile Setter Residential	3TS-Z2R	2, 4, 7, 8, 9, 12, 13, 39, 49, 51, 54, 55	5	☐
Mason-Tile Setter Residential	3TS-Z3R	15, 32, 37	5	☐
Mason - Building/Heavy&Highway	780	3, 24, 30, 31, 41, 43, 52		☐
Operating Engineer - Heavy/Highway	137H/H	40, 60	14	☐
Operating Engineer - Heavy& Highway	832H	2, 8, 26, 28, 35, 49, 51, 59, 62	19	☐
Painter	150	28, 59, 62	26, 35	☐
Painter	178 B	4, 9, 54		☐
Painter	178 E	8, 49	51	☐
Painter	178 I	12, 55		☐
Painter	178 O	13, 39		☐
Painter	31	6, 22, 27, 33, 34, 50	25, 35, 38	☐
Painter	38.O		38	☐
Painter	38.W	23, 45	25	☐
Painter	4-Buf,Nia,Olean	2, 15, 19, 32, 37, 61	5, 7, 26, 51	☐
Painter	4-Jamestown		5, 7	☐
Sheetmetal Worker	46	26, 28, 35, 50, 59, 62		☐
Sheetmetal Worker	46r	26, 28, 35, 50, 59, 62		☐
Teamsters-Heavy&Highway	294h/h	1, 11, 18, 20, 29, 42, 46, 47, 48, 58	57	☐
Teamsters-Heavy&Highway	317bhh	6, 12, 50, 51, 55, 62	2	☐
Teamsters-Building/Heavy&Highway	456	40, 60		☐
				☐
				☐
				☐

Introduction to the Prevailing Rate Schedule

Information About Prevailing Rate Schedule

This information is provided to assist you in the interpretation of particular requirements for each classification of worker contained in the attached Schedule of Prevailing Rates.

Classification

It is the duty of the Commissioner of Labor to make the proper classification of workers taking into account whether the work is heavy and highway, building, sewer and water, tunnel work, or residential, and to make a determination of wages and supplements to be paid or provided. It is the responsibility of the public work contractor to use the proper rate. If there is a question on the proper classification to be used, please call the district office located nearest the project. District office locations and phone numbers are listed below.

Prevailing Wage Schedules are issued separately for "General Construction Projects" and "Residential Construction Projects" on a county-by-county basis.

General Construction Rates apply to projects such as: Buildings, Heavy & Highway, and Tunnel and Water & Sewer rates.

Residential Construction Rates generally apply to construction, reconstruction, repair, alteration, or demolition of one family, two family, row housing, or rental type units intended for residential use.

Some rates listed in the Residential Construction Rate Schedule have a very limited applicability listed along with the rate. Rates for occupations or locations not shown on the residential schedule must be obtained from the General Construction Rate Schedule. Please contact the local Bureau of Public Work office before using Residential Rate Schedules, to ensure that the project meets the required criteria.

Paid Holidays

Paid Holidays are days for which an eligible employee receives a regular day's pay, but is not required to perform work. If an employee works on a day listed as a paid holiday, this remuneration is in addition to payment of the required prevailing rate for the work actually performed.

Overtime

At a minimum, all work performed on a public work project in excess of eight hours in any one day or more than five days in any workweek is overtime. However, the specific overtime requirements for each trade or occupation on a public work project may differ. Specific overtime requirements for each trade or occupation are contained in the prevailing rate schedules.

Overtime holiday pay is the premium pay that is required for work performed on specified holidays. It is only required where the employee actually performs work on such holidays.

The applicable holidays are listed under HOLIDAYS: OVERTIME. The required rate of pay for these covered holidays can be found in the OVERTIME PAY section listings for each classification.

Supplemental Benefits

Particular attention should be given to the supplemental benefit requirements. In most cases the payment or provision of supplements is for each hour worked (noted in the schedule as 'Per hour worked'). Some classifications require the payment or provision of supplements for each hour paid (noted in the schedule as 'Per hour paid'), which require supplements to be paid or provided at a premium rate for premium hours worked. Some classifications may also require the payment or provision of supplements for paid holidays on which no work is performed.

Effective Dates

When you review the schedule for a particular occupation, your attention should be directed to the dates above the column of rates. These are the dates for which a given set of rates is effective. The rate listed is valid until the next effective rate change or until the new annual determination which takes effect on July 1 of each year. All contractors and subcontractors are required to pay the current prevailing rates of wages and supplements. If you have any questions please contact the Bureau of Public Work or visit the New York State Department of Labor website (www.labor.state.ny.us) for current wage rate information.

Apprentice Training Ratios

The following are the allowable ratios of registered Apprentices to Journey-workers.

For example, the ratio 1:1,1:3 indicates the allowable initial ratio is one Apprentice to one Journeyworker. The Journeyworker must be in place on the project before an Apprentice is allowed. Then three additional Journeyworkers are needed before a second Apprentice is allowed. The last ratio repeats indefinitely. Therefore, three more Journeyworkers must be present before a third Apprentice can be hired, and so on.

Please call Apprentice Training Central Office at (518) 457-6820 if you have any questions.

Title (Trade)	Ratio
Boilermaker (Construction)	1:1,1:4
Boilermaker (Shop)	1:1,1:3
Carpenter (Bldg.,H&H, Pile Driver/Dockbuilder)	1:1,1:4
Carpenter (Residential)	1:1,1:3

Electrical (Outside) Lineman	1:1,1:2
Electrician (Inside)	1:1,1:3
Elevator/Escalator Construction & Modernizer	1:1,1:2
Glazier	1:1,1:3
Insulation & Asbestos Worker	1:1,1:3
Iron Worker	1:1,1:4
Laborer	1:1,1:3
Mason	1:1,1:4
Millwright	1:1,1:4
Op Engineer	1:1,1:5
Painter	1:1,1:3
Plumber & Steamfitter	1:1,1:3
Roofer	1:1,1:2
Sheet Metal Worker	1:1,1:3
Sprinkler Fitter	1:1,1:2

If you have any questions concerning the attached schedule or would like additional information, please contact the nearest BUREAU of PUBLIC WORK District Office or write to:

New York State Department of Labor
Bureau of Public Work
State Office Campus, Bldg. 12
Albany, NY 12240

District Office Locations:	Telephone #	FAX #
Bureau of Public Work - Albany	518-457-2744	518-485-0240
Bureau of Public Work - Binghamton	607-721-8005	607-721-8004
Bureau of Public Work - Buffalo	716-847-7159	716-847-7650
Bureau of Public Work - Garden City	516-228-3915	516-794-3518
Bureau of Public Work - Newburgh	845-568-5287	845-568-5332
Bureau of Public Work - New York City	212-775-3568	212-775-3579
Bureau of Public Work - Patchogue	631-687-4882	631-687-4904
Bureau of Public Work - Rochester	585-258-4505	585-258-4708
Bureau of Public Work - Syracuse	315-428-4056	315-428-4671
Bureau of Public Work - Utica	315-793-2314	315-793-2514
Bureau of Public Work - White Plains	914-997-9507	914-997-9523
Bureau of Public Work - Central Office	518-457-5589	518-485-1870

Nassau County General Construction

Asbestos Worker — 08/01/2014

JOB DESCRIPTION Asbestos Worker **DISTRICT** 4

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk

WAGES

Per Hour:	07/01/2014	12/01/2014 Additional
Abestos Worker Removal & Abatement Only*	$ 47.00	$ 0.50**

NOTE: *On Mechanical Systems that are NOT to be SCRAPPED. To be allocated to (**) To be allocated at a later date

SUPPLEMENTAL BENEFITS

Per Hour:	
Abestos Worker Removal & Abatement Only	$ 4.70

OVERTIME PAY
See (B, B2, *E, J) on OVERTIME PAGE
Hours worked on Saturdays are paid at time and one half only if forty hours have been worked during the week.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 8) on HOLIDAY PAGE

REGISTERED APPRENTICES
Apprentice Removal & Abatement Only:
1000 hour terms at the following percentage of Journeyman's rates.

1st	2nd	3rd	4th
78%	80%	83%	89%

SUPPLEMENTAL BENEFIT

Per Hour:	
Apprentice Removal & Abatement	$ 4.70

4-12a - Removal Only

Boilermaker — 08/01/2014

JOB DESCRIPTION Boilermaker **DISTRICT** 4

ENTIRE COUNTIES
Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Sullivan, Ulster, Westchester

WAGES

Per Hour:	07/01/2014	01/01/2015
Boilermaker	$ 50.45	$ 51.56
Repairs & Renovations	$ 50.45	$ 51.56

SUPPLEMENTAL BENEFITS

Per Hour:	07/01/2014	01/01/2015
Boilermaker	32% of hourly	32% of hourly
Repairs & Renovations	Wage Paid + $25.16	Wage Paid + $25.19

NOTE: "Hourly Wage Paid" shall include any and all premium(s) pay.

Repairs & Renovation Includes replacement of parts and repairs & renovation of existing unit.

OVERTIME PAY
OVERTIME PAY
See (D, O) on OVERTIME PAGE
HOLIDAY
Paid: See (8, 16, 23, 24) on HOLIDAY PAGE

Overtime: See (5, 6, 11, 12, 15, 25) on HOLIDAY PAGE
NOTE: *Employee must work in pay week to receive Holiday Pay.
**Boilermarker gets 4 times the hourly wage rate for working on Labor Day.
***Repairs & Renovation see (B,E,Q) on HOLIDAY PAGE

HOLIDAY

REGISTERED APPRENTICES
Wage per hour:
(1/2) Year Terms at the following pecentage of Boilermaker's Wage

1st	2nd	3rd	4th	5th	6th	7th	8th
65%	65%	70%	75%	80%	85%	90%	95%

Supplemental Benefits Per Hour:

Apprentice(s)	07/01/2014 32% of Hourly Wage Paid plus amount below	01/01/2015 32% of Hourly Wage Paid Plus Amount Below
1st Term	$ 19.25	$ 19.27
2nd Term	20.10	20.11
3rd Term	20.94	20.95
4th Term	21.78	21.80
5th Term	22.62	22.65
6th Term	23.47	23.49
7th Term	24.31	24.33

NOTE: "Hourly Wage Paid" shall include any and all premium(s)

4-5

Carpenter — 08/01/2014

JOB DESCRIPTION Carpenter

DISTRICT 8

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Rockland, Westchester

PARTIAL COUNTIES
Orange: South of but including the following, Waterloo Mills, SlateHill, New Hampton, Goshen, Blooming Grove, Mountainville, east to the Hudson River.
Putnam: South of but including the following, Cold Spring, TompkinsCorner, Mahopac, Croton Falls, east to Connecticut border.
Suffolk: West of Port Jefferson and Patchoque Road to Route 112 tothe Atlantic Ocean.

WAGES

Per hour:	07/01/2014	10/17/2014
Core Drilling:		
Driller	$ 35.71	$ 37.72
Driller Helper	$ 28.60	$ 30.54
Additional Helpers: One (1) year increments. This is not an apprenticeship for Driller:		
Helper 1st year	$ 20.02	$ 20.02
Helper 2nd year	22.88	22.88
Helper 3rd year	25.74	25.74
Helper 4th year	28.60	28.60

Note: Hazardous Waste Pay Differential:
For Level C, an additional 10% above wage rate per hour
For Level B, an additional 10% above wage rate per hour
For Level A, an additional 10% above wage rate per hour
Note: When required to work on water: an additional $ 0.50 per hour.

SUPPLEMENTAL BENEFITS

Per hour paid:	07/01/2014	10/17/2014
Driller and All Helpers	$21.69	$ 21.69

OVERTIME PAY
OVERTIME: See (B,E,K*,P,R**) on OVERTIME PAGE.

HOLIDAY
Paid: See (5,6) on HOLIDAY PAGE.
Overtime: * See (5,6) on HOLIDAY PAGE.
** See (8,10,11,13) on HOLIDAY PAGE.

8-1536-CoreDriller

Carpenter **08/01/2014**

JOB DESCRIPTION Carpenter **DISTRICT** 8

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk, Westchester

WAGES
Per Hour:

	07/01/2014
Timberman	$ 44.33

SUPPLEMENTAL BENEFITS
Per Hour:

	07/01/2014
	$ 45.36

OVERTIME PAY
See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (18,19) on HOLIDAY PAGE.

Paid: for 1st & 2nd yr.
Apprentices See (5,6,11,13,16,18,19,25)

Overtime: See (5,6,11,13,16,18,19,25) on HOLIDAY PAGE.

REGISTERED APPRENTICES
Wages per hour:
(1) year terms:

1st	2nd	3rd	4th
$17.73	$22.16	$28.81	$35.46

Supplemental benefits per hour:
$ 30.86

8-1556 Tm

Carpenter **08/01/2014**

JOB DESCRIPTION Carpenter **DISTRICT** 8

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Putnam, Queens, Richmond, Rockland, Suffolk, Westchester

WAGES
Per hour: 07/01/2014

Building
Millwright $ 48.44

SUPPLEMENTAL BENEFITS
Per hour paid:

Millwright $ 50.49

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (18,19)* on HOLIDAY PAGE.

Overtime See (5,6,8,11,13,18,19,25) on HOLIDAY PAGE.

* must show up to work

REGISTERED APPRENTICES

Wages per hour is Pecentage of Journeyworkers wage:

(1) year terms:

1st.	2nd.	3rd.	4th.
$26.64	$31.49	$36.33	$46.02

Supplemental benefits per hour paid:

(1) year terms:

1st.	2nd.	3rd.	4th.
$32.81	$36.15	$40.63	$46.21

8-740.1

Carpenter 08/01/2014

JOB DESCRIPTION Carpenter **DISTRICT** 8

ENTIRE COUNTIES
Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Westchester

WAGES
Per Hour: 07/01/2014

Marine Construction:

Marine Diver	$ 61.30
Marine Tender	43.45

SUPPLEMENTAL BENEFITS
Per Hour Paid:

Journeyman	$ 46.09

OVERTIME PAY
See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (18, 19) on HOLIDAY PAGE
Overtime: See (5, 6, 10, 11, 13, 16, 18, 19) on HOLIDAY PAGE

8-1456MC

Carpenter 08/01/2014

JOB DESCRIPTION Carpenter **DISTRICT** 8

ENTIRE COUNTIES
Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Westchester

WAGES
Per hour: 07/01/2014

Carpet/Resilient Floor Coverer	$ 49.88

INCLUDES HANDLING & INSTALLATION OF ARTIFICIAL TURF AND SIMILAR TURF INDOORS/OUTDOORS.

SUPPLEMENTAL BENEFITS
Per hour paid:

Floor Coverer	$ 44.07

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (18, 19)on HOLIDAY PAGE.

Paid: for 1st & 2nd yr.
Apprentices See (5,6,11,13,16,18,19,25)

Overtime: See (5,6,11,13,16,18,19,25) on HOLIDAY PAGE.

REGISTERED APPRENTICES

Wage per hour is Pecentage of Journeyworkers Wage

(1) year terms:

1st.	2nd.	3rd.	4th.
$19.95	$24.94	$32.42	$39.90

Supplemental benefits per hour:

$ 30.22

8-2287

Carpenter — 08/01/2014

JOB DESCRIPTION Carpenter **DISTRICT** 8

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Putnam, Queens, Richmond, Rockland, Suffolk, Westchester

WAGES
Per hour: 07/01/2014

Piledriver	$ 48.35
Dockbuilder	$ 48.35

SUPPLEMENTAL BENEFITS
Per hour paid:

Journeyworker	$ 46.09

OVERTIME PAY
See (B, E2, O) on OVERTIME PAGE

HOLIDAY
Paid: See (18,19)on HOLIDAY PAGE.

Paid: for 1st & 2nd yr.
Apprentices See (5,6,11,13,16,18,19,25)

Overtime: See (5,6,11,13,16,18,19,25) on HOLIDAY PAGE.

REGISTERED APPRENTICES
Wages per hour
(1)year terms:

1st	2nd	3rd	4th
$19.34	$24.17	$31.43	$38.68

Supplemental benefits per hour:

Apprentices $ 31.23

8-1556 Db

Carpenter — 08/01/2014

JOB DESCRIPTION Carpenter **DISTRICT** 8

ENTIRE COUNTIES
Bronx, Kings, New York, Putnam, Queens, Richmond

PARTIAL COUNTIES
Nassau: That portion of the county that lies west of Seaford Creekand south of the Southern State Parkway.

WAGES
Per hour: 07/01/2014

Show Exibit/
Carpenter $ 48.38

SUPPLEMENTAL BENEFITS
Per hour paid:

Show Exibit/

Carpenter $ 42.67

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (18,19) on HOLIDAY PAGE.

Paid:for 1st & 2nd yr.
Apprentices See (5,6,11,13,16,18,19,25)

Overtime: See (5,6,11,13,16,18,19,25) on HOLIDAY PAGE.

REGISTERED APPRENTICES
Wages per hour is Pecentage of Journeyworkers Wage

(1) year terms:

1st.	2nd.	3rd.	4th.
$19.35	$24.19	$31.45	$38.70

Supplemental benefits per hour:
Apprentices $ 29.52

8-EXHIB

Carpenter - Building 08/01/2014

JOB DESCRIPTION Carpenter - Building **DISTRICT** 8

ENTIRE COUNTIES
Bronx, Kings, New York, Queens, Richmond

PARTIAL COUNTIES
Nassau: Work preformed south of the Southern State Parkway and west of the Seaford Creek.

WAGES
Per hour: 07/01/2014

Building:
Carpenter $49.88

SUPPLEMENTAL BENEFITS
Per hour paid:

Building:
Carpenter $ 44.07

OVERTIME PAY
See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (18,19) on HOLIDAY PAGE.

Paid: for 1st & 2nd yr.
Apprentices See (5,6,11,13,16,18,19,25)

Overtime: See (5,6,11,13,16,18,19,25) on HOLIDAY PAGE.

REGISTERED APPRENTICES
Wage per hour:

(1) year terms:

	1st	2nd	3rd	4th
Building	$19.95	$24.94	$32.42	$39.90

Supplemental benefits per hour for all Apprentices:

Building $ 30.22

8-NYC Bldg.

Carpenter - Building / Heavy&Highway 08/01/2014

JOB DESCRIPTION Carpenter - Building / Heavy&Highway **DISTRICT** 4

ENTIRE COUNTIES
Suffolk

PARTIAL COUNTIES
Nassau: Work performed "North of Southern State Parkway and East of Seaford Creek"

WAGES
Per Hour: 07/01/2014

Carpenter (Building)	$ 46.72
Carpenter (Heavy Highway)	$ 46.72

"NOTE" ADD 15% to straight time hourly wage for NEW YORK STATE D.O.T. and other GOVERMENTAL MANDATED Off-Shift Work.

SUPPLEMENTAL BENEFITS
Per Hour:

Both Carpenter Categories	$ 29.49

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 16, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
One(1) Year Terms at the following:
Per Hour:

1st	2nd	3rd	4th
$ 18.14	$ 23.98	$ 27.88	$ 31.78

Supplemental Benefits
Per Hour:

All Terms: $ 16.00

4-Reg.Council Nass/Suff

Electrician — 08/01/2014

JOB DESCRIPTION Electrician **DISTRICT** 4

ENTIRE COUNTIES
Nassau, Suffolk

WAGES
Per Hour: 07/01/2014

Electrician Pump & Tank	$ 40.05

SUPPLEMENTAL BENEFITS
Per Hour:

Electrician Pump & Tank	65.25% of *Wage Paid

*Wage Paid includes any and all Premiums

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 16, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES

1 Year Terms at the Following:

Per Hour:

1st Term	$ 14.02
2nd Term	$ 16.02
3rd Term	$ 18.02
4th Term	$ 20.03
5th Term	$ 26.03
6th Term	$ 30.04

SUPPLEMENTAL BENEFITS

Per Hour:

All Terms	65.25% of *Wage Paid

*Wage Paid includes any and all Premiums

4-25 Pump & Tank

Electrician — 08/01/2014

JOB DESCRIPTION Electrician

DISTRICT 4

ENTIRE COUNTIES
Nassau, Suffolk

WAGES
Per Hour:

	07/01/2014	04/25/2015
Electrician/Wireman	$ 49.20	$ 50.45
HVAC Controls	49.20	50.45
Fire Alarms	49.20	50.45

SUPPLEMENTAL BENEFITS
Per Hour:

	07/01/2014	04/25/2015
Electrcian/Wireman (all catagories)	16.0% of Hourly Wage Paid + $22.14	16.0% of Hourly Wage Paid + $23.08

NOTE: "Hourly Wage Paid" shall include any and all premium[s]

OVERTIME PAY
See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 15, 16, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
One(1) Year Terms at the following Percetage of Journeyman(s) Wage:

Apprentices with start dates PRIOR TO 10/02/2010:

4th	5th	6th
50%	60%	70%

Apprentices with start dates AFTER 10/02/2010:

1st	2nd	3rd	4th	5th	6th
35%	40%	45%	55%	65%	75%

Supplemental Benefits Per Hour:

	Apprentices Hired Prior to 10/02/2010		Apprentices Hired After 10/02/2010	
	07/01/2014	04/26/2015	07/01/2014	04/26/2015
1st	0% + $0.00	0% + $0.00	3% + $2.56	3% + $2.72
2nd	0% + $0.00	0% + $0.00	8% + $3.88	8% + $4.09

3rd	0% + $0.00	0% + $0.00	9% + $4.69	9% + $4.96
4th	16% + $11.07	16% + $11.53	10% + $6.66	10% + $7.00
5th	16% + $13.28	16% + $13.84	13% + $10.21	13% + $10.70
6th	16% + $15.50	16% + $16.15	14% + $16.45	14% + $17.14

NOTE: Percentages are on "Hourly Wage Paid"
NOTE: "Hourly Wage Paid" shall include any and all premium(s).

4-25

Electrician **08/01/2014**

JOB DESCRIPTION Electrician **DISTRICT** 4

ENTIRE COUNTIES
Nassau, Suffolk

WAGES

Per Hour:	07/01/2014	04/25/2015
Telephone and Intergrated Tele-Data System Electrician	$ 36.38	$ 36.58

This rate classification applies to ALL Voice, Data & Video work.: Excluding Fire Alarm Systems and Energy Managment Systems (HVAC Controls), in those cases the regular Electrician rate applies. To ensure proper use of this rate please call Nassau Offices at (516)228-3915 or Suffolk Offices at (631)687-4882.

SUPPLEMENTAL BENEFITS
Per Hour:

Tele-Data Electrican	16% of Hourly Wage Paid + $16.63	16% Of Hourly Wage Paid + $16.68

NOTE: "Hourly Wage Paid" shall include any and all premium(s) pay

OVERTIME PAY
See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 15, 16, 25) on HOLIDAY PAGE

4-25tela

Electrician **08/01/2014**

JOB DESCRIPTION Electrician **DISTRICT** 4

ENTIRE COUNTIES
Nassau, Suffolk

WAGES

Per Hour:	07/01/2014
Tree Trimmer/ Line Clearance Specialist	$ 30.09
Ground Man	$ 18.05

These rates apply to all tree trimming/removal contracts including but not limited to "Electrical Line Clearance"/"Long Island Railroad Right of Ways".

All tree removal for heavy highway or building construction contracts MUST use Heavy Highway Laborer and Operating Engineer classifications.

SUPPLEMENTAL BENEFITS
Per Hour: 07/01/2014

Tree Trimmer/ Line Clearance Specialist Ground Man	19.25% of Hourly Wage Paid + $ 8.60

NOTE: "Hourly Wage Paid" shall include any and all premium(s) paid

OVERTIME PAY
See (B, E, P, S) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6, 8, 16, 23, 24, 25, 26) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 16, 23, 24, 25, 26) on HOLIDAY PAGE

4-1049/Tree

Electrician 08/01/2014

JOB DESCRIPTION Electrician

DISTRICT 4

ENTIRE COUNTIES
Nassau, Suffolk

WAGES
Per Hour:

	07/01/2014	04/25/2015
Electrician Electrical Maintenance	$ 40.70	$ 41.45

"PLEASE NOTE"
Applicable to "EXISTING ELECTRICAL SYSTEMS" including, but not limited to TRAFFIC SIGNALS & STREET LIGHTING. Not used for addons.

Four (4), ten (10) hour days may be worked at straight time during a week, Monday thru Thursday, with one-half (1/2) hour allowed for a lunch period.

NOTE - In order to use the '4 Day/10 Hour Work Schedule,' you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30R; additionally, there must be a dispensation of hours in place on the project.

SUPPLEMENTAL BENEFITS
Per Hour:

Electrician	12% of Hourly Wage Paid + $ 16.07	12% of Hourly Wage Paid + $ 16.46

NOTE: "Hourly Wage Paid" shall include any and all premium(s) pay

OVERTIME PAY
See (B, E2, K, P) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 15, 16, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
One(1) Year Term(s) at the following Percentage of Journeyman(s) Wage:

1st	2nd	3rd	4th	5th	6th
40%	50%	60%	70%	80%	90%

Supplemental Benefits:

	Apprentices Hired Prior to 04/26/2014		Apprentices Hired After 04/26/2014	
	07/01/2014	04/25/2015	07/01/2014	04/25/2015
1st	12% + $9.93	12% + $9.93	3% + $3.50	3% + $3.50
2nd	12% + $10.82	12% + $10.82	8% + $4.04	8% + $4.04
3rd	12% + $11.73	12% + $11.73	9% + $5.08	9% + $5.08
4th	12% + $12.62	12% + $12.62	10% + $6.84	10% + $6.84
5th	12% + $13.51	12% + $13.51	11% + $10.79	11% + $10.79
6th	12% + $13.64	12% + $13.69	DNA	DNA

NOTE: Percentages are on "Hourly Wage Paid"
NOTE: "Hourly Wage Paid" shall include any and all premium(s) pay

4-25m

Electrician Lineman 08/01/2014

JOB DESCRIPTION Electrician Lineman **DISTRICT** 4

ENTIRE COUNTIES
Nassau, Queens, Suffolk

WAGES
For Utility Distribution & Transmission Line Construction:

Per Hour:	07/01/2014	03/29/2015
Lineman/Splicer	$ 49.52	$ 50.76
Material Man	43.08	44.16
Heavy Equip. Operator	39.62	40.61
Groundman	29.71	30.46
Flagman	22.28	22.84

For Natural Gasline Construction:

Per Hour:	07/01/2014	06/01/2015
Journeyman U.G.Mech.	$ 41.45	$ 42.69

Four (4), ten (10) hour days may be worked at straight time during a week, Monday thru Thursday.

NOTE - In order to use the '4 Day/10 Hour Work Schedule,' you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30R; additionally, there must be a dispensation of hours in place on the project.

SUPPLEMENTAL BENEFITS
Per Hour:
Utility Distribution & Transmission Line Construction:

	07/01/2014	03/29/2015
All Classifications	30.75% of Hourly Wage Paid + $ 10.56	30.75% of Hourly Wage Paid + $ 11.36

NOTE: "Hourly Wage Paid" shall include any and all premium(s) pay

Natural Gasline Construction:

Per Hour:	07/01/2014	06/01/2015
Journeyman U.G.Mech.	$ 20.51	$ 21.75

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE
OVERTIME for Natural Gas Mechanic:(B,G,P)

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 16, 23, 25, 26) on HOLIDAY PAGE
Same as Above for natural Gas Mechanic.

REGISTERED APPRENTICES
1000 hour Terms at the following Percentage of Journeyman's Wage.

1st	2nd	3rd	4th	5th	6th	7th
60%	65%	70%	75%	80%	85%	90%

SUPPLEMENTAL BENEFIT:	07/01/2014	03/29/2015
All Terms	30.75% of Hourly Wage Paid + $ 10.56	30.75% of Hourly Wage Paid + $ 11.36

Natural Gasline Construction:

	07/01/2014	06/01/2015

Natural Gas Mechanic:	$ 20.51	$ 21.75

4-1049 Line/Gas

Elevator Constructor — 08/01/2014

JOB DESCRIPTION Elevator Constructor

DISTRICT 4

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk

PARTIAL COUNTIES
Rockland: Entire County except for the Township of Stony Point
Westchester: Entire County except for the Townships of Bedford, Lewisboro, Cortland, Mt. Kisco, North Salem, Pound Ridge, Somers and Yorktown.

WAGES
Per hour:

	07/01/2014	03/17/2015
Elevator Constructor	$ 58.23	$ 59.55
Modernization & Service/Repair	46.00	46.92

SUPPLEMENTAL BENEFITS
Per Hour:

Elevator Constructor	$ 29.745	$ 31.045
Modernization & Service/Repair	29.595	31.195

OVERTIME PAY
Constructor. See (D, M, T) on OVERTIME PAGE.

Modern./Service See (B, F, S) on OVERTIME PAGE.

HOLIDAY
Paid: See (5, 6, 8, 11, 15, 16, 25) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 11, 15, 16, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
WAGES PER HOUR:
*Note:1st Term is based on Average wage of Constructor & Modernization.
Terms 2 thru 4 Based on Journeymans wage of classification Working in.

1 YEAR TERMS:

1st Term*	2nd Term	3rd Term	4th Term
50%	55%	65%	75%

SUPPLEMENTAL BENEFITS

Elevator Constructor		
1st Term	$ 25.745	$ 27.220
2nd Term	26.145	27.635
3rd Term	26.945	28.455
4th Term	27.745	29.285
Modernization & Service/Repair		
1st Term	$ 25.67	$ 27.145
2nd Term	26.065	27.550
3rd Term	26.845	28.36
4th Term	27.635	29.17

4-1

Glazier — 08/01/2014

JOB DESCRIPTION Glazier

DISTRICT 8

ENTIRE COUNTIES
Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Sullivan, Ulster, Westchester

WAGES

Per hour:	07/01/2014	11/01/2014	05/01/2015
Glazier	$ 51.00*	$ 51.35*	Additional $ 1.50**
Scaffolding	$ 52.00*	$ 52.35*	Additional $ 1.50**

Scafolding includes swing scaffold, mechanical equipment, scissor jacks, man lifts, booms & buckets 24' or more, but not pipe scaffolding.

Repair & Maintenance	$ 26.70*	$ 26.70*	Additional $ 0.60**

Repair & Maintenance- All repair & maintenance work on a particular building,whenever performed, where the total cumulative contract value is under $100,000.00.

*Additional $ .10 per hour for all regular hours worked
**To be allocated at a later date.

SUPPLEMENTAL BENEFITS

Per hour paid:	07/01/2014	11/01/2014	05/01/2015
Journeyworker	$ 26.69	$ 27.19	$ 27.19
Repair & Maintenance	16.14	16.14	16.14

OVERTIME PAY

OVERTIME: Premium is applied to the respective base wage only.
See (C*,D* E2, O) on OVERTIME PAGE.

* If an optional 8th hour is required to complete the entire project, the same shall be paid at the regular rate of pay. If a 9th hour is worked, then both hours or more (8th & 9th or more) will be paid at double time rate of pay.

For Repair & Maintenance see (B, F, P) on overtime page.

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
Overtime: See (4, 6, 16, 25) on HOLIDAY PAGE
Paid for the Repair & Maintenance (5, 6, 16 & 25)

REGISTERED APPRENTICES

Wage per hour:
(1) year terms at the following wage rates:

	07/01/2014	11/01/2014	05/01/2014
1st term	$ 17.05	$ 17.25	$ 17.25
2nd term	25.24	25.24	25.24
3rd term	30.40	30.81	30.81
4th term	40.75	41.27	41.27

Supplemental Benefits:
(Per hour worked)

1st term	$ 13.17	$ 13.32	$ 13.32
2nd term	22.45	22.45	22.45
3rd term	24.95	25.30	25.30
4th term	30.07	30.22	30.22

8-1281 (DC9 NYC)

Insulator - Heat & Frost **08/01/2014**

JOB DESCRIPTION Insulator - Heat & Frost **DISTRICT** 4

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk

WAGES
Per Hour: 07/01/2014

Insulators $ 63.68
Heat & Frost

SUPPLEMENTAL BENEFITS
Per Hour:

Insulators $ 30.44
Heat & Frost

OVERTIME PAY
See (A, D, O, V) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 11, 15, 16, 25, 26) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wages:

1 year terms at the following wage rate.

1st	2nd	3rd	4th
$25.47	$38.21	$44.59	$50.94

Supplemental Benefits per hour:

Apprentice Insulator(s)

1st	2nd	3rd	4th
$12.80	$18.26	$21.30	$24.35

4-12

Ironworker 08/01/2014

JOB DESCRIPTION Ironworker **DISTRICT** 4

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk, Westchester

PARTIAL COUNTIES
Rockland: Southern section - south of Convent Road and east of Blue Hills Road.

WAGES

Per hour:	07/01/2014	07/01/2015
Reinforcing & Metal Lathing	$ 52.03	Additional $ 2.00*

*To be allocated

SUPPLEMENTAL BENEFITS
Per hour paid:

Reinforcing & Metal Lathing $ 31.55

OVERTIME PAY
See (B, B1, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 11, 13, 18, 19, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
(1) year terms at the following wage rates:
Wages Per Hour:

Apprentices Registered BEFORE 6/29/2011

1st term	2nd term	3rd term
$ 28.11	$ 32.71	$ 37.77

Apprentices Registered ON or AFTER 6/29/2011

17.71	22.81	27.91

SUPPLEMENTAL BENIFITS
Per Hour:

Apprentices Registered BEFORE 6/29/2011

1st term	2nd term	3rd term
$ 23.02	$ 24.67	$ 25.82

Apprentices Registered On or AFTER 6/29/2011

20.08	20.08	20.08

4-46Reinf

Ironworker 08/01/2014

JOB DESCRIPTION Ironworker **DISTRICT** 4

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk, Westchester

WAGES
Per hour: 07/01/2014

Ornamental	$ 44.95
Chain Link Fence	44.95
Guide Rail Installation	44.95

SUPPLEMENTAL BENEFITS
Per hour paid:

Journeyworker:	$ 43.71

OVERTIME PAY
OVERTIME: See (A*,D1,E**,Q,V) on OVERTIME PAGE.

*Time and one-half shall be paid for all work in excess of seven (7) hours at the end of a work day to a maximum of two (2) hours on any regular work day (8th & 9th hours of work) and double time shall be paid for all work thereafter.
**Time and one-half shall be paid for all work on Saturday up to seven (7) hours and double time shall be paid for all work thereafter.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
1st term represents first 1-10 months, thereafter (1/2) year terms at the following percentage of Journeyman's wage.

1st	2nd	3rd	4th	5th
50%	55%	60%	70%	80%

Supplemental Benefits per hour paid:

1st Term	$ 34.02
2nd Term	34.98
3rd Term	35.95
4th Term	37.90
5th Term	39.65

4-580-Or

Ironworker 08/01/2014

JOB DESCRIPTION Ironworker **DISTRICT** 9

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk, Westchester

WAGES
Per Hour: 07/01/2014

IRONWORKER:

Ironworker Rigger	$ 53.25
Ironworker Stone Derrickman	$ 53.25

SUPPLEMENTAL BENEFITS
Ironworker: $ 37.13

OVERTIME PAY
See (*A, D1, **E, Q, V) on OVERTIME PAGE
*Time and one-half shall be paid for all work in excess of seven (7) hours at the end of a work day to a maximum of two hours on any regular work day (the eighth (8th) and ninth (9) hours of work) and double time shall be paid for all work thereafter.
**Time and one-half shall be paid for all work on Saturday up to seven (7) hours and double time shall be paid for all work thereafter.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 10, *24, 25) on HOLIDAY PAGE
*Work stops at schedule lunch break with full day's pay.

REGISTERED APPRENTICES
Wage per hour:

(1/2) year terms at the following hourly wage rate:

	1st	2nd	3rd	4th	5th	6th
07/01/2014	$26.38	$26.38	$39.73	$42.13	$45.56	$45.56

Supplemental benefits

Per hour paid:	
1st & 2nd terms	$18.82
3rd & 4th terms	$27.86
5th & 6th terms	$27.84

9-197D/R

Ironworker **08/01/2014**

JOB DESCRIPTION Ironworker **DISTRICT** 4

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk, Westchester

WAGES
PER HOUR:

	07/01/2014
Ironworker:	
Structural	$47.25
Bridges	
Machinery	

SUPPLEMENTAL BENEFITS
PER HOUR:

Journeyman	$65.20

OVERTIME PAY
See (B*,E**,Q,V) on OVERTIME PAGE.

* Time and one-half shall be paid for all work in excess of (8) eight hours at the end of a work day to a maximum of two hours on any regular work day (the ninth (9th) and tenth (10th) hours of work)and double time shall be paid for all work thereafter.

** Time and one-half shall be paid for all work on Saturday up to eight (8) hours and double time shall be paid for all work thereafter.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 18, 19) on HOLIDAY PAGE

REGISTERED APPRENTICES
WAGES PER HOUR:

6 month terms at the following rate:

1st	$ 24.73
2nd	25.33

3rd - 6th	25.93

Supplemental Benefits
PER HOUR:

All Terms	45.84

4-40/361-Str

Laborer - Building — 08/01/2014

JOB DESCRIPTION Laborer - Building **DISTRICT** 4

ENTIRE COUNTIES
Nassau, Suffolk

WAGES
WAGES

Per Hour:	07/01/2014	12/01/2014
Building Laborer	$ 35.65	
Asbestos Abatement Workers (Re-Roofing Removal see Roofer)	36.00	Additional $ 0.50*

SUPPLEMENTAL BENEFITS
Per Hour:

Building Laborer	$ 26.16
Asbestoes Abatment Worker	15.45

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE
See also(H)for Fire Watch on OVERTIME PAGE
Asbestos Worker See (B, H)

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 25) on HOLIDAY PAGE
Asbestos Worker see (5,6,8 &28)

REGISTERED APPRENTICES
Regular Hours Work Terms

TERM #1	1 hr to 1000hrs
TERM #2	1001hrs to 2000hrs
TERM #3	2001hrs to 3000hrs
TERM #4	3001hrs to 4000hrs

Wages per hour:

1st Term	$ 16.60
2nd Term	19.45
3rd Term	22.85
4th Term	27.12

Benifits per hour

1st Term	$ 16.77
2nd Term	18.87
3rd Term	19.64
4th Term	19.64

4-66

Laborer - Heavy&Highway — 08/01/2014

JOB DESCRIPTION Laborer - Heavy&Highway **DISTRICT** 4

ENTIRE COUNTIES
Nassau, Suffolk

WAGES
Laborer (Heavy/Highway):
GROUP # 1: Asphalt Rakers, Concrete Curb Formsetters.
GROUP # 2: Asphalt Shovelers, Roller Boys and Tampers.
GROUP # 3: Basic Laborer, Power Tool(Jackhammer), Landscape Construction, Traffic Control Personnel(flaggers)

WAGES PER HOUR:

	07/01/2014	06/01/2015 Additional
GROUP # 1		
Total Wage Paid	$ 44.85	4% of Total Package*
"Base Wage"	39.68	
GROUP # 2		
Total Wage Paid	$ 43.71	4% of Total Package*
"Base Wage"	38.54	
GROUP # 3		
Total Wage Paid	$ 40.22	4% of Total Package*
"Base Wage"	35.05	

NOTE: "Base Wage" for Premium/Overtime calculation Only. $5.17 is differance between "Base" and "Total"

(*) To be allocated at a later date

SUPPLEMENTAL BENEFITS

Per Hour:
ALL GROUPS $ 25.95

After Forty (40)paid
Hours in a work Week
OVERTIME PAY $ 15.96

OVERTIME PAY

OVERTIME PAY
See (B, E2, F) on OVERTIME PAGE
NOTES: Premium/Overtime Pay to be calculated on "Base Wage" only"
Example Group# 3: $35.05 X Time and One Half = 52.58+$5.17 = $57.75.
Premium Pay of 30% of base wage for all Straight time hours on all New York State, D.O.T. and other Goverment Mandated Off-Shift Work.
Hazardous Material Work add an Additional 10% of base wage

HOLIDAY

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (1) on HOLIDAY PAGE

REGISTERED APPRENTICES

2000 hour(s) Terms at the following Pecentage of the Journeyman's Wage:

1st 0-1999/Hrs	80%
2nd 2000-3999/Hrs	90%

Supplemental Benefits per hour:

All APPRENTICES	$ 25.95
After Forty(40) paid hours in a work Week	$ 15.96

4-1298

Mason — 08/01/2014

JOB DESCRIPTION Mason — **DISTRICT** 4

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk

WAGES

Per Hour: 07/01/2014

Brick/Blocklayer $53.71

SUPPLEMENTAL BENEFITS

Per Hour:

Brick/Block Layer $23.18

OVERTIME PAY

See (A, E, E2, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
(800 hour) Terms at the following Percentage of Journeyworkers Wage:

1st	2nd	3rd	4th	5th
50%	60%	70%	80%	90%

Supplemental Benefits per hour:

All Apprentices $ 14.90

4-1Brk

Mason - Building 08/01/2014

JOB DESCRIPTION Mason - Building **DISTRICT** 9

ENTIRE COUNTIES
Nassau, Rockland, Suffolk, Westchester

WAGES

Per hour:	07/01/2014	12/01/2014 An additional	06/01/2015 An additional
Building:			
Tile Setters	$ 52.58	$ 1.13*	$ 1.13*

* May be allocated between wages and benefits

SUPPLEMENTAL BENEFITS
Per Hour:

Journey Worker $22.14* plus $8.05

OVERTIME PAY
See (B, E, Q, V) on OVERTIME PAGE
* This portion of benefits subject to same premium rate as shown for overtime wages.
Work beyond 10 hours on Saturday shall be paid at double the hourly wage rate.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 11, 15, 16, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wage per hour:

Tile Setters:
(750 hour) term at the following wage rate:

Term: 1st 1-750	2nd 751-1500	3rd 1501-2250	4th 2251-3000	5th 3001-3750	6th 3751-4500	7th 4501-5250	8th 5251 6000	9th 6001-6750	10th 6750-7500
$26.91	$30.04	$33.86	$36.07	$39.91	43.53	$46.63	$46.17	$49.89	51.70

Starting 12/01/2014
An additional:

$0.65	$0.72	$0.78	$0.85	$0.91	$0.98	$1.04	$1.11	$1.17	$1.25

Starting 06/01/2015
An addtional:

$0.65	$0.72	$0.78	$0.85	$0.91	$0.98	$1.04	$1.11	$1.17	$1.25

NOTE: INCREASES MAY BE ALLOCATED BETWEEN WAGES AND BENEFITS

Supplemental Benefits per hour:

1st term $13.95* plus $0.71 6th term $17.35* plus $1.49

2nd term	$14.95* plus $0.75	7th term	$17.55* plus $5.34
3rd term	$14.95* plus $1.09	8th term	$18.75* plus $5.71
4th term	$16.85* plus $1.13	9th term	$19.15* plus $5.75
5th term	$16.85* plus $1.45	10th term	$20.87* plus $5.79

9-7/52A

Mason - Building 08/01/2014

JOB DESCRIPTION Mason - Building **DISTRICT** 9

ENTIRE COUNTIES
Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Sullivan, Ulster, Westchester

WAGES

Wages:	07/01/2014	01/01/2015
Marble Cutters& Setters	$ 55.85	$ 56.15

SUPPLEMENTAL BENEFITS
Per Hour:

Journeyworker	$ 29.58	$ 30.31

OVERTIME PAY
See (B, E, Q, V) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 11, 15, 16, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wage Per Hour:

750 hour terms at the following wage.

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
1-750	751-1500	1501-2250	2251-3000	3001-3750	3751-4500	4501-5250	5251-6000	6001-6751	6751-7500
$ 22.34	$25.13	$27.93	$30.72	$33.51	$36.30	$39.10	$41.89	$47.47	$53.06

Supplemental Benefits per hour paid at the following term:

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
$21.86	$22.51	$23.14	$23.80	$24.43	$25.07	$25.71	$26.36	$27.64	$29.93

9-7/4

Mason - Building 08/01/2014

JOB DESCRIPTION Mason - Building **DISTRICT** 9

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk, Westchester

WAGES

Per hour:	07/01/2014	01/01/2014
Building-Marble Restoration:		
Marble, Stone & Terrazzo Polisher, etc	$ 38.96	$ 39.25

SUPPLEMENTAL BENEFITS
Per Hour Paid:

Journeyworker:		
Building-Marble Restoration:		
Marble, Stone & Polisher	$ 23.00	$ 23.38

OVERTIME PAY
See (B, *E, Q, V) on OVERTIME PAGE
*ON SATURDAYS, 8TH HOUR AND SUCCESSIVE HOURS PAID AT DOUBLE HOURLY RATE.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 11, 15, 25) on HOLIDAY PAGE
1ST TERM APPRENTICE GETS PAID FOR ALL OBSERVED HOLIDAYS.

REGISTERED APPRENTICES
WAGES per hour:

(900 hour)terms at the following wages:

	1st 0-900	2nd 901-1800	3rd 1801-2700	4th over 2700
07/01/2014	$ 27.27	$ 31.17	$35.06	$ 38.96
01/01/2015	An additional $0.47*	An additional $0.54*	An additional $0.60*	An additional $0.67*

* May be allocated between wages and benefits

Supplemental Benefits Per Hour:

07/01/2014

$ 21.11	$ 21.73	$ 22.36	$ 23.00

9-7/24-MP

Mason - Building — 08/01/2014

JOB DESCRIPTION Mason - Building **DISTRICT** 9

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk, Westchester

WAGES
Building:
Per Hour:

	07/01/2014	01/01/2015
		Additional
Mosaic & Terrazzo Mechanic	$ 45.88	$ 0.96*
Mosaic & Terrazzo Finisher	$ 47.28	$ 0.96*

*May be allocated between wages and benefits

SUPPLEMENTAL BENEFITS
Journeyworker:
per hour worked

Mechanic	$ 22.40* plus $ 9.68
Finisher	$ 22.40* plus $ 9.68

* This portion of benefit subject to same premium as wages.

OVERTIME PAY
See (A, *E, Q) on OVERTIME PAGE
Double the rate after 10 hours on Saturday

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 11, 15, 16, 25) on HOLIDAY PAGE
Easter Sunday is an observed holiday.Holidays falling on a Saturday will be observed on that Saturday. Holidays falling on a Sunday will be celebrated on the Monday.

REGISTERED APPRENTICES
Wage per hour:
(750 Hour) terms at the following wage rate.

1st 1-750	2nd 751-1500	3rd 1500-2250	4th 2251-3000	5th 3001-3750	6th 3751-4500	7th 4501-5250	8th 5251-6000
$23.96	$26.36	$28.76	$31.15	$33.55	$35.96	$40.74	$45.53

Supplemental benefits per worked:

(750 hour) terms as shown above.

1st	2nd	3rd	4th	5th	6th	7th	8th	9th
$11.20* +4.85	$12.32* +5.33	$13.44* +5.81	$14.56* +6.30	$15.68* +6.78	$16.80* +7.26	$19.04* +8.23	$21.28* +9.20	$22.40* +9.68

*This portion of benefits subject to same premium as overtime wages.

9-7/3

Mason - Building — 08/01/2014

JOB DESCRIPTION Mason - Building **DISTRICT** 9

ENTIRE COUNTIES
Nassau, Rockland, Suffolk, Westchester

WAGES

Per hour:	07/01/2014	12/01/2014	06/01/2015
Buidling:			
Tile Finisher	$40.78	$0.82*	$0.82*

* May be allocated between wages and benefits

SUPPLEMENTAL BENEFITS
Per Hour:

Journey worker	$ 19.57* plus $7.90

OVERTIME PAY
See (B, E, Q, *V) on OVERTIME PAGE
* This portion of Supplemental benefits subject to same premium rate as shown for overtime wages.
Work beyond 10 hours on a Saturday shall be paid at double the hourly wage rate.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 11, 15, 16, 25) on HOLIDAY PAGE

9-7/88A-tf

Mason - Building — 08/01/2014

JOB DESCRIPTION Mason - Building **DISTRICT** 9

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk, Westchester

WAGES

Per hour:	07/01/2014	01/01/2015
Marble, Stone,etc.		
Maintenance Finishers:	$ 21.24	$ 21.38

Note 1: An additional $2.00 per hour for time spent grinding floor using "60 grit" and below.
Note 2: Flaming equipment operator shall be paid an additional $25.00 per day.

SUPPLEMENTAL BENEFITS
Per Hour:

Marble, Stone, etc
Maintenance Finishers: $ 11.77 $ 11.99

OVERTIME PAY
See (B, *E, Q, V) on OVERTIME PAGE
*Double hourly rate after 8 hours on Saturday

HOLIDAY
Paid: See (5, 6, 8, 11, 15, 25) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 11, 15, 25) on HOLIDAY PAGE
1st term apprentice gets paid for all observed holidays.

REGISTERED APPRENTICES
WAGES per hour:
(750 hour)terms at the following percentage of journeyman's wage rate: 07/01/2014

1st term	0-750	70%
2nd term	750-1500	74%
3rd trem	1501-2250	78%
4th term	2251-3000	82%
5th term	3001-3750	88%
6th term	3751-4500	96%

Supplemental Benefits:
Per hour paid

1st term	$ 11.58
2nd term	11.59
3rd term	11.72
4th term	11.73
5th term	11.74
6th term	11.76

9-7/24M-MF

Mason - Building / Heavy&Highway 08/01/2014

JOB DESCRIPTION Mason - Building / Heavy&Highway **DISTRICT** 9

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk, Westchester

WAGES
Per hour: 07/01/2014 01/01/2015

Marble-Finisher $ 44.54 44.81

SUPPLEMENTAL BENEFITS
Journeyworker:
per hour paid

Marble- Finisher $ 29.16 $ 29.79

OVERTIME PAY
See (B, E, Q, V) on OVERTIME PAGE

HOLIDAY
Overtime: See (5, 6, 8, 11, 15, 16, 25) on HOLIDAY PAGE
* Work beyond 8 hours on a Saturday shall be paid at double the rate.
** When an observed holiday falls on a Sunday, it will be observed the next day.

9-7/20-MF

Mason - Building / Heavy&Highway 08/01/2014

JOB DESCRIPTION Mason - Building / Heavy&Highway **DISTRICT** 4

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk

WAGES
Per Hour: 07/01/2014

Cement Mason $ 45.53

Four (4), ten (10) hour days may be worked at straight time during a week, Monday thru Friday. Any make-up day must be paid at the premium rate.

NOTE - In order to use the '4 Day/10 Hour Work Schedule,' you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30R; additionally, there must be a dispensation of hours in place on the project.

SUPPLEMENTAL BENEFITS
Per Hour:

Cement Mason $ 32.80

OVERTIME PAY
See (*B1, E2, **Q, ***V) on OVERTIME PAGE
* Applies to 9th and 10th hours on Saturday
** "Holidays" only for Building Construction
*** Additional $10.18 to be added to all Time and a Half hours paid

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 11, 13, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
(1) year terms at the following Percentage of Journeyworkers Wage.

1st Term	50%
2nd Term	60%
3rd Term	70%

Supplement Benefits per hour paid:

1st Term	$ 16.40
2nd Term	19.68
3rd Term	25.99

4-780

Mason - Building / Heavy&Highway 08/01/2014

JOB DESCRIPTION Mason - Building / Heavy&Highway **DISTRICT** 4

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk

WAGES
WAGES

NOTE: Shall include but not limited to Precast concrete slabs (London Walks)
Marble and Granite pavers 2'x 2' or larger.
Per Hour:

	07/01/2014
Stone Setter	$58.72 plus $1.50*
Stone Tender	$40.54 plus $1.50*

*Additional Amounts to be added to Wages and or Benifits.

SUPPLEMENTAL BENEFITS
Per Hour:

Stone Setter	$ 27.35
Stone Tender	17.45

OVERTIME PAY
See (*C, **E, Q) on OVERTIME PAGE
* On weekdays the eighth (8th) and ninth (9th) hours are time and one-half all work thereafter is paid at double the hourly rate.
** The first nine (9) hours on Saturday is paid at time and one-half all work thereafter is paid at double the hourly rate.

HOLIDAY
Paid: See (*18) on HOLIDAY PAGE
Overtime: See (5, 6, 10) on HOLIDAY PAGE
Paid: *Must work First 1/2.

REGISTERED APPRENTICES
Per Hour:

Stone Setter(800 hour) terms at the following Percentage of Stone Setters wage rate per hour:

1st	2nd	3rd	4th	5th	6th
50%	60%	70%	80%	90%	100%

Supplemental Benefits:
All Apprentices $17.53

4-1Stn

Mason - Heavy&Highway 08/01/2014

JOB DESCRIPTION Mason - Heavy&Highway **DISTRICT** 4

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk

WAGES
Per Hour: 07/01/2014

Pointer, Caulkers & Cleaners $47.41

SUPPLEMENTAL BENEFITS
Per Hour:

Pointer, Cleaners & Caulkers $ 24.60

OVERTIME PAY
See (B, E2, H) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 25, 26) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wages per hour:

One (1) year terms at the following wage rates.

1st	2nd	3rd	4th
$25.01	$27.25	$32.24	$38.66

Apprentices Supplemental Benefits:
(per hour paid)

$4.75	$9.70	$12.45	$12.45

4-1PCC

Operating Engineer - Building 08/01/2014

JOB DESCRIPTION Operating Engineer - Building **DISTRICT** 4

ENTIRE COUNTIES
Nassau, Suffolk

WAGES
BUILDING CATEGORIES:

CLASS " AA "CRANES:
Crane, Truck Crane, Derrick, Dragline, Dredge, Crawler Crane, Tower Crane & Pile Driver.

CLASS "A":
Asphalt Spreader, Backhoe Crawler/Hydraulic Excavator(360 upto & over 150,000lbs),Boiler, Boring Machine, Cherry Picker(over 70 tons), Concrete Pump, Gradall, Grader, Hoist, Loading Machine(10 yds. or more), Milling Machine, Power Winch-Stone Setting/Structural Steel & Truck Mounted, Powerhouse, Road Paver, Scoop-Carryall-Scraper in Tandem, Steam Shovel, Sideboom Tractor, Stone Spreader(selfpropelled), Tank Work, Tower Crane Engineer.

CLASS "B":

Backhoe(other than 360), Boom Truck, Bulldozer, Boring Machine/Auger, Cherry Picker(under 70 Tons), Conveyor-Multi, Dinkey Locomotive, Fork Lift, Hoist(2 Drum), Loading Machine & Front Loader, Mulch Machine(Machine Fed), Power Wincher(Not Included in Class "A"), Asphalt Roller, Hydraulic Pump with Boring Machine, Scoop, Carryall/Scaper, Skid Loader/Skid Steer, Maintenance Man on Tower Crane,Trenching Machine, Vermeer Cutter, Work Boat.

CLASS "C":
Curb Machine(asphalt & Concrete), Maintenance Engineer(Small Equip. & Well Point), Field Mechanic, Milling Machine(Small), Pulvi Mixer, Pumps(all), Roller(dirt), Ridge Cutter, Vac-All(Truck), Jet Pump(Truck), Shotblaster, Interior Hoist, Concrete Finish Machine, Concrete Spreader, Conveyer, Curing Machine, Hoist(one drum).

CLASS "D":
Concrete Breaker, Concrete Saw/Cutter, Fork Life or Walk Behind (power operated), Generator, Hydra Hammer, Compactors(mechanical or hand operated), Pin Puller, Portable Heaters, Power Booms, Power Buggies, Pump(double action diaphragm).

CLASS "E":
Batching Plant, Generator, Grinder, Mixer, Mulching Machine, Oiler, Pump(gypsum), Pump(single action diaphragm), Stump Chipper, Track Tamper, Tractor(caterpiller or wheel), Vibrator, Deckhand on Workboat.

	07/01/2014
Class "AA"	$ 69.79
Cranes: Boom length over 100 feet add $ 1.00 per hour	
" " " 150 " " $ 1.50 " "	
" " " 250 " " $ 2.00 " "	
" " " 350 " " $ 3.00 " "	
Class "A"	$ 58.28
Add $3.50 for Hazardous Waste Work	
Class "B"	$ 55.38
Add $2.50 for Hazardous Waste Work	
Class "C"	$ 53.44
Add $1.50 for Hazardous Waste Work	
Class "D"	$ 49.53
Add $1.00 for Hazardous Waste Work	
Class "E"	$ 47.58

SUPPLEMENTAL BENEFITS
Per Hour:

All Classes	$ 31.45
Overtime Rate	24.35

OVERTIME PAY
See (D, O) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6, 15, 16, 25) on HOLIDAY PAGE
Overtime: See (5, 6, 15, 16, 25) on HOLIDAY PAGE
"NOTE" Employee must be Employed day before and day after Holiday to recieve Holiday Pay.

REGISTERED APPRENTICES
One(1) Year Terms at the following Rate:

1st Term	$ 20.84
2nd Term	21.67
3rd Term	22.33

Supplemental Benefits per hour:

All Apprentices	$ 15.64
Overtime Rate	5.60

JOB DESCRIPTION Operating Engineer - Building / Heavy&Highway **DISTRICT** 4

ENTIRE COUNTIES
Nassau, Suffolk

WAGES

Per Hour:	07/01/2014
Well Driller	$ 33.98
Well Driller Helper	$ 29.76

Hazardous Waste Differential Added to Hourly Wage:

Level A	$ 3.00
Level B	2.00
Level C	1.00

Monitoring Well Work Add to Hourly Wage:

Level A	$ 3.00
Level B	2.00

SUPPLEMENTAL BENEFITS

Per Hour:	07/01/2014
Well Driller & Helper	$ 10% of straight time rate plus $ 10.79

Additional $ 3.42 for Premium Time

OVERTIME PAY
See (B, E, G, P) on OVERTIME PAGE

HOLIDAY

Paid:	See (5, 6, 16, 23) on HOLIDAY PAGE
Overtime:	See (5, 6, 16, 23) on HOLIDAY PAGE

REGISTERED APPRENTICES
Apprentices at 12 Month Terms

Wages Per Hour:	07/01/2014
1st Term	$ 20.84
2nd Term	$ 21.67
3rd Term	$ 22.33

SUPPLEMENTAL BENIFITS
Per Hour:

1st Term	10% of Wage + $ 5.10
2nd Term	10% of Wage + $ 5.60
3rd Term	10% of Wage + $ 6.60

BENEFITS AT PREMIUM TIME
Per Hour:

1st Term	10% of Wage + $ 5.85
2nd Term	10% of Wage + $ 6.60
3rd Term	10% of Wage + $ 8.10

4-138well

Operating Engineer - Heavy&Highway **08/01/2014**

JOB DESCRIPTION Operating Engineer - Heavy&Highway **DISTRICT** 4

ENTIRE COUNTIES
Nassau, Suffolk

WAGES
HEAVY/HIGHWAY CATEGORIES:

CLASS "AA" CRANES:
Crane, Truck Crane, Derrick, Dragline, Dredge, Crawler Crane, Tower Crane, Pile Driver.

CLASS "A":
Asphalt Spreader, Backhoe Crawler/Hydraulic Excavator(360 up to & over 150,000lbs), Barrier Machine, Cherrypicker(over 70 tons), Concrete Pump, Grader, Gradall, Hoist, Loading Machine(bucket 10 yds. or more), Laser Screed, Milling Machine(Large), Power Winch-Stone Setting/Structural Steel or Truck Mounted, Powerhouse, Road Paver, Scoop-Carryall-Scaper in Tandem, Side Boom Tractor, Stone Spreader(self propelled), Striping Machine(long line/truck mounted), Tree Grapple, Tank Work, Track Alignment Machine.

CLASS "B":
Backhoe(other than 360), Boom Truck, Bulldozer, Boring Machine/Auger, Cherry Picker(under 70 tons), Conveyor-Multi, Post Hole-Auger, Fork Lift, Hoist(2 drum), Loading Machine & Front Loader, Mulch Machine(machine fed), Power Wincher(all others not included in class A), Asphalt Roller, Hydraulic Pump with Boring Machine, Scoop, Carryall/Scraper, Skid Loader/Skid Steer, Maintenance Man on Tower Crane, Trenching Machine, Vermeer Cutter, Work Boat.

CLASS "C":
Boiler(Thermoplastic), Curb Machine(Asphalt & Concrete), Maintenance Engineer(Small Equip. & Well Point), Field Mechanic, Milling Machine(Small), Pulvi Mixer, Pumps(Hydralic & 4in or over), Roller(Dirt), Vac-All (Truck), Jet Pump (Truck),Power Winch (Truck Mounted), Compressor(Structural Steel & 2 or more Batteries), Concrete Finish Machine, Concrete Spreader, Conveyor, Curing Machine, Fireman, Hoist (One Drum), Ridge Cutter, Shot Blaster, Welding Machine(Structural Steel & Pile Work).

CLASS "D":
Compressor(Pile,Crane,Stone Setting), Concrete Saw Cutter/ Breaker, Work Lift (Walk Behind,Power Operated), Generator(Pile Work),Hydra Hammer, Hand Operated Compactor, Pin Puller, Portable Heater, Powered Broom/Buggy/Grinder, Pum(Single)Action-1 to 3 Inches/Gypsum/Double Action Diaphragm), Welding Machine, Robotic Units, Hand Line Striper.

CLASS "E":
Batching Plant(On Job Site), Compressor, Generator, Grinder, Mixer, Mulching Machine(Hand Feed), Oiler, Pumps(Single action up to 3 In.), Root Cutter, Stump Chipper, Oiler on Tower Crane, Trenching Machine(Hand,walk behind), Track Tamper, Tractor, Vibrator, Deckhand on Work Boat.

	07/01/2014
Class "AA"	$ 69.12

Cranes: Boom Length over 100 feet add $ 1.00 per hour
" " " 150 " " $ 1.50 " "
" " " 250 " " $ 2.00 " "
" " " 350 " " $ 3.00 " "

Class "A"	$ 61.35*
*Add $3.50 for Hazardous Waste Work.	
Class "B"	$ 57.43*
*Add $2.50 for Hazardous Waste Work.	
Class "C"	$ 55.44*
*Add $1.50 for Hazardous Waste Work	
Class "D"	$ 51.43*
*Add $1.00 for Hazardous Waste Work	
Class "E"	$ 49.47

"NOTE": ADD 30% to straight time hrly wage for NEW YORK STATE D.O.T. and other GOVERNMENTAL MANDATED off-shift work.

SUPPLEMENTAL BENEFITS
Per Hour:

ALL CLASSES	$ 31.70
Note: OVERTIME AMOUNT	$ 24.35

OVERTIME PAY
See (D, O) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6, 7, 8) on HOLIDAY PAGE
Overtime: See (5, 6, 7, 8) on HOLIDAY PAGE

"Note" Employee must be employed day before and day after a holiday to receive holiday pay.

REGISTERED APPRENTICES
REGISTERED APPRENTICES
One(1) Year Terms at the following Rate:

1st Term	$ 20.84
2nd Term	21.67
3rd Term	22.33

SUPPLEMENTAL:

APPRENTICES	15.64
Note:	
OVERTIME AMOUNT	5.60

4-138

Operating Engineer - Heavy&Highway — 08/01/2014

JOB DESCRIPTION Operating Engineer - Heavy&Highway **DISTRICT** 4

ENTIRE COUNTIES
Nassau, Suffolk

WAGES
Party Chief - One who directs a survey party
Instrument Man - One who runs the instrument and assists Party Chief
Rodman - One who holds the rod and in general, assists the survey party
Categories cover GPS & Under Ground Surveying

Per Hour: 07/01/2014

Heavy Highway/Building

Party Chief	$ 60.40
Instrument Man	46.02
Rodman	39.46

SUPPLEMENTAL BENEFITS
Per Hour:

Heavy Highway/Building	$ 30.62

Premium*:

Heavy Highway/Building	$ 42.74

Premium**:

Heavy Highway/Building	$ 54.84

* Applies to instances where 1-1/2 regular rate are paid
**Applies to instances where 2 times the rate are paid.

OVERTIME PAY
See (B, *E, Q) on OVERTIME PAGE
* Doubletime paid on the 9th hour on Saturday.

HOLIDAY

Paid:	See (5, 6, 8, 11, 12, 15, 25) on HOLIDAY PAGE
Overtime:	See (5, 6, 8, 11, 12, 15, 25) on HOLIDAY PAGE

4-15D-N/S co.

Operating Engineer - Marine Construction — 08/01/2014

JOB DESCRIPTION Operating Engineer - Marine Construction **DISTRICT** 4

ENTIRE COUNTIES
Albany, Allegany, Bronx, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Kings, Lewis, Livingston, Madison, Monroe, Montgomery, Nassau, New York, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Queens, Rensselaer, Richmond, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Suffolk, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Westchester, Wyoming, Yates

WAGES

Per Hour:

DREDGING OPERATIONS	07/01/2014	10/01/2014
CLASS A Operator, Leverman, Lead Dredgeman	$ 34.73	$ 35.63
CLASS A1 Dozer,Front Loader Operator	To conform to Operating Engineer Prevailing Wage in locality where work is being performed including benefits.	
CLASS B Spider/Spill Barge Operator, Tug Operator(over1000hp), OperatorII, Fill Placer, Derrick Operator, Engineer, Chief Mate, Electrician, Chief Welder, Maintenance Engineer	$ 30.05	$ 30.81
Certified Welder, Boat Operator(licensed)	$ 28.30	$ 29.01
CLASS C Drag Barge Operator, Steward, Mate, Assistant Fill Placer,	$ 27.54	$ 28.22
Welder (please add)$ 0.06		
Boat Operator	$ 26.55	$ 27.30
CLASS D Shoreman, Deckhand, Rodman, Scowman, Cook, Messman, Porter/Janitor	$ 22.17	$ 22.68
Oiler(please add)$ 0.09		

SUPPLEMENTAL BENEFITS

Per Hour:

THE FOLLOWING SUPPLEMENTAL BENEFITS APPLY TO ALL CATEGORIES

	07/01/2014	10/01/2014
All Classes A & B	$ 9.42 plus 8% of straight time wage, Overtime hours add $ 0.63	$ 9.99 plus 8% of straight time wage, Overtime hours add $ 0.63
All Class C	$ 9.12 plus 8% of straight time wage, Overtime hours add $ 0.48	$ 9.69 plus 8% of straight time wage, Overtime hours add $ 0.48
All Class D	$ 8.82 plus 8% of straight time wage, Overtime hours add $ 0.33	$ 9.39 plus 8% of straight time wage, Overtime hours add $ 0.33

OVERTIME PAY

See (B, F, R) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 15, 26) on HOLIDAY PAGE

4-25a-MarConst

JOB DESCRIPTION Operating Engineer - Survey Crew - Consulting Engineer **DISTRICT** 9

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Putnam, Queens, Richmond, Suffolk, Westchester

PARTIAL COUNTIES
Dutchess: That part in Duchess County lying South of the North City line of Poughkeepsie.

WAGES
Feasibility and preliminary design surveying, any line and grade surveying for inspection or supervision of construction.

Per hour: Survey Classifications	07/01/2014	07/01/2015 Additional	07/01/2016 Additional
Party Chief	$35.55 + $1.06*	$1.63*	$2.24*
Instrument Man	29.41 + 0.94*	1.44*	1.98*
Rodman	25.54 + 0.86*	1.32*	1.82*

* To be allocated at a future date

SUPPLEMENTAL BENEFITS
Per Hour:

All Crew Members:	$17.90	$17.90	$17.90

OVERTIME PAY
OVERTIME:.... See (B, E*, Q, V) ON OVERTIME PAGE.
*Doubletime paid on the 9th hour on Saturday.

HOLIDAY
Paid: See (5, 6, 7, 11, 16) on HOLIDAY PAGE
Overtime: See (5, 6, 7, 11, 16) on HOLIDAY PAGE

9-15dconsult

Operating Engineer - Trenchless Pipe Rehab 08/01/2014

JOB DESCRIPTION Operating Engineer - Trenchless Pipe Rehab **DISTRICT** 4

ENTIRE COUNTIES
Nassau, Suffolk

WAGES

IMPORTANT NOTE: This Category & Classifications are now located in Operating Engineers/Heavy Highway & Laborers/ Heavy Highway.

Per Hour:

	07/01/2014 (SEE)
Robotic Unit Operator	Operator(class D)
Technician/Boiler, Generator	Operator(classes C&D)
AM Liner/Hydra Seal	Laborer(Grp#3)
Hobas Pipe, Polyethyene Pipe or Pull and Inflate Liner	Laborer(Grp#3)

OVERTIME PAY

HOLIDAY

4-138TrchPReh

Painter 08/01/2014

JOB DESCRIPTION Painter **DISTRICT** 8

ENTIRE COUNTIES
Putnam, Suffolk, Westchester

PARTIAL COUNTIES

Nassau: All of Nassau except the areas described below: Atlantic Beach, Ceaderhurst, East Rockaway, Gibson, Hewlett, Hewlett Bay, Hewlett Neck, Hewlett Park, Inwood, Lawrence, Lido Beach, Long Beach, parts of Lynbrook, parts of Oceanside, parts of Valley Stream, and Woodmere. Starting on the South side of Sunrise Hwy in Valley Stream running east to Windsor and Rockaway Ave., Rockville Centre is the boundary line up to Lawson Blvd. turn right going west all the above territory. Starting at Union Turnpike and Lakeville Rd. going north to Northern Blvd. the west side of Lakeville road to Northern blvd. At Northern blvd. going east the district north of Northern blvd. to Port Washington Blvd. West of Port Washington blvd.to St.Francis Hospital then north of first traffic light to Port Washington and Sands Point, Manor HAven, Harbour Acres.

WAGES

Per hour:	07/01/2014
Drywall Taper	$ 41.75

SUPPLEMENTAL BENEFITS

Per hour worked:	07/01/2014
Journeyman	$ 20.97

OVERTIME PAY
See (A, H) on OVERTIME PAGE
For Journeyman: Deduct $4.25 from wage rate BEFORE calculating overtime pay.
For Apprentices: Deduct $ 2.44 from 2nd term wage rate, and $ 3.25 from 3rd term wage rate BEFORE calculating overtime pay.

HOLIDAY

Paid:	See (1) on HOLIDAY PAGE
Overtime:	See (4, 5, 6, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wages(per Hour)	07/01/2014

1500 hour terms at the following wage rate:

1st term	$ 18.13
2nd term	$ 27.19
3rd term	$ 36.26

Suppemental Benefits per hour:
One year term (1500 hours)at the following dollar amount.

1st year	$ 10.25
2nd year	$ 16.43
3rd year	$ 19.25

8-NYDCT9-DWT

Painter — 08/01/2014

JOB DESCRIPTION Painter **DISTRICT** 8

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Putnam, Queens, Richmond, Suffolk, Westchester

WAGES

Per hour:	07/01/2014
Brush	$ 43.75
Abatement/Removal of lead based or lead containing paint on materials to be repainted.	$ 43.75
Spray & Scaffold	$ 46.75
Fire Escape	$ 46.75
Decorator	$ 46.75
Paperhanger/Wall Coverer	$ 41.08

SUPPLEMENTAL BENEFITS
Per hour worked:

	07/01/2014
Paperhanger	$ 29.33
All others	$ 20.97
Premium*	$ 23.47*

*Applies only to "All others" catergory,not paperhanger journeyman.

OVERTIME PAY
See (A, H) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 16, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
Indentured after 5/31/93 (1) year terms at the following wage rate.
(per hour)

	07/01/2014
Appr 1st term...	$ 16.55
Appr 2nd term...	$ 21.66
Appr 3rd term...	$ 26.24
Appr 4th term...	$ 35.02

Spplemental benefis:
(per Hour worked)

Appr 1st term...	$ 10.23
Appr 2nd term...	$ 12.92
Appr 3rd term...	$ 15.20
Appr 4th term...	$ 19.70

8-NYDC9-B/S

Painter 08/01/2014

JOB DESCRIPTION Painter **DISTRICT** 8

ENTIRE COUNTIES
Bronx, Kings, New York, Queens, Richmond

PARTIAL COUNTIES
Nassau: Atlantic Beach, Ceaderhurst, East Rockaway,Hewlett, Hewlett Bay, Hewlett Neck, Hewlett Park, Inwood, Lawrence, Lido Beach, Long Beach, parts of Lynbrook, parts of Oceanside, parts of Valley Stream, and Woodmere. Starting on South side of Sunrise Hwy in Valley Stream running east to Windsor and Rockaway Ave, Rockville is the boundary line up to Lawson Blvd, turning right going west all the above territory. Starting at Union Turnpike &Lakeville Rd going north to northern Blvd. the west side of Lakeville Rd to Northern Blvd. At Northern Blvd doing east the district north of Northern blvd to Port Washington blvd. West of Port Washington blvd to St.Francis Hospital then north of first traffic light to Port Washington & Sands Point, Manor Haven, & Harbour Acres.

WAGES
Per hour:

	07/01/2014	12/31/2014	07/01/2015
Drywall Taper	$ 45.32	$ 45.82	$ 46.32

SUPPLEMENTAL BENEFITS
Per Hour:

	07/01/2014	12/31/2014	07/01/2015
Journeyworker:	$ 23.03	$ 23.03	$ 23.03

OVERTIME PAY
See (A, H) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (4, 6, 8, 11, 18, 19, 25, 26) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wage per hour:

12 months' terms(year consists of 1500 hours).

	07/01/2014	12/31/2014	07/01/2015
1st year	$ 18.13	$ 18.33	$ 18.53
2nd year	$ 27.20	$ 27.50	$ 27.80
3rd year	$ 36.26	$ 36.66	$ 37.06

Supplemental Benefits per hour worked:

One (1) year term at the following dollar amount:

1st term	$ 10.25	$ 10.25	$ 10.25
2nd term	$ 16.43	$ 16.43	$ 16.43
3rd term	$ 19.25	$ 19.25	$ 19.25

8-NYC9-1974-DWT

Painter - Bridge & Structural Steel — 08/01/2014

JOB DESCRIPTION Painter - Bridge & Structural Steel **DISTRICT** 8

ENTIRE COUNTIES
Albany, Bronx, Clinton, Columbia, Dutchess, Essex, Franklin, Fulton, Greene, Hamilton, Kings, Montgomery, Nassau, New York, Orange, Putnam, Queens, Rensselaer, Richmond, Rockland, Saratoga, Schenectady, Schoharie, Suffolk, Sullivan, Ulster, Warren, Washington, Westchester

WAGES
Per Hour Worked:
STEEL:

Bridge Painting:	07/01/2014	10/01/2014
From May 1st to Nov. 15th -		
	$ 47.00	$ 48.75
	+ 5.38*	+ 5.63*
From Nov. 16th to April 30th -		
	$ 47.00	$ 48.75
	+ 5.38*	+ 5.63*

*Not subject to overtime and limited to first 40 hours
NOTE: All premium wages are to be calculated on $47.00 or $48.75 per hour only.

EXCEPTION: During the period of May 1st to November 15th, for the first and last week of employment on the project, and for the weeks of Memorial Day, Independence Day and Labor Day, this rate shall be paid for the actual number of hours worked.

Power Tool/Spray is an additional $6.00 per hour above hourly rate, whether straight time or overtime

NOTE: Generally, for Bridge Painting Contracts, ALL WORKERS on and off the bridge (including Flagmen) are to be paid Painter's Rate; the contract must be ONLY for Bridge Painting.

SUPPLEMENTAL BENEFITS
Per Hour Worked:

Journeyworker:	07/01/2014	10/01/2014
From May 1st to Nov. 15th -		
Hourly Rate up to 40 hours	$ 28.20	$ 28.95
Hourly Rate after 40 hours	7.50	7.50
From Nov. 16th to April 30th -		
Hourly Rate up to 50 hours	28.20	28.95
Hourly Rate after 50 hours	7.50	7.50

EXCEPTION: During the period of May 1st to November 15th, for the first and last week of employment on the project, and for the weeks of Memorial Day, Independence Day and Labor Day, this rate shall be paid for the actual number of hours worked.

OVERTIME PAY
See (A, F, R) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (4, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES
(Wage per hour Worked):

Apprentices: (1) year terms

	07/01/2014	10/01/2014
1st 90 days	$ 20.96	$ 21.76
1st year after 90 days	20.96	21.76

2nd year	31.43	32.63
3rd year	41.91	43.51

Supplemental Benefits per hour worked:

	07/01/2014	10/01/2014
1st 90 days	$ 8.29	$ 8.59
1st year after 90 days	8.54	8.84
2nd year	16.93	17.38
3rd year	22.57	26.17

8-DC-9/806/155-BrSS

Painter - Line Striping — 08/01/2014

JOB DESCRIPTION Painter - Line Striping **DISTRICT** 8

ENTIRE COUNTIES
Albany, Bronx, Clinton, Columbia, Dutchess, Essex, Franklin, Fulton, Greene, Hamilton, Kings, Montgomery, Nassau, New York, Orange, Putnam, Queens, Rensselaer, Richmond, Rockland, Saratoga, Schenectady, Schoharie, Suffolk, Sullivan, Ulster, Warren, Washington, Westchester

WAGES
Per hour:

Painter (Striping-Highway):	07/01/2014
Striping-Machine Operator*	$ 27.11
Linerman Thermoplastic	$ 32.37

Note: * Includes but is not limited to: Positioning of cones and directing of traffic using hand held devices. Excludes the Driver/Operator of equipment used in the maintenance and protection of traffic safety

Four (4), ten (10) hour days may be worked at straight time during a week.

NOTE - In order to use the '4 Day/10 Hour Work Schedule,' you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30R; additionally, there must be a dispensation of hours in place on the project.

SUPPLEMENTAL BENEFITS
Per hour paid: 07/01/2014
Journeyworker:

Striping-Machine operator	$ 14.18
Linerman Thermoplastic	$ 14.55

OVERTIME PAY
See (B, E, E2, S) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 20) on HOLIDAY PAGE
Overtime: See (5, 8, 11, 12, 15, 16, 17, 20, 21, 22) on HOLIDAY PAGE

8-1456-LS

Painter - Metal Polisher — 08/01/2014

JOB DESCRIPTION Painter - Metal Polisher **DISTRICT** 8

ENTIRE COUNTIES
Albany, Allegany, Bronx, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Kings, Lewis, Livingston, Madison, Monroe, Montgomery, Nassau, New York, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Queens, Rensselaer, Richmond, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Suffolk, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Westchester, Wyoming, Yates

WAGES

	07/01/2014
Metal Polisher	$ 27.15
Metal Polisher**	28.24
Metal Poilsher***	30.65

**Note: Applies on New Construction & complete renovation
*** Note: Applies when working on scaffolds over 34 feet.

SUPPLEMENTAL BENEFITS
Per Hour: 07/01/2014

Journeyworker:
All classification $ 13.61

OVERTIME PAY
See (B, E, E2, P, T) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6, 11, 15, 16, 25, 26) on HOLIDAY PAGE
Overtime: See (5, 6, 9, 11, 15, 16, 25, 26) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wages per hour:
One (1) year term at the following wage rates:

1st	2nd	3rd
$11.00	$12.50	$15.50

Supplentals benefits:
Per hour paid:

1st	2nd	3rd
$ 9.94	$10.31	$10.51

8-8A/28A-MP

Plasterer — 08/01/2014

JOB DESCRIPTION Plasterer — **DISTRICT** 9

ENTIRE COUNTIES
Kings, Nassau, Queens, Suffolk

PARTIAL COUNTIES
New York: Includes work in all Islands in New York City, except Manhattan.

WAGES
Per hour:

	07/01/2014
Building:	
Plasterer/Traditional	$ 35.53

SUPPLEMENTAL BENEFITS
Per hour worked:
Journeyworker $ 21.80

OVERTIME PAY
See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 11, 13, 25, 26) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wages:
(per hour)
(1) year terms at the following % Journeyworkers wage rate.

First year:	1st 6 months	2nd 6 months
	40%	45%
Second year:	1st 6 months	2nd 6 months
	55%	60%
Third year:	1st 6 months	2nd 6 months
	70%	75%

Supplemental Benefits:
(per hour paid):
(1) year term broken down into six month periods:
1st year:

1st six months	$ 8.37
2nd six months	9.35
3rd six months	11.35
4th six months	12.33
5th six months	14.33
6th six months	15.33

9-530-Z1

Plumber 08/01/2014

JOB DESCRIPTION Plumber **DISTRICT** 4

ENTIRE COUNTIES
Nassau, Suffolk

WAGES
Per Hour:

	07/01/2014	05/01/2015
Plumber		
MAINTENANCE ONLY	$ 29.46	$ 29.96

Maintenance: Correction of problem(s)with the existing fixture or group of fixtures, preventive repairs or servicing of said fixtures

SUPPLEMENTAL BENEFITS
SUPPLEMENTAL BENEFITS
Per Hour:

Plumber		
Maintenance	$ 12.05	$ 13.55

OVERTIME PAY
See (B, J) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 15, 16) on HOLIDAY PAGE

4-200 Maintance

Plumber 08/01/2014

JOB DESCRIPTION Plumber **DISTRICT** 4

ENTIRE COUNTIES
Nassau, Suffolk

WAGES
Per Hour: 07/01/2014

Plumber/	
PUMP & TANK	$ 43.24

SUPPLEMENTAL BENEFITS
Per Hour:

Plumber	$ 23.06

OVERTIME PAY
See (B, Q, *V) on OVERTIME PAGE
(V) For Sundays & Holidays if Worked Only

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 16, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
One(1) Year Terms at the Following
Percentage of Journeymans wage:

1st Term	30%
2nd Term	40%
3rd Term	50%
4th Term	60%
5th Term	70%
6th Term	85%

Supplemental Benifits Per Hour:

1st Term	$11.38
2nd Term	$12.01
3rd Term	$12.79
4th Term	$13.16
5th Term	$16.36
6th Term	$19.65

Plumber 08/01/2014

JOB DESCRIPTION Plumber

DISTRICT 4

ENTIRE COUNTIES
Nassau, Suffolk

WAGES
Per Hour:

	07/01/2014	11/01/2014
Plumber	$ 48.48	$ 48.48

SUPPLEMENTAL BENEFITS
Per Hour:

Plumber	$ 34.27	$ 35.77

OVERTIME PAY
See (A, E, Q, *V) on OVERTIME PAGE
CODE "V" is only for SUNDAYS and HOLIDAYS WORKED

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 15, 16, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
One(1) Year Terms at the following percentage of Plumbers Rate:

1st Term	2nd Term	3rd Term	4th Term	5th Term
30%	40%	50%	60%	70%

Supplemental Benefits per hour:

	07/01/2014	11/01/2014
1st Term	$ 20.75	$ 22.25
2nd Term	23.06	24.56
3rd Term	24.43	25.93
4th Term	25.92	27.42
5th Term	27.56	29.00

4-200

Roofer 08/01/2014

JOB DESCRIPTION Roofer

DISTRICT 4

ENTIRE COUNTIES
Nassau, Suffolk

WAGES
Per Hour

	07/01/2014	10/01/2014
ROOFER/Waterproofer		
Total Wage to be Paid	$ 43.00	Additional $1.50 to be Added per Hour***
"Base" Wage	$ 39.00**	

***NOTE: Additional to be allocated for Wage or Supplement

SUPPLEMENTAL BENEFITS
Per Hour:

ROOFER/Waterproofer	$ 25.61	$ 25.61

OVERTIME PAY
Per Hour:
NEW ROOF SEE (B,E,Q)
RE-ROOF SEE (B,E,E2,Q)
NOTE:** Overtime Pay to be calculated on "BASE" Wage then add $4.00.
(Example: $39.00 x time and one half = $58.50 + $4.00 = $62.50)

HOLIDAY
Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6, 13, 16, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
(1) Year terms at the following Percentage of Roofers/Waterproofers Wage.

1st	2nd	3rd	4th
40%	50%	70%	80%

Supplemental Benefits per hour:

	07/01/2014	10/01/2014
1st Term	$ 7.20	$ 7.20
2nd Term	8.99	8.99
3rd Term	12.58	12.98
4th Term	14.37	14.37

4-154

Sheetmetal Worker 08/01/2014

JOB DESCRIPTION Sheetmetal Worker **DISTRICT** 4

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk

WAGES

Per Hour:	07/01/2014
Sheetmetal Worker	$ 50.67
Temporary Operation or Maintenace of Fans	40.42

SUPPLEMENTAL BENEFITS

Per Hour:	
Sheetmetal Worker	$ 39.91
Maintenance Worker	39.91

OVERTIME PAY
See (A, E, E2, Q, V) on OVERTIME PAGE
For Maintenance See Codes B,E, Q & V

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 11, 15, 16, 25, 26) on HOLIDAY PAGE

REGISTERED APPRENTICES
Per Hour:Wages

Six(6) Month Terms As Follows:

1st Term	$ 14.35
2nd Term	17.72
3rd Term	22.12
4th Term	24.89
5th Term	26.24
6th Term	28.45
7th Term	34.53
8th Term	37.23
9th Term	40.34

Per Hour: Supplemental Benifits

1st Term	$ 5.50
2nd Term	14.80
3rd Term	21.51
4th Term	23.31
5th Term	24.94
6th Term	27.04
7th Term	30.60
8th Term	31.77
9th Term	32.94

Sheetmetal Worker — 08/01/2014

JOB DESCRIPTION Sheetmetal Worker

DISTRICT 4

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Rockland, Suffolk, Westchester

WAGES

Per Hour:	07/01/2014	08/01/2014
Sign Erector	$ 44.20	$ 45.60

NOTE: Overhead Highway Signs and Structurally Supported Signs(See IRON WORKER CLASS)

SUPPLEMENTAL BENEFITS

Per Hour:	07/01/2014	08/01/2014
Sign Erector	$ 38.22	$ 40.25

OVERTIME PAY
See (A, F, S) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6, 10, 11, 12, 16, 25) on HOLIDAY PAGE
Overtime: See (5, 6, 10, 11, 12, 16, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
Per Hour:
6 month Terms at the following percentage of Sign Erectors wage rate:

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
35%	40%	45%	50%	55%	60%	65%	70%	75%	80%

SUPPLEMENTAL BENEFITS
Per Hour:

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
$11.08	$12.55	$14.04	$15.51	$21.93	$23.86	$26.46	$28.45	$30.42	$32.40

4-137-SE

Steamfitter — 08/01/2014

JOB DESCRIPTION Steamfitter

DISTRICT 4

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk

WAGES

Per Hour:	07/01/2014
Steam/Sprinkler Fitter	$ 58.81
Temporary Heat & AC	$ 44.71

NOTE: Add 30% to Hourly Wage for "Contracting Agency" Mandated Off Shift Work.

SUPPLEMENTAL BENEFITS
Per Hour:

Steam/Sprinkler Fitter	$ 45.67
Temporary Heat & AC	$ 37.26

OVERTIME PAY
See (C, *D, O, V) on OVERTIME PAGE

(*D) On all HVAC and Mechanical contracts that do not excedd $15,000,000. and on all fire protection/sprinklet contracts that do not exceed $1,500,000.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 11, 15, 16, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
1 year Terms at the Following:

WAGES per hour:

1st Term	2nd Term	3rd Term	4th Term	5th Term
$ 23.56	$ 29.44	$ 38.25	$ 47.06	$ 50.00

SUPPLEMENTAL BENEFIT
Per Hour:

1st Term	2nd Term	3rd Term	4th Term	5th Term
$ 18.79	$ 23.29	$ 29.99	$ 36.71	$ 38.95

4-638A-StmSpFtr

Steamfitter 08/01/2014

JOB DESCRIPTION Steamfitter **DISTRICT** 4

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk

WAGES

Per Hour:	07/01/2014	01/01/2015 Additional
AC Service/Heat Service Steamfitter Maintenance	$ 38.30	$ 0.75*

Refrigeration, A/C, Oil Burner and Stoker Service and Repair.
Refrigeration Compressor installation up to 5hp (combined).
Air Condition / Heating Compressor installation up to 10hp (combined).

(*)To be allocated at a later date

SUPPLEMENTAL BENEFITS
Per Hour

AC Service/Heat Service Steamfitter Maintenance	$ 9.70

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6, 11, 15, 25, 26) on HOLIDAY PAGE

4-638B-StmFtrRef

Teamster - Asphalt Delivery 08/01/2014

JOB DESCRIPTION Teamster - Asphalt Delivery **DISTRICT** 4

ENTIRE COUNTIES
Nassau, Suffolk

WAGES
Per Hour:

Heavy Construction Work:
Shall include the supply of Asphalt for construction, improvement and modification of all or any part of Streets, Highways, Bridges, Tunnels,Railroads, Canals, Dams, Airports, Schools, Power Generation Plants, where distance between project and asphalt plant is not more than 50 miles.

TRUCK DRIVER	07/01/2014
Asphalt Delivery	$ 35.105

Light Construction Work:

Shall include the supply of Asphalt for construction of Single & Multi Family Homes, Town Houses, Apartment Buildings, including Driveways, Streets and Curbs within those projects. Parking Lots, Office Buildings, where distance between project and asphalt plant is not more than 50 miles.

TRUCK DRIVER

	07/01/2014
Asphalt Delivery	$ 28.89

SUPPLEMENTAL BENEFITS
Per Hour:

Heavy Construction Work
TRUCK DRIVER

	07/01/2014
Asphalt Delivery	$40.1825

Light Construction Work
TRUCK DRIVER

	07/01/2014
Asphalt Delivery	$11.55

OVERTIME PAY
See (B, *B2, E, **I, P, ***R, ****U) on OVERTIME PAGE
(NOTE) PREMIUM PAY of 25% on straight time hours for New York State D.O.T. and or other GOVERNMENTAL MANDATED off shift work.
Note: (B,E,P,T&*U) Apply to Heavy Construction.
Note: (B2,I,T&*U) Apply to Light Construction.
Note: (*U) Only applies after 8 hours worked on holiday.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, *16, **25) on HOLIDAY PAGE
NOTE:(*16) Paid at Double if Worked; (**25) Paid at Double if Worked.

4-282

Teamster - Building 08/01/2014

JOB DESCRIPTION Teamster - Building **DISTRICT** 4

ENTIRE COUNTIES
Nassau, Suffolk

WAGES
Per Hour:
Truck Driver (Building Demolition & Debris)

	07/01/2014
Trailers	$ 29.98
Straight Jobs	$ 29.68

SUPPLEMENTAL BENEFITS
Per Hour:

All Classifications

	07/01/2014
	$ 31.34

OVERTIME PAY
See (B, E, S1) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 11, 12, 15, 25, 26) on HOLIDAY PAGE

4-282

Teamster - Delivery of Concrete 08/01/2014

JOB DESCRIPTION Teamster - Delivery of Concrete **DISTRICT** 4

ENTIRE COUNTIES
Nassau, Suffolk

WAGES
Per Hour:

Heavy Construction Work:
Shall include the supply of Ready-Mix Concrete for construction, improvment and modification of all or any part of Streets, Highways, Bridges, Tunnels, Railroads, Canals, Dams, Airports, Schools & Power Generation Plants, where distance between project and asphalt plant is not more than 50 miles.

TRUCK DRIVER

	07/01/2014
Concrete Delivery	$ 37.065

Light Construction Work:
Shall include the supply of Ready-Mix Concrete for construction of Single & Multi Family Homes, Town Houses, Apartment Buildings, including Driveways, Streets and Curbs within those projects. Parking Lots and Office Buildings, where distance between project and asphalt plant is not more than 50 miles.

TRUCK DRIVER

	07/01/2014
Concrete Delivery	$ 33.765

SUPPLEMENTAL BENEFITS
Per Hour:

	07/01/2014
Heavy Construction Work	
Concrete Delivery	$ 37.125
Light Construction Work	07/01/2014
Concrete Delivery	$ 11.525

OVERTIME PAY
NOTE: Heavy Construction:B2,I
Light Construction:B,E,P

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, *16, **25) on HOLIDAY PAGE
NOTE:(*16) Paid at Double if Worked. (**25) Paid at Double if Worked.

4-282ns

Teamster - Heavy&Highway **08/01/2014**

JOB DESCRIPTION Teamster - Heavy&Highway **DISTRICT** 4

ENTIRE COUNTIES
Nassau, Suffolk

WAGES
Per Hour:

Heavy Construction Work:
Shall include the construction, improvement or modification of all or any part of streets, highways, Bridges, Tunnels, Railroads, Canals, Dams, Airports, Schools, Power Generation Plants.

	07/01/2014
Site Excavating (Chauffeurs)	$ 35.105

Light Construction Work:
Shall include the construction, improvment and modification of Single & Multi Family Homes, Town Houses, Apartment Buildings, including driveways, Streets and Curbs within those projects. Parking Lots and Office Buildings.

	07/01/2014
Site Excavating (Chauffeurs)	$ 28.89

SUPPLEMENTAL BENEFITS
Per Hour: 07/01/2014

Heavy Construction Work
Chauffeurs $ 40.1825

Light Construction Work

Chauffers $ 11.55

OVERTIME PAY
See (B, *B2, E, **I, P, ***R, ****U) on OVERTIME PAGE
(NOTE) PREMIUM PAY of 25% on straight time hours for NEW YORK STATE D.O.T. and or other GOVERMENTAL MANDATED off shift work.
Note: (B,E,P,T & *U) Apply to Heavy Construction.
Note: (B2,I,T & *U) Apply to Light Construction.
Note: (*U) Only applies after 8 hours work on holiday

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, *16, **25) on HOLIDAY PAGE
NOTE:(*16) Paid at Double if Worked. (**25) Paid at Double if Worked.

4-282

Welder 08/01/2014

JOB DESCRIPTION Welder **DISTRICT** 1

ENTIRE COUNTIES
Albany, Allegany, Bronx, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Kings, Lewis, Livingston, Madison, Monroe, Montgomery, Nassau, New York, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Queens, Rensselaer, Richmond, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Suffolk, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Westchester, Wyoming, Yates

WAGES
Per hour 07/01/2014

Welder (To be paid the same rate of the mechanic performing the work)

OVERTIME PAY

HOLIDAY

1-As Per Trade

Overtime Codes

Following is an explanation of the code(s) listed in the OVERTIME section of each classification contained in the attached schedule. Additional requirements may also be listed in the HOLIDAY section.

(B1)	Time and one half of the hourly rate for the 9th & 10th hours week days and the 1st 8 hours on Saturday. Double the hourly rate for all additional hours
(A)	Time and one half of the hourly rate after 7 hours per day
(AA)	Time and one half of the hourly rate after 7 and one half hours per day
(E3)	Between November 1st and March 3rd Saturday may be used as a make-up day at straight time when a day is lost during that week due to inclement weather, provided a given employee has worked between 16 and 32 hours that week
(B)	Time and one half of the hourly rate after 8 hours per day
(S1)	Two and one half times the hourly rate the first 8 hours on Sunday or Holidays One and one half times the hourly rate all additional hours.
(E5)	Double time after 8 hours on Saturdays
(B2)	Time and one half of the hourly rate after 40 hours per week
(C)	Double the hourly rate after 7 hours per day
(C1)	Double the hourly rate after 7 and one half hours per day
(D)	Double the hourly rate after 8 hours per day
(D1)	Double the hourly rate after 9 hours per day
(E)	Time and one half of the hourly rate on Saturday
(E1)	Time and one half 1st 4 hours on Saturday Double the hourly rate all additional Saturday hours
(E2)	Saturday may be used as a make-up day at straight time when a day is lost during that week due to inclement weather
(E4)	Saturday and Sunday may be used as a make-up day at straight time when a day is lost during that week due to inclement weather
(F)	Time and one half of the hourly rate on Saturday and Sunday
(G)	Time and one half of the hourly rate on Saturday and Holidays
(H)	Time and one half of the hourly rate on Saturday, Sunday, and Holidays
(I)	Time and one half of the hourly rate on Sunday
(J)	Time and one half of the hourly rate on Sunday and Holidays
(K)	Time and one half of the hourly rate on Holidays
(L)	Double the hourly rate on Saturday
(M)	Double the hourly rate on Saturday and Sunday
(N)	Double the hourly rate on Saturday and Holidays
(O)	Double the hourly rate on Saturday, Sunday, and Holidays
(P)	Double the hourly rate on Sunday
(Q)	Double the hourly rate on Sunday and Holidays
(R)	Double the hourly rate on Holidays
(S)	Two and one half times the hourly rate for Holidays, if worked

(T) Triple the hourly rate for Holidays, if worked

(U) Four times the hourly rate for Holidays, if worked

(V) Including benefits at SAME PREMIUM as shown for overtime

(W) Time and one half for benefits on all overtime hours.

NOTE:BENEFITS are PER HOUR WORKED,for each hour worked, unless otherwise noted

Holiday Codes

PAID Holidays:

Paid Holidays are days for which an eligible employee receives a regular day's pay, but is not required to perform work. If an employee works on a day listed as a paid holiday, this remuneration is in addition to payment of the required prevailing rate for the work actually performed.

OVERTIME Holiday Pay:

Overtime holiday pay is the premium pay that is required for work performed on specified holidays. It is only required where the employee actually performs work on such holidays. The applicable holidays are listed under HOLIDAYS: OVERTIME. The required rate of pay for these covered holidays can be found in the OVERTIME PAY section listings for each classification.

Following is an explanation of the code(s) listed in the HOLIDAY section of each classification contained in the attached schedule. The Holidays as listed below are to be paid at the wage rates at which the employee is normally classified.

(1)	None
(2)	Labor Day
(3)	Memorial Day and Labor Day
(4)	Memorial Day and July 4th
(5)	Memorial Day, July 4th, and Labor Day
(6)	New Year's, Thanksgiving, and Christmas
(7)	Lincoln's Birthday, Washington's Birthday, and Veterans Day
(8)	Good Friday
(9)	Lincoln's Birthday
(10)	Washington's Birthday
(11)	Columbus Day
(12)	Election Day
(13)	Presidential Election Day
(14)	1/2 Day on Presidential Election Day
(15)	Veterans Day
(16)	Day after Thanksgiving
(17)	July 4th
(18)	1/2 Day before Christmas
(19)	1/2 Day before New Years
(20)	Thanksgiving
(21)	New Year's Day
(22)	Christmas
(23)	Day before Christmas
(24)	Day before New Year's
(25)	Presidents' Day
(26)	Martin Luther King, Jr. Day
(27)	Memorial Day

New York State Department of Labor - Bureau of Public Work
State Office Building Campus
Building 12 - Room 130
Albany, New York 12240

REQUEST FOR WAGE AND SUPPLEMENT INFORMATION

As Required by Articles 8 and 9 of the NYS Labor Law

Fax (518) 485-1870 or mail this form for new schedules or for determination for additional occupations.

This Form Must Be Typed

Submitted By: (Check Only One) ☐ Contracting Agency ☐ Architect or Engineering Firm ☐ Public Work District Office Date:

A. Public Work Contract to be let by: (Enter Data Pertaining to Contracting/Public Agency)

1. Name and complete address ☐ (Check if new or change)

Telephone: ( ) Fax: ( )
E-Mail:

2. NY State Units (see Item 5)

- ☐ 01 DOT
- ☐ 02 OGS
- ☐ 03 Dormitory Authority
- ☐ 04 State University Construction Fund
- ☐ 05 Mental Hygiene Facilities Corp.
- ☐ 06 OTHER N.Y. STATE UNIT
- ☐ 07 City
- ☐ 08 Local School District
- ☐ 09 Special Local District, i.e., Fire, Sewer, Water District
- ☐ 10 Village
- ☐ 11 Town
- ☐ 12 County
- ☐ 13 Other Non-N.Y. State (Describe)

3. SEND REPLY TO ☐ check if new or change)
Name and complete address:

Telephone:( ) Fax: ( )
E-Mail:

4. SERVICE REQUIRED. Check appropriate box and provide project information.

- ☐ New Schedule of Wages and Supplements.
  APPROXIMATE BID DATE :
- ☐ Additional Occupation and/or Redetermination

PRC NUMBER ISSUED PREVIOUSLY FOR THIS PROJECT :

OFFICE USE ONLY

B. PROJECT PARTICULARS

5. Project Title _____
Description of Work _____
_____
Contract Identification Number _____
Note: For NYS units, the OSC Contract No. _____

6. Location of Project:
Location on Site _____
Route No/Street Address _____
Village or City _____
Town _____
County _____

7. Nature of Project - Check One:

- ☐ 1. New Building
- ☐ 2. Addition to Existing Structure
- ☐ 3. Heavy and Highway Construction (New and Repair)
- ☐ 4. New Sewer or Waterline
- ☐ 5. Other New Construction (Explain)
- ☐ 6. Other Reconstruction, Maintenance, Repair or Alteration
- ☐ 7. Demolition
- ☐ 8. Building Service Contract

8. OCCUPATION FOR PROJECT :

- ☐ Construction (Building, Heavy Highway/Sewer/Water)
- ☐ Tunnel
- ☐ Residential
- ☐ Landscape Maintenance
- ☐ Elevator maintenance
- ☐ Exterminators, Fumigators
- ☐ Fire Safety Director, NYC Only
- ☐ Guards, Watchmen
- ☐ Janitors, Porters, Cleaners, Elevator Operators
- ☐ Moving furniture and equipment
- ☐ Trash and refuse removal
- ☐ Window cleaners
- ☐ Other (Describe)

9. Has this project been reviewed for compliance with the Wicks Law involving separate bidding? YES ☐ NO ☐

Name and Title of Requester

Signature

NEW YORK STATE DEPARTMENT OF LABOR
Bureau of Public Work - Debarment List

LIST OF EMPLOYERS INELIGIBLE TO BID ON OR BE AWARDED ANY PUBLIC WORK CONTRACT

Under Article 8 and Article 9 of the NYS Labor Law, a contractor, sub-contractor and/or its successor shall be debarred and ineligible to submit a bid on or be awarded any public work or public building service contract/sub-contract with the state, any municipal corporation or public body for a period of five (5) years from the date of debarment when:

- Two (2) final determinations have been rendered within any consecutive six-year (6) period determining that such contractor, sub-contractor and/or its successor has WILLFULLY failed to pay the prevailing wage and/or supplements
- One (1) final determination involves falsification of payroll records or the kickback of wages and/or supplements

NOTE: The agency issuing the determination and providing the information, is denoted under the heading 'Fiscal Officer'. DOL = NYS Dept. of Labor; NYC = New York City Comptroller's Office; AG = NYS Attorney General's Office; DA = County District Attorney's Office.

A list of those barred from bidding, or being awarded, any public work contract or subcontract with the State, under section 141-b of the Workers' Compensation Law, may be obtained at the following link, on the NYS DOL Website:

https://dbr.labor.state.ny.us/EDList/searchPage.do

NYSDOL Bureau of Public Work Debarment List 08/19/2014

Article 8

DOL	DOL		4618 FOSTER AVE LLC		C/O KAHAN & KAHAN 225 BROADWAY-SUITE 715NEW YORK NY 10007	02/05/2013	02/05/2018
DOL	NYC		A & T IRON WORKS INC		25 CLIFF STREET NEW ROCHELLE NY 10801	12/21/2009	12/21/2014
DOL	DOL	*****0711	A ULIANO & SON LTD		22 GRIFFEN COURT MILLER PLACE NY 11746	10/26/2010	10/26/2015
DOL	DOL		A ULIANO CONSTRUCTION		22 GRIFFEN COURT MILLER PLACE NY 11746	10/26/2010	10/26/2015
DOL	NYC	*****4486	ABBEY PAINTING CORP		21107 28TH AVENUE BAYSIDE NY 11360	07/02/2012	07/02/2017
DOL	DOL	*****9095	ABDO TILE CO		6179 EAST MOLLOY ROAD EAST SYRACUSE NY 13057	06/25/2010	07/02/2017
DOL	DOL	*****9095	ABDO TILE COMPANY		6179 EAST MOLLOY ROAD EAST SYRACUSE NY 13057	06/25/2010	07/02/2017
DOL	DOL	*****8488	ABELCRAFT OF NEW YORK CORP		640 ASHFORD AVENUE ARDSLEY NY 10502	08/27/2013	08/27/2018
DOL	DOL	*****1219	ABSOLUTE GENERAL CONTRACTING INC		1229 AVENUE U BROOKLYN NY 11229	01/28/2013	01/28/2018
DOL	DOL	*****4539	ACCOMPLISHED WALL SYSTEMS INC		112 OSCAWANA HEIGHTS ROAD PUTNAM VALLEY NY 10542	08/27/2013	08/27/2018
DOL	DOL	*****8018	ACCURATE MECHANICAL LLC		9547 BUSTLETON AVENUE PHILADELPHIA PA 19115	02/05/2014	02/05/2019
DOL	DOL		ACCURATE MECHANICAL OF PHILADELPHIA LLC		9547 BUSTLETON AVENUE PHILADELPHIA PA 19115	02/05/2014	02/05/2019
DOL	DOL		ADAM A CEMERYS		2718 CURRY ROAD SCHENECTADY NY 12303	07/08/2010	07/08/2015
DOL	DOL	*****7584	ADAM'S FLOOR COVERING LLC		2718 CURRY ROAD SCHENECTADY NY 12303	07/08/2010	02/15/2017
DOL	DOL		ADESUWA UWUIGBE		P O BOX 21-1022 BROOKLYN NY 11221	05/16/2012	05/16/2017
DOL	NYC		ADRIANA SELA	C/O COLONIAL ROOFING COMPANY INC	247 48TH STREET BROOKLYN NY 11220	02/05/2014	02/05/2019
DOL	DOL		AFFORDABLE PAINTING PLUS		367 GREEVES ROAD NEW HAMPTON NY 10958	10/01/2010	10/01/2015
DOL	DOL	*****2538	AGG MASONRY INC		160 72ND ST - SUITE 721 BROOKLYN NY 11209	03/19/2013	03/19/2018
DOL	DOL		ALBERT CASEY		43-28 54TH STREET WOODSIDE NY 11377	07/01/2011	07/01/2016
DOL	DOL		ALEJANDRO MATOS		C/O SEVEN STAR ELECTRICAL 23-24 STEINWAY STREETASTORIA NY 11105	06/27/2011	06/27/2016
DOL	DOL		ALISHER KARIMOV		C/O AGG MASONRY INC 7105 3RD AVENUEBROOKLYN NY 11209	03/19/2013	03/19/2018
DOL	DOL	*****8740	ALLSTATE ENVIRONMENTAL CORP		C/O JOSE MONTAS 27 BUTLER PLACEYONKERS NY 10710	03/18/2011	03/15/2017
DOL	DOL	*****8534	ALPHA INTERIORS INC		513 ACORN STREET/ SUITE C DEER PARK NY 11729	05/27/2010	05/27/2015
DOL	DOL	*****4274	AMERICAN STEEL MECHANICAL INC		693 PAINTER STREET MEDIA PA 19063	02/20/2013	02/20/2018
DOL	NYC		ANDERSON LOPEZ		670 SOUTHERN BLVD BRONX NY 10455	06/14/2011	06/14/2016
DOL	DOL		ANDREW DIPAUL		C/O CONSOLIDATED INDUSTRI 2051 ROUTE 44/55MODENA NY 12548	12/11/2012	12/11/2017
DOL	NYC		ANDRZEJ WROBEL		24 CONGRESS LANE SOUTH RIVER NJ 08882	05/01/2013	05/01/2018
DOL	AG		ANTHONY BRANCA		700 SUMMER STREET STAMFORD CT	11/24/2009	11/24/2014
DOL	DA		ANTHONY CARDINALE		58-48 59TH STREET MASPETH NY 11378	05/16/2012	05/16/2017
DOL	DOL		ANTHONY POSELLA		30 GLEN HOLLOW ROCHESTER NY 14622	10/19/2009	10/19/2014
DOL	DOL		ANTHONY ULIANO		22 GRIFFEN COURT MILLER PLACE NY 11746	10/26/2010	10/26/2015
DOL	DOL	*****3020	APCO CONTRACTING CORP		24 SOUTH MARYLAND AVENUE PORT WASHINGTON NY 11050	09/24/2012	09/24/2017
DOL	DOL	*****3219	APOLLO CONSTRUCTION SERVICES CORP	APOLLO PAINTING CO	157 TIBBETTS ROAD YONKERS NY 10705	03/12/2014	03/12/2019

DOL	DOL		APOLLO PAINTING CO		157 TIBBETTS ROAD YONKERS NY 10705	03/12/2014	03/12/2019
DOL	DOL	*****3295	APOLLO PAINTING CORP		3 ALAN B SHEPART PLACE YONKERS NY 10705	03/12/2014	03/12/2019
DOL	AG	*****0194	APPLIED CONSTRUCTION INC		46 RUGBY ROAD WESTBURY NY 11590	11/20/2013	11/20/2018
DOL	NYC	*****8403	AQUA JET PAINTING CORP		10 VIKING DRIVE WEST ISLIP NY 11795	04/16/2014	04/16/2019
DOL	DOL	*****9336	ARTIERI SPECIALTIES LLC	SWITZER SALES	107 STEVENS STREET LOCKPORT NY 14094	11/04/2009	11/04/2014
DOL	DOL	*****3953	ASCPAPE LANDSCAPE & CONSTRUCTION CORP		634 ROUTE 303 BLAUVELT NY 10913	07/26/2012	11/19/2018
DOL	DOL	*****2534	B & B CONCRETE CONTRACTORS INC		55 OLD TURNPIKE ROAD SUITE 612NANUET NY 10954	02/04/2011	02/04/2016
DOL	NYC		BASIL ROMEO		243-03 137TH AVENUE ROSEDALE NY 11422	03/25/2010	03/25/2015
DOL	DOL	*****2294	BEDELL CONTRACTING CORP		2 TINA LANE HOPEWELL JUNCTION NY 12533	01/06/2012	01/06/2017
DOL	DOL		BENNY VIGLIOTTI		C/O LUVIN CONSTRUCTION CO P O BOX 357CARLE PLACE NY 11514	03/15/2010	03/15/2015
DOL	DOL	*****6999	BEST ROOFING OF NEW JERSEY LLC		30 MIDLAND AVENUE WALLINGTON NJ 07057	11/05/2010	11/05/2015
DOL	DOL		BEVERLY F WILLIAMS		1238 PRESIDENT STREET BROOKLYN NY 11225	11/18/2013	11/18/2018
DOL	DOL		BIAGIO CANTISANI		200 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	05/04/2017
DOL	NYC	*****8377	BOSPHORUS CONSTRUCTION CORPORATION		3817 KINGS HIGHWAY-STE 1D BROOKLYN NY 11234	06/30/2010	06/30/2015
DOL	DOL		BRIAN HOXIE		2219 VALLEY DRIVE SYRACUSE NY 13207	12/04/2009	12/04/2014
DOL	DOL	*****6156	C & J LANDSCAPING & MAINTENANCE INC		520 PINE HILL ROAD CHESTER NY 10940	06/23/2014	06/23/2019
DOL	DOL		CANTISANI & ASSOCIATES LTD		442 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	05/04/2017
DOL	DOL		CANTISANI HOLDING LLC		220 FERRIS AVENUE WHITE PLAINS NY 10603	05/04/2012	05/04/2017
DOL	DOL	*****1143	CARMODY BUILDING CORP		442 ARMONK ROAD MOUNT KISCO NY 10549	05/04/2012	05/04/2017
DOL	DOL	*****3368	CARMODY CONCRETE CORP		442 ARMONK ROAD MOUNT KISCO NY 10549	12/04/2009	05/04/2017
DOL	DOL		CARMODY CONTRACTING CORP		220 FERRIS AVENUE WHITE PLAINS NY 10603	05/04/2012	05/04/2017
DOL	DOL	*****6215	CARMODY CONTRACTING INC		220 FERRIS AVENUE WHITE PLAINS NY 10603	05/04/2012	05/04/2017
DOL	DOL		CARMODY ENTERPRISES LTD		220 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	05/04/2017
DOL	DOL	*****3812	CARMODY INC		442 ARMONK ROAD MOUNT KISCO NY 10549	12/04/2009	05/04/2017
DOL	DOL	*****3812	CARMODY INDUSTRIES INC		442 FERRIS AVENUE WHITE PLAINS NY 10603	05/04/2012	05/04/2017
DOL	DOL		CARMODY MAINTENANCE CORP		105 KISCO AVENUE MOUNT KISCO NY 10549	05/04/2012	05/04/2017
DOL	DOL	*****0324	CARMODY MASONRY CORP		442 ARMONK ROAD MOUNT KISKO NY 10549	12/04/2009	05/04/2017
DOL	DOL	*****3812	CARMODY"2" INC		220 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	05/04/2017
DOL	NYC	*****9172	CASSIDY EXCAVATING INC		14 RAILROAD AVENUE VALHALLA NY 10595	05/15/2014	05/15/2019
DOL	DOL	*****9721	CATENARY CONSTRUCTION CORP		112 HUDSON AVENUE ROCHESTER NY 14605	02/14/2006	10/20/2014
DOL	DOL	*****1683	CATONE CONSTRUCTION COMPANY INC		294 ALPINE ROAD ROCHESTER NY 14423	03/09/2012	03/09/2017
DOL	DOL		CATONE ENTERPRISES INC		225 DAKOTA STREET ROCHESTER NY 14423	03/09/2012	03/09/2017
DOL	DOL	*****8530	CAZ CONTRACTING CORP		37-11 35TH AVENUE LONG ISLAND CITY NY 11101	08/26/2013	08/26/2018
DOL	DOL	*****7924	CBI CONTRACTING INCORPORATED		2081 JACKSON AVENUE COPIAGUE NY 11726	06/03/2010	06/03/2015
DOL	DOL	*****5556	CERTIFIED INSTALLERS INC		113 N MAPLE AVENUE GREENSBURG PA 15601	02/21/2013	02/21/2018
DOL	NYC		CHARLES CASSIDY JR		14 RAILROAD AVENUE VALHALLA NY 10595	05/15/2014	05/15/2019
DOL	DOL		CHARLES OKRASKI		67 WARD ROAD SALT POINT NY 12578	01/21/2011	01/21/2016

DOL	DOL		CHARLES RIBAUDO		513 ACORN ST - SUITE C DEER PARK NY 11729	05/27/2010	05/27/2015
DOL	DOL	*****1416	CHEROMINO CONTROL GROUP LLC		61 WILLET ST - SUITE 14 PASSAIC NJ 07055	12/03/2009	02/23/2017
DOL	DOL		CHRIS SAVOURY		44 THIELLS-MT IVY ROAD POMONA NY 10970	10/14/2011	10/14/2016
DOL	DOL		CHRIST R PAPAS		C/O TRAC CONSTRUCTION INC 9091 ERIE ROADANGOLA NY 14006	02/03/2011	02/03/2016
DOL	DOL		CHRISTOF PREZBYL		2 TINA LANE HOPEWELL JUNCTION NY 12533	01/06/2012	01/06/2017
DOL	DOL		CITY GENERAL BUILDERS INC		131 MELROSE STREET BROOKLYN NY 11206	03/02/2010	03/02/2015
DOL	DOL	*****7086	CITY GENERAL IRON WORKS INC		131 MELROSE STREET BROOKLYN NY 11206	03/02/2010	03/02/2015
DOL	DOL	*****3360	CITY LIMITS GROUP INC		2279 HOLLERS AVENUE BRONX NY 10475	01/07/2014	01/07/2019
DOL	NYC	*****1768	COFIRE PAVING CORPORATION		120-30 28TH AVENUE FLUSHING NY 11354	01/14/2011	01/14/2016
DOL	NYC	*****2905	COLONIAL ROOFING COMPANY INC		247 48TH STREET BROOKLYN NY 11220	02/05/2014	02/05/2019
DOL	NYC	*****3182	COLORTECH INC		5990 58TH AVENUE MASPETH NY 11378	11/18/2013	11/18/2018
DOL	DOL	*****8342	CONKLIN PORTFOLIO LLC		60 COLONIAL ROAD STILLWATER NY 12170	02/15/2011	02/15/2016
DOL	DOL	*****2703	CONKLIN'S TECH-MECHANICAL INC		5 PARKER AVENUE POUGHKEEPSIE NY 12601	03/25/2014	03/25/2019
DOL	DOL	*****4175	CONSOLIDATED INDUSTRIAL SERVICES INC		2051 ROUTE 44/55 MODENA NY 12548	12/11/2012	01/28/2018
DOL	DOL		CONSTANTINOS ZERVAS		37-11 35TH AVENUE LONG ISLAND CITY NY 11101	08/26/2013	08/26/2018
DOL	DOL	*****5740	CORTLAND GLASS COMPANY INC		336 TOMPKINS STREET CORTLAND NY 13045	10/21/2010	07/15/2016
DOL	DOL	*****1804	CUSTOM GARDEN LANDSCAPING INC		283 NORTH MIDDLETOWN ROAD PEARL RIVER NY 10965	09/28/2009	09/28/2014
DOL	DOL	*****0810	D & G PAINTING & DECORATING INC		53 LITTLE COLLABAR ROAD MONTGOMERY NY 12549	04/19/2012	04/19/2017
DOL	DOL		DANIEL CELLUCCI ELECTRIC		17 SALISBURY STREET GRAFTON MA 01519	06/02/2010	06/02/2015
DOL	DOL	*****7129	DANIEL T CELLUCCI	DANIEL CELLUCCI ELECTRIC	17 SALISBURY STREET GRAFTON MA 01519	06/02/2010	06/02/2015
DOL	NYC		DAWN AVILA AKA DAWN BECHTOLD		1ST FLOOR STORE FRONT 88-10 LITTLE NECK PARKWAYFLORAL PARK NY 11001	06/24/2014	06/24/2019
DOL	NYC		DAWN BECHTOLD AKA DAWN AVILA		1ST FLOOR STORE FRONT 88-10 LITTLE NECK PARKWAYFLORAL PARK NY 11001	06/24/2014	06/24/2019
DOL	DOL		DEAN ROBBINS III		212 OXFORD WAY SCHENECTADY NY 12309	12/11/2012	09/16/2018
DOL	NYC	*****3865	DECOMA BUILDING CORPORATION		134 EVERGREEN PL/STE 101 EAST ORANGE NJ 07018	12/30/2013	12/30/2018
DOL	DOL	*****2311	DELCON CONSTRUCTION CORP		220 WHITE PLAINS ROAD TARRYTOWN NY 10591	08/27/2009	08/27/2014
DOL	DOL	*****1446	DELTA CONTRACTING PAINTING AND DECORATING INC		437 SUNRISE HIGHWAY WEST BABYLON NY 11707	08/12/2013	08/12/2018
DOL	DOL	*****3538	DELTA CONTRACTING PAINTING AND DESIGN INC		75 MCCULLOCH DRIVE DIX HILLS NY 11746	10/19/2010	08/12/2018
DOL	DOL		DEMETRIOS KOUTSOURAS		530 BEECH STREET NEW HYDE PARK NY 11040	07/02/2012	07/02/2017
DOL	DOL	*****9868	DESANTIS ENTERPRISES		161 OSWEGO RIVER ROAD PHOENIX NY 13135	09/24/2013	11/18/2018
DOL	NYC	*****6234	DEWATERS PLUMBING AND HEATING LLC		30 COLUMBUS CIRCLE EASTCHESTER NY 10709	08/21/2012	08/21/2017
DOL	DOL	*****9252	DI BERNARDO TILE AND MARBLE CO INC		15 WALKER WAY ALBANY NY 12205	03/21/2014	03/21/2019
DOL	DOL		DIANE DEAVER		731 WARWICK TURNPIKE HEWITT NJ 07421	06/25/2012	12/11/2017
DOL	DOL		DONALD NOWAK		10 GABY LANE CHEEKTOWAGA NY 14227	10/15/2009	10/15/2014

DOL	DOL		DORIS SKODA		C/O APCO CONTRACTING CORP 24 SOUTH MARYLAND AVENUEPORT WASHINGTON NY 11050	09/24/2012	09/24/2017
DOL	DOL		DRAGOLJUB RADOJEVIC		61 WILLET ST - SUITE 14 PASSAIC NJ 07055	12/03/2009	07/09/2015
DOL	DOL	*****6982	DUFOUR GROUP INC	DUFOUR MASONRY	353 WEST 56TH STREET #7M NEW YORK NY 10019	06/10/2014	06/10/2019
DOL	DOL		DUFOUR MASONRY		353 WEST 56TH ST #7M NEW YORK NY 10019	06/10/2014	06/10/2019
DOL	DOL		DUFOUR MASONRY & RESTORATION INC		353 WEST 56TH STREET #7M NEW YORK NY 10019	06/10/2014	06/10/2019
DOL	DOL	*****5840	DYNA CONTRACTING INC		363 88TH STREET BROOKLYN NY 11209	11/18/2013	11/18/2018
DOL	NYC	*****6176	E N E L ELECTRICAL CORP		1107 MCDONALD AVENUE BROOKLYN NY 11230	07/30/2010	07/30/2015
DOL	DOL		EARL GALBREATH		640 ASHFORD AVENUE ARDSLEY NY 10502	08/27/2013	08/27/2018
DOL	DOL	*****1496	EAST COAST DRYWALL INC		1238 PRESIDENT STREET BROOKLYN NY 11225	11/18/2013	11/18/2018
DOL	DOL	*****8011	ECOA CLEANING CONTRACTORS INC		P O BOX 21-1022 BROOKLYN NY 11221	05/16/2012	05/16/2017
DOL	NYC	*****8074	ECONOMY IRON WORKS INC		670 SOUTHERN BLVD BRONX NY 10455	06/14/2011	06/14/2016
DOL	DOL		EDWARD L GAUTHIER		C/O IMPERIAL MASONRY REST 141 ARGONNE DRIVEKENMORE NY 14217	10/03/2012	10/03/2017
DOL	NYC		EDWARD MENKEN		C/O AQUA JET PAINTING 10 VIKING DRIVEWEST ISLIP NY 11795	04/16/2014	04/16/2019
DOL	NYC	*****0900	EF PRO CONTRACTING INC		147 BROOME AVENUE ATLANTIC BEACH NY 11509	03/03/2014	03/03/2019
DOL	NYC		EFSTRATIOS BERNARDIS		23-73 48TH STREET LONG ISLAND CITY NY 11103	04/24/2014	04/24/2019
DOL	NYC	*****6260	EL TREBOL SPECIAL CLEANING INC		95-26 76TH STREET OZONE PARK NY 11416	10/12/2011	10/12/2016
DOL	DOL		ELIZABETH RAMADANI		C/O RAMADA CONSTRUCTION 80 SAVO LOOPSTATEN ISLAND NY 10309	01/07/2014	01/07/2019
DOL	DOL		ELLEN DESANTIS	DESANTIS ENTERPRISES	161 OSWEGO RIVER ROAD PHOENIX NY 13135	09/24/2013	11/18/2018
DOL	DOL	*****0780	EMES HEATING & PLUMBING CONTR		5 EMES LANE MONSEY NY 10952	01/20/2002	01/20/3002
DOL	AG		EMILIO FRANZA		90 JUNIUS STREET BROOKLYN NY 11212	01/23/2014	01/23/2019
DOL	DOL		EMPIRE CONCRETE SERVICES LLC		101 SULLYS TRAIL/SUITE 20 PITTSFORD NY 14534	11/18/2013	01/07/2019
DOL	DOL	*****0511	EMPIRE CONCRETE SYSTEMS LLC		101 SULLYS TRAIL/ SUITE 2 PITTSFORD NY 14534	11/18/2013	01/07/2019
DOL	DOL	*****2353	EMPIRE CONSTRUCTORS LLC		101 SULLYS TRAIL/SUITE 20 PITTSFORD NY 14534	11/18/2013	01/07/2019
DOL	DOL		EMPIRE PRECAST LLC		101 SULLYS TRAIL/SUITE 20 PITTSFORD NY 14534	11/18/2013	01/07/2019
DOL	DOL	*****6101	ENHANCED DATA COM INC		75 SHERBROOK ROAD NORTH BABYLON NY 11704	07/01/2010	07/01/2015
DOL	DOL		ERIKA BARNETT		253 BEACH BREEZE LANE UNIT BARVERNE NY 11692	02/05/2013	02/05/2018
DOL	DOL		ESTEVES & FRAGA CONSTRUCTION CO INC		986 MADISON AVENUE PATERSON NJ 07501	01/03/2013	01/03/2018
DOL	DOL		ESTEVES & FRAGA INC		986 MADISON AVENUE PATERSON NJ 07501	01/03/2013	01/03/2018
DOL	DOL		EVELIO ELLEDIAS		114 PEARL STREET PORT CHESTER NY 10573	08/15/2012	08/15/2017
DOL	NYC		EVERTON CARLESS		134 EVERGREEN PL/STE 101 EAST ORANGE NJ 07018	12/30/2013	12/30/2018
DOL	DOL		F KALAFATIS		2279 HOLLERS AVENUE BRONX NY 10475	01/07/2014	01/07/2019
DOL	DOL		FANTASTIC PAINTING		493 LANSING ROAD FULTONVILLE NY 12072	11/18/2013	11/18/2018
DOL	DOL	*****5867	FJM-FERRO INC		6820 14TH AVENUE BROOKLYN NY 11219	10/27/2011	10/27/2016
DOL	DOL	*****1311	FLOZ-ON PAINTING & DECORATING INC		12 DUNDERBERG ROAD TOMKINS NY 10986	10/16/2013	10/16/2018
DOL	DOL	*****8961	FLOZ-ON PAINTING INC		12 DUNDERBERG ROAD TOMKINS NY 10986	10/16/2013	10/16/2018

DOL	DOL		FMS		4 LEGHORN COURT NEW YORK NY 11748	11/28/2012	11/28/2017
DOL	DOL	*****8067	FORTH SPORT FLOORS INC		P O BOX 74 EAST GREENBUSH NY 12061	02/28/2012	10/01/2017
DOL	DOL		FRAN MICELI		2279 HOLLERS AVENUE BRONX NY 10475	01/07/2014	01/07/2019
DOL	DOL		FRANCES KALAFATIS		2279 HOLLERS AVENUE BRONX NY 10475	01/07/2014	01/07/2019
DOL	DOL		FRANCES KALAFATIS-MICELI		2279 HOLLERS AVENUE BRONX NY 10475	01/07/2014	01/07/2019
DOL	NYC		FRANK ACOCELLA		68 GAYLORD ROAD SCARSDALE NY 10583	02/10/2011	02/10/2016
DOL	DOL		FRANK J MERCANDO		134 MURRAY AVENUE YONKERS NY 10704	12/11/2009	02/03/2019
DOL	DOL		FRANK MICELI JR	C/O FRANK MICELI JR CONTRACTIN G INC	19 CLIFF STREET NEW ROCHELLE NY 10801	10/16/2013	10/16/2018
DOL	DOL	*****1321	FRANK MICELI JR CONTRACTING INC		19 CLIFF STREET NEW ROCHELLE NY 10801	10/16/2013	10/16/2018
DOL	DOL		FRANK ORTIZ		75 SHERBROOK ROAD NORTH BABYLON NY 11704	07/01/2010	07/01/2015
DOL	DOL		FRED ABDO	ABDO TILE COMPANY AKA ABDO TILE CO	6179 EAST MOLLOY ROAD EAST SYRACUSE NY 13057	06/25/2010	07/02/2017
DOL	DOL	*****2724	FRESH START PAINTING CORP		157 TIBBETS ROAD YONKERS NY 10705	03/12/2014	03/12/2019
DOL	DOL	*****9202	G & M PAINTING ENTERPRISES INC		13915 VILLAGE LANE RIVERVIEW MI 48192	02/05/2010	02/05/2015
DOL	DOL		G FUCCI CONSTRUCTION SERVICES		3 ALAN B SHEPARD PLACE YONKERS NY 10705	03/12/2014	03/12/2019
DOL	DOL	*****6767	G FUCCI PAINTING INC		C/O SPIEGEL & UTRERA 1 MAIDEN LANE - 5TH FLNEW YORK NY 10038	03/12/2014	03/12/2019
DOL	DOL	*****4546	GAF PAINTING LLC		157 TIBBETS ROAD YONKERS NY 10705	03/12/2014	03/12/2019
DOL	DOL		GARDEN STATE PAINTING		157 TIBBETTS ROAD YONKERS NY 10705	03/12/2014	03/12/2019
DOL	DOL		GARY MCDOWELL	GM CONSTRUCTI ON & LAWN CARE SERVICE	76 PLEASANT STREET WELLSVILLE NY 14895	06/11/2013	06/11/2018
DOL	DOL	*****6826	GBE CONTRACTING CORPORATION		12-14 UTOPIA PARKWAY WHITESTONE NY 11357	02/10/2010	02/10/2015
DOL	NYC		GELSOMINA TASSONE		25 CLIFF STREET NEW ROCHELLE NY 10801	06/15/2010	06/15/2015
DOL	DOL		GEORGE A PATTI III		P O BOX 772 JAMESTOWN NY 14701	08/13/2010	08/13/2015
DOL	DOL		GEORGE DI BERNARDO		C/O DI BERNARDO TILE 15 WALKER WAYALBANY NY 12205	03/21/2014	03/21/2019
DOL	NYC		GEORGE LUCEY		150 KINGS STREET BROOKLYN NY 11231	01/19/1998	01/19/2998
DOL	DOL		GEORGE SHINAS		12-14 UTOPIA PARKWAY WHITESTONE NY 11357	02/10/2010	02/10/2015
DOL	DOL		GERALD A POLLOCK		336 TOMPKINS STREET CORTLAND NY 13045	06/29/2010	07/15/2016
DOL	DOL		GERALD F POLUCH JR		2085 BRIGHTON HENRIETTA TOWN LINE ROADROCHESTER NY 14623	11/04/2010	11/04/2015
DOL	DOL	*****1075	GLOBAL TANK CONSTRUCTION LLC		P O BOX 1238 SALINA OK 74365	11/28/2012	11/28/2017
DOL	DOL	*****0878	GM CONSTRUCTION & LAWN CARE SERVICE		76 PLEASANT STREET WELLSVILLE NY 14895	06/11/2013	06/11/2018
DOL	DOL	*****0090	GOLDS FLOORING INSTALLATIONS INC		25 HAMILTON ROAD MONTICELLO NY 12701	10/16/2013	10/16/2018
DOL	DOL	*****4013	GR GRATES CONSTRUCTION CORPORATION		63 IRONWOOD ROAD UTICA NY 13520	06/14/2010	06/14/2015
DOL	DOL		GRATES MERCHANT NANNA INC		63 IRONWOOD ROAD UTICA NY 13520	06/14/2010	06/15/2015
DOL	DOL		GREGG G GRATES		63 IRONWOOD ROAD UTICA NY 13520	06/14/2010	06/14/2015
DOL	DOL		GREGORY A FUCCI		C/O PAF PAINTING SERVICES 157 TIBBETTS ROADYONKERS NY 10705	03/12/2014	03/12/2019

DOL	DOL		GREGORY FUCCI JR		C/O APOLLO CONSTRUCTION 157 TIBBETTS ROADYONKERS NY 10705	03/12/2014	03/12/2019
DOL	DOL		GRETCHEN SULLIVAN		P O BOX 130 CRETE IL 60417	11/10/2011	11/10/2016
DOL	DOL	*****9985	GROUND LEVEL CONSTRUCTION		10 GABY LANE CHEEKTOWAGA NY 14227	10/15/2009	10/15/2014
DOL	DOL	*****7735	GRYF CONSTRUCTION INC		394 SPOTSWOOD-ENGLISH RD MONROE NJ 08831	08/08/2011	08/08/2016
DOL	DOL	*****9456	GUILLO CONTRACTING CORP		P O BOX 229 CALVERTON NY 11933	07/08/2013	07/08/2018
DOL	DOL		GUS PAPASTEFANOU		C/O D & G PAINTING & DECO 53 LITTLE COLLABAR ROADMONTGOMERY NY 12549	04/19/2012	04/19/2017
DOL	DOL		H.H. RAUH CONSTRUCTION, LLC		2930 RT. 394 ASHVILLE NY 14710	01/14/2011	01/14/2016
DOL	DOL	*****2499	H.H. RAUH CONTRACTING CO., LLC		2930 RT. 394 ASHVILLE NY 14710	01/14/2011	01/14/2016
DOL	DOL		H.H. RAUH PAVING, INC.		7 WEST 1ST ST. LAKEWOOD NY 14750	01/14/2011	01/14/2016
DOL	DOL		HALSSAM FOSTOK		5 HANSEN PLACE WAYNE NJ 07470	09/18/2013	09/18/2018
DOL	AG	*****9918	HARA ELECTRIC CORP		2461 47TH STREET ASTORIA NY 11103	09/26/2013	09/26/2018
DOL	DOL	*****5405	HARD LINE CONTRACTING INC		89 EDISON AVENUE MOUNT VERNON NY 10550	10/28/2011	10/28/2016
DOL	AG		HARVINDER SINGH PAUL		90 JUNIUS STREET BROOKLYN NY 11212	01/23/2014	01/23/2019
DOL	DOL		HI-TECH CONTRACTING CORP		114 PEARL STREET PORT CHESTER NY 10573	08/15/2012	08/15/2017
DOL	DOL	*****4331	HIDDEN VALLEY EXCAVATING INC		225 SEYMOUR STREET FREDONIA NY 14063	02/08/2011	02/08/2016
DOL	DOL	*****9893	HOXIE'S PAINTING CO INC		2219 VALLEY DRIVE SYRACUSE NY 13207	12/04/2009	12/04/2014
DOL	DOL	*****8426	IMPERIAL MASONRY RESTORATION INC		141 ARGONNE DRIVE KENMORE NY 14217	10/03/2012	10/03/2017
DOL	DOL	*****7561	INDUS GENERAL CONSTRUCTION		33-04 91ST STREET JACKSON HEIGHTS NY 11372	04/28/2010	04/28/2015
DOL	DA	*****1958	IRON HORSE ONE INC		10 ROSWELL AVENUE OCEANSIDE NY 11572	09/30/2010	09/30/2015
DOL	DOL		ISABEL FRAGA		C/O THREE FRIENDS CONSTR 986 MADISON AVENUEPATERSON NJ 07501	01/03/2013	01/03/2018
DOL	DOL	*****7598	J M RICH LLC		P O BOX 268 STILLWATER NY 12170	09/16/2013	03/21/2019
DOL	DOL	*****1584	J M TRI STATE TRUCKING INC		140 ARMSTRONG AVENUE SYRACUSE NY 13209	10/21/2009	10/21/2014
DOL	DOL	*****3478	J N P CONSTRUCTION CORP		50 LOUIS COURT P O BOX 1907SOUTH HACKENSACK NY 07606	03/21/2014	03/21/2019
DOL	DOL		J N RICH LLC		P O BOX 268 STILLWATER NY 12170	09/16/2013	03/21/2019
DOL	DOL	*****9368	J TECH CONSTRUCTION		PO BOX 64782 ROCHESTER NY 14624	09/24/2012	09/24/2017
DOL	DOL		J THE HANDYMAN			09/24/2012	09/24/2017
DOL	DOL		JACQUELINE HOWE		C/O FLOZ-ON PAINTING INC 12 DUNDERBERG ROADTOMKINS NY 10986	10/16/2013	10/16/2018
DOL	DOL	*****8627	JAG I LLC		635 LUZERNE ROAD QUEENSBURY NY 12804	09/16/2013	09/16/2018
DOL	DOL	*****2868	JAG INDUSTRIES INC		175 BROAD ST - SUITE 320 GLENS FALLS NY 12801	09/16/2013	09/16/2018
DOL	DOL		JAMES BOYCE		C/O EMPIRE CONCRETE SYST 101 SULLYS TRAIL/SUITE 20PITTSFORD NY 14534	11/18/2013	01/07/2019
DOL	DOL		JAMES SICKAU		3090 SHIRLEY ROAD NORTH COLLINS NY 14111	04/19/2011	12/30/2016
DOL	DOL		JAMES WALSH		89 EDISON AVENUE MOUNT VERNON NY 10550	10/28/2011	10/28/2016
DOL	DOL		JASON M RICH		P O BOX 268 STILLWATER NY 12170	09/16/2013	03/21/2019
DOL	DOL		JAY PRESUTTI		C/O CONSOLIDATED INDUSTRI 2051 ROUTE 44/55MODENA NY 12548	01/28/2013	01/28/2018

DOL	DOL		JEFF P BRADLEY		620 PINE HILL ROAD CHESTER NY 10940	06/23/2014	06/23/2019
DOL	DOL		JEFFREY A NANNA		502 WOODBURNE DRIVE UTICA NY 13502	06/14/2010	06/14/2015
DOL	DOL		JEFFREY ARTIERI		107 STEVENS STREET LOCKPORT NY 14094	11/04/2009	11/04/2014
DOL	NYC		JEFFREY CASSIDY		14 RAILROAD AVENUE VALHALLA NY 10595	05/15/2014	05/15/2019
DOL	DOL		JERALD HOWE		C/O FLOZ-ON PAINTING INC 12 DUNDERBERG ROADTOMKINS NY 10986	10/16/2013	10/16/2018
DOL	NYC		JERRY DEWATERS		30 COLUMBUS CIRCLE EASTCHESTER NY 10709	08/21/2012	08/21/2017
DOL	DOL		JOHN BUONADONNA		283 NORTH MIDDLETOWN ROAD PEARL RIVER NY 10965	09/28/2009	09/28/2014
DOL	DOL		JOHN CATONE		C/O CATONE CONSTRUCTION 294 ALPINE ROADROCHESTER NY 14612	03/09/2012	03/09/2017
DOL	DOL		JOHN DESCUL		437 SUNRISE HIGHWAYA WEST BABYLON NY 11704	06/12/2013	06/12/2018
DOL	NYC		JOHN DITURI		1107 MCDONALD AVENUE BROOKLYN NY 11230	07/30/2010	07/30/2015
DOL	NYC		JOHN FICARELLI		120-30 28TH AVENUE FLUSHING NY 11354	01/14/2011	01/14/2016
DOL	DOL		JOHN H LEE	JOHN LEE QUALITY PAVING	67 WILER ROAD HILTON NY 14468	01/28/2013	01/28/2018
DOL	DOL		JOHN JIULIANNI		222 GAINSBORG AVENUE E WEST HARRISON NY 10604	05/10/2010	05/10/2015
DOL	DOL	*****1749	JOHN LEE QUALITY PAVING		67 WILER ROAD HILTON NY 14468	01/28/2013	01/28/2018
DOL	DOL	*****2701	JOHN SMYKLA	AFFORDABLE PAINTING PLUS	367 GREEVES ROAD NEW HAMPTON NY 10958	10/01/2010	10/01/2015
DOL	DOL	*****9368	JORGE I DELEON	J TECH CONSTRUCTI ON	PO BOX 64782 ROCHESTER NY 14624	09/24/2012	09/24/2017
DOL	DOL		JORGE OUVINA		344 SOUNDVIEW LANE COLLEGE POINT NY 11356	11/22/2011	11/22/2016
DOL	DOL		JOSE MONTAS		27 BUTLER PLACE YONKERS NY 10710	03/18/2011	03/15/2017
DOL	DOL		JOSEPH CASUCCI		6820 14TH AVENUE BROOKLYN NY 11219	10/27/2011	10/27/2016
DOL	DOL		JOSEPH MARTONE		112 OSCAWANA HEIGHTS ROAD PUTNAM VALLEY NY 10542	08/27/2013	08/27/2018
DOL	DOL		JOSEPH MONETTE		C/O JOHN MONETTE 140 ARMSTRONG AVENUESYRACUSE NY 13209	10/21/2009	10/21/2014
DOL	DOL		JOSHUA DEBOWSKY		9547 BUSTLETON AVENUE PHILADELPHIA PA 19115	02/05/2014	02/05/2019
DOL	DOL		JOYA MUSCOLINO		10 ST CHARLES STREET THORNWOOD NY 10594	09/03/2013	09/03/2018
DOL	DOL	*****4340	JUBCO SITE DEVELOPMENT LLC		462 LAKEVIEW AVENUE VALHALLA NY 10595	12/16/2013	12/16/2018
DOL	DOL		JULIUS AND GITA BEHREND		5 EMES LANE MONSEY NY 10952	11/20/2002	11/20/3002
DOL	DOL		K NELSON SACKOOR		16 JOY DRIVE NEW HYDE PARK NY 11040	01/05/2010	01/05/2015
DOL	NYC		KAMIL OZTURK		3715 KINGS HWY - STE 1D BROOKLYN NY 11234	06/30/2010	06/30/2015
DOL	DOL		KAREN HARTMAN		C/O GUILLO CONTRACTING P O BOX 229CALVERTON NY 11933	07/08/2013	07/08/2018
DOL	NYC		KATHLEEN SELA	C/O COLONIAL ROOFING COMPANY INC	247 48TH STREET BROOKLYN NY 11220	02/05/2014	02/05/2019
DOL	DOL		KEITH SCHEPIS		C/O KJS HAULING AND HOME 95 MAPLE AVENUENEW CITY NY 10956	04/15/2013	04/15/2018
DOL	DOL		KEN DEAVER		731 WARWICK TURNPIKE HEWITT NJ 07421	06/25/2012	12/11/2017
DOL	DOL	*****5941	KINGSVIEW ENTERPRISES INC		7 W FIRST STREET P O BOX 2LAKEWOOD NY 14750	01/14/2011	01/14/2016
DOL	DOL	*****2463	KJS HAULING AND HOME IMPROVEMENT INC		95 MAPLE AVENUE NEW CITY NY 10956	04/15/2013	04/15/2018

DOL	AG		KOSTAS "GUS" ANDRIKOPOULOS		2461 47TH STREET ASTORIA NY 11103	09/26/2013	09/26/2018
DOL	DOL		KRZYSZTOF PRXYBYL		2 TINA LANE HOPEWELL JUNCTION NY 12533	01/06/2012	01/06/2017
DOL	DOL	*****8033	KUSNIR CONSTRUCTION		2677 ANAWALK ROAD KATONAH NY 10536	08/03/2012	08/03/2017
DOL	DOL	*****0526	LAGUARDIA CONSTRUCTION CORP		47-40 48TH STREET WOODSIDE NY 11377	07/01/2011	07/01/2016
DOL	NYC	*****8816	LAKE CONSTRUCTION AND DEVELOPMENT CORPORATION		150 KINGS STREET BROOKLYN NY 11231	08/19/1998	08/19/2998
DOL	DOL	*****9628	LANCET ARCH INC		112 HUDSON AVENUE ROCHESTER NY 14605	02/14/2006	10/19/2014
DOL	DOL		LANCET SPECIALTY CONTRACTING CORP		C/O CATENARY CONSTRUCTION 112 HUDSON AVENUEROCHESTER NY 14605	10/19/2009	10/19/2014
DOL	DOL		LARRY DOMINGUEZ		114 PEARL STREET PORT CHESTER NY 10573	08/15/2012	08/15/2017
DOL	DOL		LAURA A. GAUTHIER		C/O IMPERIAL MASONRY REST 141 ARGONNE DRIVEKENMORE NY 14217	10/03/2012	10/03/2017
DOL	DOL		LAURI MARTONE		112 OSCAWANA HEIGHTS ROAD PUTNAM VALLEY NY 10542	08/27/2013	08/27/2018
DOL	DOL		LAWRENCE J RUGGLES		P O BOX 371 ROUND LAKE NY 12151	05/12/2014	05/12/2019
DOL	DOL	*****0597	LEED INDUSTRIES CORP	HI-TECH CONTRACTIN G CORP	114 PEART STREET PORT CHESTER NY 10573	08/15/2012	08/15/2017
DOL	DOL	*****7907	LEEMA EXCAVATING INC		140 ARMSTRONG AVENUE SYRACUSE NY 13209	10/21/2009	10/21/2014
DOL	AG		LEONID FRIDMAN		APT 5 200 BRIGHTON, 15TH STBROOKLYN NY 11235	01/23/2013	01/23/2019
DOL	DOL	*****8453	LINPHILL ELECTRICAL CONTRACTORS INC		523 SOUTH 10TH AVENUE MOUNT VERNON NY 10553	01/07/2011	04/15/2018
DOL	DOL		LINVAL BROWN		523 SOUTH 10TH AVENUE MOUNT VERNON NY 10553	01/07/2011	04/15/2018
DOL	DOL	*****5171	LUVIN CONSTRUCTION CORP		P O BOX 357 CARLE PLACE NY 11514	03/15/2010	03/15/2015
DOL	NYC	*****2850	M A 2 FLAGS CONTRACTING CORP		25-18 100TH STREET EAST ELMHURST NY 11369	08/21/2013	08/21/2018
DOL	NYC	*****3141	MACKEY REED ELECTRIC INC		1ST FLOOR STORE FRONT 88-10 LITTLE NECK PARKWAYFLORAL PARK NY 11001	06/24/2014	06/24/2019
DOL	DOL		MANUEL ESTEVES,		55 OLD TURNPIKE ROAD SUITE 312NANUET NY 10954	02/04/2011	02/04/2016
DOL	NYC		MANUEL P TOBIO		150 KINGS STREET BROOKLYN NY 14444	08/19/1998	08/19/2998
DOL	NYC		MANUEL TOBIO		150 KINGS STREET BROOKLYN NY 11231	08/19/1998	08/19/2998
DOL	DOL		MAR CONTRACTING CORP		620 COMMERCE STREET THORNWOOD NY 10594	09/24/2012	09/24/2017
DOL	DOL		MARGARET FORTH		P O BOX 74 EAST GREENBUSH NY 12061	02/28/2012	10/01/2017
DOL	DOL		MARIA ESTEVES AKA MARIA MARTINS		C/O THREE FRIENDS CONSTR 986 MADISON AVENUEPATERSON NJ 07501	01/03/2013	01/03/2018
DOL	DOL		MARIA MARTINS AKA MARIA ESTEVES		C/O THREE FRIENDS CONSTR 986 MADISON AVENUEPATERSON NJ 07501	01/03/2013	01/03/2018
DOL	DOL		MARIO LUIS		31 DURANT AVENUE BETHEL CT 06801	07/02/2012	07/02/2017
DOL	DOL		MARIO R ECHEVERRIA JR		588 MEACHAM AVE-SUITE 103 ELMONT NY 11003	08/24/2010	08/24/2015
DOL	DOL	*****5533	MARQUISE CONSTRUCTION & DEVELOPMENT CORP		10 ST CHARLES STREET THORNWOOD NY 10594	09/03/2013	09/03/2018
DOL	DOL	*****8810	MARQUISE CONSTRUCTION ASSOCIATES INC		20 BOSWELL ROAD PUTNAM VALLEY NY 10579	09/03/2013	09/03/2018
DOL	DOL	*****1134	MARQUISE CONSTRUCTION CORP		10 ST CHARLES STREET THORNWOOD NY 10594	09/03/2013	09/03/2018
DOL	NYC	*****4314	MASCON RESTORATION INC		129-06 18TH AVENUE COLLEGE POINT NY 11356	02/09/2012	02/09/2017

DOL	NYC	*****4314	MASCON RESTORATION LLC		129-06 18TH AVENUE COLLEGE POINT NY 11356	02/09/2012	02/09/2017
DOL	DOL	*****0845	MASONRY CONSTRUCTION INC		442 ARMONK ROAD MOUNT KISCO NY 10549	12/04/2009	06/04/2017
DOL	DOL	*****3333	MASONRY INDUSTRIES INC		442 ARMONK ROAD MOUNT KISKO NY 10549	12/04/2009	06/04/2017
DOL	DOL	*****4638	MATSOS CONTRACTING CORPORATION		12-14 UTOPIA PARKWAY WHITESTONE NY 11357	02/10/2010	02/10/2015
DOL	AG	*****9970	MAY CONSTRUCTION CO INC		700 SUMMER STREET STAMFORD CT	11/24/2009	11/24/2014
DOL	DOL	*****9857	MBL CONTRACTING CORPORATION		2620 ST RAYMOND AVENUE BRONX NY 10461	08/30/2011	08/30/2016
DOL	DOL		MCI CONSTRUCTION INC		975 OLD MEDFORD AVENUE FARMINGDALE NY 11738	08/24/2009	08/24/2014
DOL	DOL	*****9028	MCINTOSH INTERIORS LLC		8531 AVENUE B BROOKLYN NY 11236	02/05/2013	02/05/2018
DOL	DOL	*****5936	MCSI ADVANCED AV SOLUTIONS LLC		2085 BRIGHTON HENRIETTA TOWN LINE ROADROCHESTER NY 14623	11/04/2010	11/04/2015
DOL	DOL	*****4259	MERCANDO CONTRACTING CO INC		134 MURRAY AVENUE YONKERS NY 10704	12/11/2009	02/03/2019
DOL	DOL	*****0327	MERCANDO INDUSTRIES LLC		134 MURRAY AVENUE YONKERS NY 10704	12/11/2009	02/03/2019
DOL	NYC	*****5330	METRO DUCT SYSTEMS INC		12-19 ASTORIA BOULEVARD LONG ISLAND CITY NY 11102	04/16/2014	06/24/2019
DOL	DOL	*****9198	MICHAEL CZECHOWICZ	OCTAGON CO	37-11 35TH AVENUE-2ND FL LONG ISLAND CITY NY 11101	01/08/2013	01/08/2018
DOL	DOL		MICHAEL F LEARY JR		3813 SNOWDEN HILL ROADNEW HARTFORD NY 13413	06/19/2013	06/19/2018
DOL	DOL		MICHAEL F LEARY JR METAL STUD & DRYWALL		3813 SNOWDEN HILL ROAD NEW HARTFORD NY 13413	06/19/2013	06/19/2018
DOL	DOL		MICHAEL KTISTAKIS		363 88TH STREET BROOKLYN NY 11209	11/18/2013	11/18/2018
DOL	DOL	*****6033	MICHAEL KUSNIR	KUSNIR CONSTRUCTION	2677 ANAWALK ROAD KATONAH NY 10536	08/03/2012	08/03/2017
DOL	DOL		MICHAEL MARGOLIN		4 LEGHORN COURT NEW YORK NY 11746	11/28/2012	11/28/2017
DOL	DOL		MICHELLE L BARBER		635 LUZERNE ROAD QUEENSBURY NY 12804	09/16/2013	09/16/2018
DOL	DOL	*****2635	MIDLAND CONSTRUCTION OF CEDAR LAKE INC		13216 CALUMET AVENUE CEDAR LAKE IL 46303	11/10/2011	11/10/2016
DOL	NYC		MIGUEL ACOSTA		25-18 100TH STREET EAST ELMHURST NY 11369	08/21/2013	08/21/2018
DOL	DOL	*****5517	MILLENNIUM PAINTING INC		67 WARD ROAD SALT POINT NY 12578	01/21/2011	01/21/2016
DOL	AG		MOHAMMAD RIAZ		46 RUGBY ROAD WESTBURY NY 11590	11/20/2013	11/20/2018
DOL	NYC		MOHAMMAD SELIM		73-12 35TH AVE - APT F63 JACKSON HEIGHTS NY 11372	03/04/2010	03/04/2015
DOL	DA		MOHAMMED SALEEM		768 LYDIG AVENUE BRONX NY 10462	08/18/2009	05/25/2015
DOL	NYC	*****2690	MONDOL CONSTRUCTION INC		11-27 30TH DRIVE LONG ISLAND CITY NY 11102	05/25/2011	05/25/2016
DOL	DOL		MORTON LEVITIN		3506 BAYFIELD BOULEVARD OCEANSIDE NY 11572	08/30/2011	08/30/2016
DOL	DOL	*****2737	MOUNTAIN'S AIR INC		2471 OCEAN AVENUE- STE 7A BROOKLYN NY 11229	09/24/2012	09/24/2017
DOL	NYC		MUHAMMAD ZULFIQAR		129-06 18TH AVENUE COLLEGE POINT NY 11356	02/09/2012	02/09/2017
DOL	DOL	*****2357	MUNICIPAL MILLING & MIX-IN-PLACE		9091 ERIE ROAD ANGOLA NY 14006	02/03/2011	02/03/2016
DOL	DOL		MURRAY FORTH		P O BOX 74 EAST GREENBUSH NY 12061	02/28/2012	10/01/2017
DOL	DA	*****9842	MUTUAL OF AMERICAL GENERAL CONSTRUCTION & MANAGEMENT CORP		768 LYDIG AVENUE BRONX NY 10462	08/18/2009	05/25/2015
DOL	DOL		MUZAFFAR HUSSAIN		C/O ABSOLUTE GENERAL CONT 1129 AVENUE UBROOKLYN NY 11229	01/28/2013	01/28/2018
DOL	DOL		NAT PICCO		154 EAST BOSTON POST ROAD MAMARONECK NY 10543	08/22/2009	08/22/2014
DOL	DA	*****6988	NEW YORK INSULATION INC		58-48 59TH STREET MASPETH NY 11378	05/16/2012	05/16/2017

DOL	DOL		NICHOLAS DEGREGORY JR	NJ DEGREGORY & COMPANY	1698 ROUTE 9 GLENS FALLS NY 12801	05/23/2013	05/23/2018
DOL	NYC		NICHOLAS PROVENZANO		147 BROOME AVENUE ATLANTIC BEACH NY 11509	03/03/2014	03/03/2019
DOL	NYC		NICHOLAS PROVENZANO		147 BROOME AVENUE ATLANTIC BEACH NY 11509	03/03/2014	03/03/2019
DOL	DOL		NICOLE SPELLMAN		2081 JACKSON AVENUE COPIAGUE NY 11726	06/03/2010	06/03/2015
DOL	DOL		NIKOLAS PSAREAS		656 N WELLWOOD AVE/STE C LINDENHURST NY 11757	09/01/2011	09/01/2016
DOL	DOL	*****5279	NJ DEGREGORY & COMPANY		1698 ROUTE 9 GLENS FALLS NY 12801	05/23/2013	05/23/2018
DOL	DOL		NJ DEGREGORY & SONS CONSTRUCTION		1698 ROUTE 9 GLENS FALLS NY 12801	05/23/2013	05/23/2018
DOL	DOL	*****9198	OCTAGON CO		37-11 35TH AVENUE-2ND FL LONG ISLAND CITY NY 11101	01/08/2013	01/08/2018
DOL	DOL		OKBY ELSAYED		1541 EAST 56TH STREET BROOKLYN NY 11234	05/04/2012	05/04/2017
DOL	NYC		OLIVER HOLGUIN		95-26 78TH STREET OZONE PARK NY 11416	10/12/2011	10/12/2016
DOL	NYC	*****8337	OPTIMUM CONSTRUCTION INC		23-73 48TH STREET LONG ISLAND CITY NY 11103	04/24/2014	04/24/2019
DOL	NYC		ORSON ARROYO		C/O METRO DUCT SYSTEMS 12-19 ASTORIA BOULEVARDLONG ISLAND CITY NY 11102	04/16/2014	06/24/2019
DOL	DOL	*****4546	PAF PAINTING CORP		161 TIBBETTS ROAD YONKERS NY 10705	03/12/2014	03/12/2019
DOL	DOL	*****5242	PAF PAINTING SERVICES INC	GARDEN STATE PAINTING	157 TIBBETTS ROAD YONKERS NY 10103	03/12/2014	03/12/2019
DOL	DOL		PAF PAINTING SERVICES OF WESTCHESTER INC		C/O SPIEGEL & UTRERA 1 MAIDEN LANE - 5TH FLNEW YORK NY 10038	03/12/2014	03/12/2019
DOL	DOL	*****5226	PASCARELLA & SONS		459 EVERDALE AVENUE WEST ISLIP NY 11759	01/10/2010	01/10/2015
DOL	DOL	*****8802	PAT'S HEATING AND AIR CONDITIONING LTD		P O BOX 371 ROUND LAKE NY 12151	05/12/2014	05/12/2019
DOL	DOL		PATRICIA M RUGGLES		P O BOX 371 ROUND LAKE NY 12151	05/12/2014	06/12/2019
DOL	DOL		PAUL VERNA		C/O AMERICAN STEEL MECHA 693 PAINTER STREETMEDIA PA 19063	02/20/2013	02/20/2018
DOL	DOL		PEDRO RINCON		131 MELROSE STREET BROOKLYN NY 11206	03/02/2010	03/02/2015
DOL	DOL	*****9569	PERFORM CONCRETE INC		31 DURANT AVENUE BETHEL CT 06801	07/02/2012	07/02/2017
DOL	DOL		PETER J LANDI		249 MAIN STREET EASTCHESTER NY 10709	10/05/2009	10/05/2014
DOL	DOL	*****7229	PETER J LANDI INC		249 MAIN STREET EASTCHESTER NY 10709	10/05/2009	10/05/2014
DOL	NYC		PETER LUSTIG		30 COLUMBUS CIRCLE EASTCHESTER NY 10709	08/21/2012	08/21/2017
DOL	NYC		PETER TRITARIS		5990 58TH AVENUE MASPETH NY 11378	11/18/2013	11/18/2018
DOL	DOL	*****1136	PHOENIX ELECTRICIANS COMPANY INC		540 BROADWAY P O BOX 22222ALBANY NY 12201	03/09/2010	03/09/2015
DOL	DOL	*****7914	PRECISION SITE DEVELOPMENT INC		89 EDISON AVENUE MOUNT VERNON NY 10550	10/28/2011	10/28/2016
DOL	DOL	*****2989	PROFESSIONAL ESTIMATING & BUSINESS CORP		157 TIBBETS ROAD YONKERS NY 10705	03/12/2014	03/12/2019
DOL	DOL	*****6895	PROLINE CONCRETE OF WNY INC		3090 SHIRLEY ROAD NORTH COLLINS NY 14111	04/19/2011	12/30/2016
DOL	DOL	*****0015	RAMADA CONSTRUCTION CORP		80 SAVO LOOP STATEN ISLAND NY 10309	01/07/2014	01/07/2019
DOL	DOL		RAMON BONILLA		938 E 232ND STREET #2 BRONX NY 10466	05/25/2010	05/25/2015
DOL	DOL	*****2633	RAW POWER ELECTRIC CORP		3 PARK PLACE MIDDLETOWN NY 10940	09/16/2013	09/16/2018
DOL	NYC		RAYMOND PEARSON		P O BOX 957 PORT JEFFERSON STA NY 11776	03/12/2014	03/12/2019
DOL	DOL		REBECCA THORNE		113 N MAPLE AVENUE GREENSBURG PA 15601	02/21/2013	02/21/2018

DOL	DOL		REVOLUTIONARY FLOORS LLC		P O BOX 268 STILLWATER NY 12170	09/16/2013	03/21/2019
DOL	DOL		RHINO CONCRETE LLC		101 SULLYS TRAIL/SUITE 20 PITTSFORD NY 14534	11/18/2013	01/07/2019
DOL	DOL		RICHARD WILSON		C/O DUFOUR GROUP INC 353 WEST 56TH STREET #7MNEW YORK NY 10019	06/10/2014	06/10/2019
DOL	NYC	*****6978	RISINGTECH INC		243-03 137TH AVENUE ROSEDALE NY 11422	03/25/2010	03/25/2015
DOL	DOL		ROBBYE BISSESAR		89-51 SPRINGFIELD BLVD QUEENS VILLAGE NY 11427	01/11/2003	01/11/3003
DOL	DOL	*****1855	ROBERT D BISHOP JR	ROBERT D BISHOP JR	P O BOX 112 MORRISSONVILLE NY 12962	07/15/2014	07/15/2019
DOL	DOL		ROBERT D BISHOP JR		P O BOX 112 MORRISONVILLE NY 12962	07/15/2014	07/15/2019
DOL	NYC		ROBERT FICARELLI		120-30 28TH AVENUE FLUSHING NY 11354	01/14/2011	01/14/2016
DOL	DOL		ROBERT L EVANS		128A NORTH STAMFORD ROAD STAMFORD CT 06903	05/23/2013	05/23/2018
DOL	DOL		ROCCO ESPOSITO		C/O ROCMAR CONTRACTING CO 620 COMMERCE STREETTHORNWOOD NY 10594	09/24/2012	09/24/2017
DOL	DOL		ROCMAR CONSTRUCTION CORP		620 COMMERCE STREET THORNWOOD NY 10594	09/24/2012	09/24/2017
DOL	DOL	*****7083	ROCMAR CONTRACTING CORP		620 COMMERCE STREET THORNWOOD NY 10594	09/24/2012	09/24/2017
DOL	DOL	*****9025	ROJO MECHANICAL LLC		938 E 232ND STREET #2 BRONX NY 10466	05/25/2010	05/25/2015
DOL	DOL		ROMEO WARREN		C/O RAW POWER ELECTR CORP 3 PARK PLACEMIDDLETOWN NY 10940	09/16/2013	09/16/2018
DOL	DOL	*****5905	ROSE PAINTING CORP		222 GAINSBORG AVENUE EAST WEST HARRISON NY 10604	05/10/2010	05/10/2015
DOL	DOL		ROSEANNE CANTISANI		11 TATAMUCK ROAD POUND RIDGE NY 10576	05/04/2012	05/04/2017
DOL	NYC		ROSS J HOLLAND		120-30 28TH AVENUE FLUSHING NY 11354	01/14/2011	01/14/2016
DOL	DOL		ROSS J MUSCOLINO		10 ST CHARLES STREET THORNWOOD NY 10594	09/03/2013	09/03/2018
DOL	DOL		S & M CONTRACTING LLC		30 MIDLAND AVENUE WALLINGTON NJ 07057	11/05/2010	11/05/2015
DOL	DOL		S & S ELECTRIC		235 BROADWAY SCHENECTADY NY 12306	06/19/2013	06/19/2018
DOL	DOL	*****2585	S B WATERPROOFING INC		SUITE #3R 2187 CONEY ISLAND AVENUEBROOKLYN NY 11223	11/04/2009	11/04/2014
DOL	DOL	*****4923	SCHENLEY CONSTRUCTION INC		731 WARWICK TURNPIKE HEWITT NJ 07421	06/25/2012	12/11/2017
DOL	DOL		SCOTT LEONARD	GLOBAL TANK CONSTRUCTI ON LLC	P O BOX 1238 SALINA OK 74365	11/28/2012	11/28/2017
DOL	DOL		SEAKCO CONSTRUCTION COMPANY LLC		128A NORTH STAMFORD ROAD STAMFORD CT 06903	05/23/2013	05/23/2018
DOL	DOL	*****9030	SEAKCO NEW YORK LLC	SEAKCO CONSTRUCTI ON COMPANY	128A NORTH STAMFORD ROAD STAMFORD CT 06903	05/23/2013	05/23/2018
DOL	DOL		SEAN BURBAGE	C/O SEAN BURBAGE CORP	445 ROOSA GAP ROAD BLOOMINGBURG NY 12721	04/14/2014	04/14/2019
DOL	DOL	*****6586	SEAN BURBAGE CORP		445 ROOSA GAP ROAD BLOOMINGBURG NY 12721	04/14/2014	04/14/2019
DOL	DOL	*****3540	SEVEN STAR ELECTRICAL CONTRACTING CORP		23-24 STEINWAY STREET ASTORIA NY 11105	06/27/2011	06/27/2016
DOL	DOL		SEVEN STAR ELECTRICAL INC		C/O THEONI ATHANASIADIS 1023 COMMACK ROADDIX HILLS NY 11746	06/27/2011	06/27/2016
DOL	NYC		SHAFIQUL ISLAM		11-27 30TH DRIVE LONG ISLAND CITY NY 11102	05/25/2011	05/25/2016
DOL	NYC		SHAHZAD ALAM		21107 28TH AVE BAYSIDE NY 11360	07/02/2012	07/02/2017
DOL	DOL		SHAIKF YOUSUF		C/O INDUS GENERAL CONST 33-04 91ST STREETJACKSON HEIGHTS NY 11372	04/28/2010	04/28/2015

DOL	DOL	*****0415	SIGNAL CONSTRUCTION LLC		199 GRIDER STREET BUFFALO NY 14215	11/14/2006	02/25/2015
DOL	DOL	*****8469	SIGNATURE PAVING AND SEALCOATING		P O BOX 772 JAMESTOWN NY 14701	08/13/2010	08/13/2015
DOL	DOL	*****8469	SIGNATURE SEALCOATING AND STRIPING SERVICE		345 LIVINGSTON AVENUE P O BOX 772JAMESTOWN NY 14702	04/04/2007	08/13/2015
DOL	DOL	*****6904	SIGNING STAR LIMITED LIABILITY COMPANY		5 HANSEN PLACE WAYNE NJ 07470	09/18/2013	09/18/2018
DOL	DOL	*****0667	SNEEM CONSTRUCTION INC		43-22 42ND STREET SUNNYSIDE NY 11104	07/01/2011	07/01/2016
DOL	DOL		SPASOJE DOBRIC		61 WILLET STREET - SUITE PASSAIC NJ 07055	07/09/2010	02/23/2017
DOL	DOL		SPORTSCRAFTERS INC		113 N MAPLE AVENUE GREENSBURG PA 15601	02/21/2013	02/21/2018
DOL	DOL	*****3539	SPOTLESS CONTRACTING	IMPACT INDUSTRIAL SERVICES INC	44 THIELLS-MT IVY ROAD POMONA NY 10970	10/14/2011	10/14/2016
DOL	DOL	*****3496	STAR INTERNATIONAL INC		89-51 SPRINGFIELD BLVD QUEENS VILLAGE NY 11427	08/11/2003	08/11/3003
DOL	DOL		STEFANIE MCKENNA		30 MIDLAND AVENUE WALLINGTON NJ 07057	11/05/2010	11/05/2015
DOL	DOL		STEPHEN BIANCHI		462 LAKEVIEW AVENUE VALHALLA NY 10595	12/16/2013	12/16/2018
DOL	DOL		STEPHEON SHELDON	FANTASTIC PAINTING	493 LANSING ROAD FULTONVILLE NY 12072	11/18/2013	11/18/2018
DOL	DOL		STEVEN CONKLIN		60 COLONIAL ROAD STILLWATER NY 12170	02/15/2011	02/15/2016
DOL	DOL		STUART CHAITIN		634 ROUTE 303 BLAUVET NY 10913	07/26/2012	11/19/2018
DOL	DOL	*****3210	SUPER SWEEP	FMS	4 LEGHORN COURT NEW YORK NY 11746	11/28/2012	11/28/2017
DOL	DOL		SUZANNE G GOLD	C/O GOLDS FLOORING INSTALLATION S INC	25 HAMILTON ROAD MONTICELLO NY 12701	10/16/2013	10/16/2018
DOL	DOL	*****9676	T D CONTRACTORS CORP	T D CONTRACTOR S INC	113 N MAPLE AVENUE GREENSBURG PA 15601	02/21/2013	02/21/2018
DOL	DOL		T D CONTRACTORS INC		113 N MAPLE AVENUE GREENSBURG PA 15601	02/21/2013	02/21/2018
DOL	DOL		TECH-MECHANICAL FAB DC INC		5 PARKER AVENUE POUGHKEEPSIE NY 12601	03/25/2014	03/25/2019
DOL	DOL	*****4293	THE J OUVINA GROUP LLC		344 SOUNDVIEW LANE COLLEGE POINT NY 11356	11/22/2011	11/22/2016
DOL	DOL		THE THORNE GROUP INC		113 N MAPLE AVENUE GREENSBURG PA 15601	02/21/2013	02/21/2018
DOL	DOL	*****2070	THE UNIVERSAL GROUP OF NEW YORK INC		212 OXFORD WAY SCHENECTADY NY 12309	12/11/2012	09/16/2018
DOL	DOL	*****9243	THE WELCOME MAT PROPERTY MANAGEMENT LLC		P O BOX 268 STILLWATER NY 12170	09/16/2013	03/21/2019
DOL	DOL		THEONI ATHANASIADIS		C/O SEVEN STAR ELECTRICAL 23-24 STEINWAY STREETASTORIA NY 11105	06/27/2011	06/27/2016
DOL	DOL		THOMAS DESANTIS	DESANTIS ENTERPRISES	161 OSWEGO RIVER ROAD PHOENIX NY 13135	09/24/2013	11/18/2018
DOL	NYC		THOMAS SCARINCI		130-43 92ND AVENUE RICHMOND HILLS NY 11418	11/27/2013	11/27/2018
DOL	DOL		THOMAS TERRANOVA		13 NEW ROAD/SUITE 1 NEWBURGH NY 12550	11/15/2010	11/15/2015
DOL	DOL	*****2734	THREE FRIENDS CONSTRUCTION CORP		986 MADISON AVENUE PATERSON NJ 07501	01/03/2013	01/03/2018
DOL	NYC	*****6253	THUNDER BROTHERS CORP		24 CONGRESS LANE SOUTH RIVER NJ 08882	05/01/2013	05/01/2018
DOL	DOL		TIMOTHY F BARBER		635 LUZERNE ROAD QUEENSBURY NY 12804	09/16/2013	09/16/2018
DOL	NYC		TIMOTHY O'SULLIVAN		C/O SNEEM CONSTRUCTION 4322 42ND STREETSUNNYSIDE NY 11104	07/01/2011	07/01/2016
DOL	NYC	*****1523	TM MECHANICAL CORP		130-43 92ND AVENUE RICHMOND HILLS NY 11418	11/27/2013	11/27/2018
DOL	DOL		TNT DEMOLITION AND ENVIRONMENTAL INC		355 COUNTY ROUTE 8 FULTON NY 13069	08/08/2009	08/19/2014
DOL	DOL	*****3315	TOTAL DOOR SUPPLY & INSTALLATION INC		16 JOY DRIVE NEW HYDE PPARK NY 11040	01/05/2010	01/05/2015
DOL	DOL	*****3315	TOTAL DOOR SUPPLY & INSTALLATION INC		16 JOY DRIVE NEW HYDE PPARK NY 11040	01/05/2010	01/05/2015

DOL	DOL	*****8176	TOURO CONTRACTING CORP		1541 EAST 56TH STREET BROOKLYN NY 11234	05/04/2012	05/04/2017
DOL	DOL	*****2357	TRAC CONSTRUCTION INC	MUNICIPAL MILLING & MIX -IN- PLACE	9091 ERIE ROAD ANGOLA NY 14006	02/03/2011	02/03/2016
DOL	DOL		TRI STATE TRUCKING INC		140 ARMSTRONG AVENUE SYRACUSE NY 13209	10/21/2009	10/21/2014
DOL	DOL	*****5213	TRIAD PAINTING CO INC		656 N WELLWOOD AVE/STE C LINDENHURST NY 11757	09/01/2011	09/01/2016
DOL	DOL	*****4294	TWT CONSTRUCTION COMPANY INC		13 NEW ROAD/SUITE 1 NEWBURGH NY 12550	11/15/2010	11/15/2015
DOL	DOL		ULIANO AND SONS INC		22 GRIFFEN COURT MILLER PLACE NY 11746	10/26/2010	10/26/2015
DOL	AG	*****6490	UNIVERSAL STEEL FABRICATORS INC		90 JUNIUS STREET BROOKLYN NY 11212	01/23/2014	01/23/2019
DOL	NYC	*****7174	V&R CONTRACTING		P O BOX 957 PORT JEFFERSON STA NY 11776	03/12/2014	03/12/2019
DOL	DOL	*****1504	VALLEY VIEW LANDSCAPING AND SITE DEVELOPMENT LLC		470 AURORA STREET LANDSCASTER NY 14086	10/29/2009	10/29/2014
DOL	DOL	*****0854	VANESSA CONSTRUCTION INC		588 MEACHAM AVE/STE 103 ELMONT NY 11003	08/24/2010	08/24/2015
DOL	NYC		VEAP SELA	C/O COLONIAL ROOFING COMPANY INC	247 48TH STREET BROOKLYN NY 11220	02/05/2014	02/05/2019
DOL	DOL	*****3270	VEZANDIO CONTRACTING CORP		530 BEECH STREET NEW HYDE PARK NY 11040	07/02/2012	07/02/2017
DOL	NYC		VICK CONSTRUCTION		21 DAREWOOD LANE VALLEY STREAM NY 11581	12/31/2013	12/31/2018
DOL	NYC		VICKRAM MANGRU	VICK CONSTRUCTI ON	21 DAREWOOD LANE VALLEY STREAM NY 11581	12/31/2013	12/31/2018
DOL	NYC		VINCENT PIZZITOLA		P O BOX 957 PORT JEFFERSON STA NY 11776	03/12/2014	03/12/2019
DOL	NYC	*****9936	VISHAL CONSTRUCTION INC		73-12 35TH AVE - APT F83 JACKSON HEIGHTS NY 11272	03/04/2010	03/04/2015
DOL	DOL		WASSIM ISSA		470 AURORA STREET LANDSCASTER NY 14086	10/29/2009	10/29/2014
DOL	DOL		WESLEY J STAROBA		206 TALLY HO COURT SCHENECTADY NY 12303	06/19/2013	06/19/2018
DOL	DOL	*****0078	WESLEY J STAROBA INC	S & S ELECTRIC	235 BROADWAY SCHENECTADY NY 12306	06/19/2013	06/19/2018
DOL	DOL	*****7617	WHITE PLAINS CARPENTRY CORP		P O BOX 309 WHITE PLAINS NY 10603	12/04/2009	05/04/2017
DOL	DOL		WILLIAM CONKLIN		5 PARKER AVENUE POUGHKEEPSIE NY 12601	03/25/2014	03/25/2019
DOL	DOL		WILLIAM MAZZELLA		134 MURRAY AVENUE YONKERS NY 10704	02/03/2014	02/03/2019
DOL	DOL		WILLIAM SCRIVENS		30 MIDLAND AVENUE WALLINGTON NJ 07057	11/05/2010	11/05/2015
DOL	DOL		WILLIAM THORNE		113 N MAPLE AVENUE GREENSBURG PA 15601	02/21/2013	02/21/2018
DOL	DOL		WILLIAM W FARMER JR		112 HUDSON AVENUE ROCHESTER NY 14605	10/19/2009	10/19/2014
DOL	NYC	*****5498	XAVIER CONTRACTING LLC		68 GAYLORD ROAD SCARSDALE NY 10583	02/10/2011	02/10/2016
DOL	AG		YULY ARONSON		700 SUMMER STREET STAMFORD CT	11/24/2009	11/24/2014
DOL	DOL		YURIY IVANIN		C/O MOUNTAIN'S AIR INC 2471 OCEAN AVENUE-STE 7ABROOKLYN NY 11229	09/24/2012	09/24/2017

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Appendix D

Introduced by Legislator Denenberg

Local Law No. 17 2006

A LOCAL LAW in relation to reducing the emission of pollutants from diesel fuel-powered motor vehicles

Passed by the Nassau County Legislature on November 13, 2006
Voting: ayes: 17, nayes: 0, abstained: 0
Became a law on December 13, 2006 with the approval of the County Executive.

BE IT ENACTED by the County Legislature of the County of Nassau, as follows:

Section 1. This law shall be known as the Ultra Low Sulfur Diesel Fuel Law and shall appear in the miscellaneous laws as title sixty-two.

§ 2. Definitions.

As used in this local law, the following terms shall have the following meanings:

"Best available retrofit technology" means technology, verified by the EPA for reducing the emission of pollutants that achieves reductions in particulate matter emissions at the highest classification level for diesel emission control strategies, as set forth in section five of this local law, which is applicable to the particular engine and application. Such technology shall also, at a reasonable cost, achieve the greatest reduction in emissions of nitrogen oxides at such particulate matter reduction levels and shall in no event result in a net increase in the emissions of either particulate matter or nitrogen oxides.

"Commissioner" shall mean the Commissioner of the Department of Public Works.

"County contractor" means any person who enters into an agreement or contract with the County valued at more than one hundred fifty thousand dollars to perform County work or any person who enters into an agreement or contract with such person to perform County work.

"County department" means any department of County government that uses diesel-powered vehicles in any capacity.

"County" means County of Nassau.

"County work" means to provide labor, services, material and/or equipment which traditionally has been provided by the government of the County through County employees or contractors, except that it shall not mean labor, services, materials and equipment provided by a common carrier; a utility company; a shipping company (including overnight delivery companies); or a manufacturer or delivery company which delivers materials or equipment to County government.

"EPA" means the United States Environmental Protection Agency.

"Gross vehicle weight rating" means the value specified by the manufacturer of a motor vehicle model as the maximum design loaded weight of a singer vehicle of that model.

"Motor vehicle" means a vehicle owned by the County and operated or driven upon a public highway which is propelled by any power other than muscular power, except electrically-driven mobility assistance devices operated or driven by a person with a disability, provided, however, that this term shall not include vehicles that are specially equipped for emergency response by the fire commission, the department of emergency management, or the sheriff's department.

"Non-road diesel vehicle" means a motor vehicle powered by a diesel engine fifty horsepower or greater, including but not limited to excavators, backhoes, cranes, compressors, bulldozers, and similar equipment, but not including a vehicle used for competition.

"On-road diesel vehicle" means a motor vehicle powered by a diesel engine that is used to transport persons or property on a street or highway.

"Person" means any individual, partnership, firm, company, association, joint stock association, corporation or other like organization.

"Reasonable cost means that such technology does not cost greater than thirty percent more than other technology applicable to the particular engine and application that falls within the same classification level for diesel emission control strategies, as set forth in section five of this local law, when considering the cost of the strategies, themselves, and the cost of installation.

"Specially equipped vehicle" means a motor vehicle defined as specially equipped pursuant to rules and regulations developed and approved by an appropriate department of county government designated by the county executive, and adopted by the County legislature.

"Ultra low sulfur diesel fuel" means diesel fuel that has a sulfur content of no more than fifteen parts per million.

§ 3. Use of ultra low sulfur diesel fuel required.

a. All on-road diesel vehicles and non-road diesel vehicles owned, leased, or operated by the County, and all such vehicles used by a County contractor to do County work shall be powered by ultra low sulfur diesel fuel.

b. All on-road diesel vehicles and non-road diesel vehicles owned, leased, or operated by the County, and all such vehicles used by a County contractor to do County work and have a gross vehicle weight rating of more than eight thousand five hundred pounds shall utilize the best available retrofit technology or be equipped with an engine certified to the applicable two thousand seven EPA standard for particulate matter as set forth in section 86.007-11 of title forty of the code of federal regulations or to any subsequent EPA standard for such pollutant that is at least as stringent, pursuant to the following schedule:

Twenty five percent of all such motor vehicles by January 1, 2009;

Fifty percent of all such motor vehicles by January 1, 2011;

One hundred percent of all such motor vehicles by January 1, 2013.

(1) This subdivision shall not apply to any vehicle subject to a lease or public works contract entered into or renewed prior to the effective date of this section.

§ 4. County executive discretion regarding technology.

a. The county executive shall make determinations, and shall publish a list containing such determination, as to the best available retrofit technology to be used for each type of diesel fuel-powered motor vehicle to which this section applies. Each such determination shall be reviewed and revised, as needed, on a regular basis, but in no event less often than annually.

b. The county executive may determine that a technology, whether or not it has been verified by the EPA, may be appropriate to test, on an experimental basis, on a

particular type of diesel fuel-powered motor vehicle owned or operated by a county department. The county executive may authorize such technology to be installed on up to three of such type of motor vehicle. Any motor vehicle on which such technology is installed may be counted for the purpose of meeting the requirements of subdivision b of section three of this local law. Such technology shall not be required to be installed on other motor vehicles of the same type and shall be subject to the provisions of paragraph d of this section.

c. Any solicitation for a public works contract and any contract entered into as a result of such solicitation shall include a specification that all contractors in the performance of such contract shall utilize the best available technology for reducing the emission of pollutants for diesel powered on-road vehicles and non-road vehicles and all contractors in the performance of such contract shall comply with such specification.

d. No county department or county contractor shall be required to replace best available retrofit technology or experimental technology utilized for a diesel fuel-powered motor vehicle in accordance with the provisions of this section within three years of having first utilized such technology for such vehicle, except that technology that falls within level four as set forth in section five of this law, shall not be required to be replaced until it has reached the end of its useful life.

§ 5. Classification of diesel emission control strategies.

The classification levels for diesel emission control strategies are as follows, with level four being the highest classification level:

Level Four – strategy reduces diesel particulate matter emissions by eighty-five percent or greater or reduces engine emissions to less than or equal to .01 grams diesel particulate matter per brake horsepower-hour;

Level Three – strategy reduces diesel particulate matter emissions by between fifty and eighty-four percent;

Level Two - strategy reduces diesel particulate matter emissions by between twenty-five and forty-nine percent;

Level One - strategy reduces diesel particulate matter emissions by between twenty and twenty-four percent.

§ 6. Contractor violations.

The Commissioner is authorized to enforce the provisions of this section.

a. Any contractor who violates any provision of this section shall be liable for a civil penalty between the amounts of one thousand and ten thousand dollars, in addition to twice the amount of money saved by such contractor for failure to comply with this section.

b. No contractor shall make a false claim with respect to the provisions of this section to any county agency. Where a contractor has been found to have done so, such contractor shall be liable for a civil penalty of twenty thousand dollars, in addition to twice the amount of money saved by such contractor in association with having made such false claim.

§ 7. Procedure when ultra-low sulfur diesel fuel is unavailable.

The county executive shall issue a written determination that permits the use of diesel fuel that has a sulfur content of no more than thirty parts per million to fulfill the requirements of this law if ultra low sulfur diesel fuel is not available to meet the needs of county departments to fulfill the requirements of this law. Such determination shall expire after six months if such lack of availability persists, but in no event shall be in effect after January first, two thousand eight

§ 8. Waiver.

The county executive may issue a waiver for the use of ultra low sulfur diesel fuel where a county department makes a written finding, approved in writing by the county executive, that a sufficient quantity of ultra law sulfur diesel fuel, or diesel fuel that has a sulfur content of no more than thirty parts per million where a determination is in effect pursuant to section seven of this law, is not available to meet the requirements of this law, provided that such department, to the extent practicable, shall use whatever quantity of ultra low sulfur diesel fuel or diesel fuel that has a sulfur content of no more than thirty parts per million is available for its diesel fuel-powered motor vehicles. Any waiver issued pursuant to this section shall expire after two months, unless the county department renews the finding, in writing, and the county executive approves such renewal, in writing.

§ 9. Report to county executive and legislature.

a. Not later than January first, two thousand eight, and not later than January first of each year thereafter, the appropriate department or departments of county government, as determined by the county executive, shall submit a report to the county executive and legislature of Nassau county regarding, among other things, the use of ultra low sulfur diesel fuel and the use of the best available retrofit technology by diesel fuel-powered motor vehicles owned operated by county departments during the immediately preceding calendar year. The information contained in this report shall include, but not be limited to, for each county department: (i) the total number of diesel fuel-powered motor vehicles owned or operated by such department; (ii) the number of such motor vehicles that were powered by ultra low sulfur diesel fuel; (iii) the total number of diesel fuel-powered motor vehicles owner or operated by such department having a gross vehicle weight rating of more than eight thousand five hundred pounds; (iv) the number of such motor vehicles that utilized the best available retrofit technology , including a breakdown by motor vehicle model, engine year, and the type of technology used for each vehicle; (v) the number of such motor vehicles that are equipped with an engine certified to the applicable two thousand seven EPA standard for particulate matters as set forth in section 86-007-11 of title forty of the code of federal regulations or to any subsequent EPA standard for particulate matter that is at least as stringent; (vi) the number of such motor vehicles that utilized technology in accordance with paragraph two of subdivision c of this section and the results and analysis regarding the testing off such technology; and (vii) all waivers , findings, and renewals of such findings, issued pursuant to sections seven and eight of this law that, for each waiver, shall include, but not be limited to, the quantity of diesel fuel needed to power diesel fuel-powered motor vehicles owned or operated by such department; specific information concerning the availability of ultra low sulfur diesel fuel or diesel fuel that has a sulfur content of no more than thirty parts per million where a determination is in effect pursuant to section seven of this law; and detailed information concerning the department's efforts to obtain ultra low sulfur diesel fuel or diesel fuel that has a sulfur content of no more than thirty parts per million where a determination is in effect pursuant to sections seven or eight of this law

b. Where a determination is in effect pursuant to section seven or eight of this law, information regarding diesel fuel that has a sulfur content of no more than thirty parts per million shall be reported wherever information is request for ultra low sulfur diesel fuel pursuant to paragraph on e of this section.

c. the report due January first, two thousand eight in accordance with paragraph a of this section shall only include the information required pursuant to subparagraphs (i), (ii), and (vii) of such paragraph.

§10. Inapplicability.

This law shall not apply:

a. when federal or state funding precludes the county from imposing the requirement of this law; or

b. to purchases that are emergency procurements pursuant to the County charter or any local law allowing for such emergency procurements.

c. where such applicability would interfere with the purchase, lease or operation of emergency response vehicles operated by the Department of Emergency Management or the Nassau County Police Department.

d. to a diesel powered non-road vehicle where: 1) the commissioner certifies that the best available technology for reducing the emission of pollutants as required herein is unavailable for such vehicle, in which case such agency or contractor shall use whatever technology is available and appropriate for such vehicle that the commissioner approves for reducing the emission of pollutants; or 2) the vehicle is used for fewer than five calendar days per contract; or 3) the commissioner issues a written waiver based upon a finding that the use of the best available technology for reducing the emission of pollutants may present a hazard or threat to the safety of the operator, other workers or members of the public.

§ 11. Severability.

If any clause, sentence, paragraph, subdivision, section or part of this local law or the application thereof to any person, individual, corporation, firm, partnership, entity or circumstance shall be adjudged by any court of competent jurisdiction to be invalid or unconstitutional, such order or judgment shall not affect, impair, effect or invalidate the remainder thereof, but shall be confined in its operation to the clause, sentence,

paragraph, subdivision, section or part of this law or in its application to the person, individual, corporation, firm, partnership, entity or circumstance directly involved in the controversy in which such order or judgment shall be rendered.

§ 12. SEQRA Determination

It is hereby determined, based on the recommendation of the Nassau County Planning Commission acting in an advisory capacity to the Nassau County Legislature, the lead agency, and pursuant to the provisions of the State Environmental Quality Review Act ("SEQRA"), 8 NYECL section 0101 et seq. and its implementing regulations, Part 617 of 6 NYCRR, and Section 1611 of the County Government Law of Nassau County, that this Local Law will not have a significant impact on the environment and that no further environmental review or action is required. A record of the Planning Commission's recommendation of negative declaration for this action shall be maintained in a file, readily accessible to the public, at the office of the Planning Commission.

§ 13. Effective date.

This local law shall take effect immediately.

APPROVED

Thomas R. Suozzi

County Executive

Appendix EE
Equal Employment Opportunities For Minorities and Women

The provisions of this Appendix EE are hereby made a part of the document to which it is attached.

The Contractor shall comply with all federal, State and local statutory and constitutional anti-discrimination provisions. In addition, Local Law No. 14-2002, entitled "Participation by Minority Group Members and Women in Nassau County Contracts," governs all County Contracts as defined by such title and solicitations for bids or proposals for County Contracts. In accordance with Local Law 14-2002:

(a) The Contractor shall not discriminate against employees or applicants for employment because of race, creed, color, national origin, sex, age, disability or marital status in recruitment, employment, job assignments, promotions, upgradings, demotions, transfers, layoffs, terminations, and rates of pay or other forms of compensation. The Contractor will undertake or continue existing programs related to recruitment, employment, job assignments, promotions, upgradings, transfers, and rates of pay or other forms of compensation to ensure that minority group members and women are afforded equal employment opportunities without discrimination.

(b) At the request of the County contracting agency, the Contractor shall request each employment agency, labor union, or authorized representative of workers with which it has a collective bargaining or other agreement or understanding, to furnish a written statement that such employment agency, union, or representative will not discriminate on the basis of race, creed, color, national origin, sex, age, disability, or marital status and that such employment agency, labor union, or representative will affirmatively cooperate in the implementation of the Contractor's obligations herein.

(c) The Contractor shall state, in all solicitations or advertisements for employees, that, in the performance of the County Contract, all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex, age, disability or marital status.

(d) The Contractor shall make Best Efforts to solicit active participation by certified minority or women-owned business enterprises ("Certified M/WBEs") as defined in Section 101 of Local Law No. 14-2002, including the granting of Subcontracts.

(e) The Contractor shall, in its advertisements and solicitations for Subcontractors, indicate its interest in receiving bids from Certified M/WBEs and the requirement that Subcontractors must be equal opportunity employers.

(f) Contractors must notify and receive approval from the respective Department Head prior to issuing any Subcontracts and, at the time of requesting such authorization, must submit a signed Best Efforts Checklist.

(g) Contractors for projects under the supervision of the County's Department of Public Works shall also submit a utilization plan listing all proposed Subcontractors so that, to the greatest extent feasible, all Subcontractors will be approved prior to commencement of work. Any additions or changes to the list of subcontractors under

the utilization plan shall be approved by the Commissioner of the Department of Public Works when made. A copy of the utilization plan any additions or changes thereto shall be submitted by the Contractor to the Office of Minority Affairs simultaneously with the submission to the Department of Public Works.

(h) At any time after Subcontractor approval has been requested and prior to being granted, the contracting agency may require the Contractor to submit Documentation Demonstrating Best Efforts to Obtain Certified Minority or Women-owned Business Enterprises. In addition, the contracting agency may require the Contractor to submit such documentation at any time after Subcontractor approval when the contracting agency has reasonable cause to believe that the existing Best Efforts Checklist may be inaccurate. Within ten working days (10) of any such request by the contracting agency, the Contractor must submit Documentation.

(i) In the case where a request is made by the contracting agency or a Deputy County Executive acting on behalf of the contracting agency, the Contractor must, within two (2) working days of such request, submit evidence to demonstrate that it employed Best Efforts to obtain Certified M/WBE participation through proper documentation.

(j) Award of a County Contract alone shall not be deemed or interpreted as approval of all Contractor's Subcontracts and Contractor's fulfillment of Best Efforts to obtain participation by Certified M/WBEs.

(k) A Contractor shall maintain Documentation Demonstrating Best Efforts to Obtain Certified Minority or Women-owned Business Enterprises for a period of six (6) years. Failure to maintain such records shall be deemed failure to make Best Efforts to comply with this Appendix EE, evidence of false certification as M/WBE compliant or considered breach of the County Contract.

(l) The Contractor shall be bound by the provisions of Section 109 of Local Law No. 14-2002 providing for enforcement of violations as follows:

a. Upon receipt by the Executive Director of a complaint from a contracting agency that a County Contractor has failed to comply with the provisions of Local Law No. 14-2002, this Appendix EE or any other contractual provisions included in furtherance of Local Law No. 14-2002, the Executive Director will try to resolve the matter.

b. If efforts to resolve such matter to the satisfaction of all parties are unsuccessful, the Executive Director shall refer the matter, within thirty days (30) of receipt of the complaint, to the American Arbitration Association for proceeding thereon.

c. Upon conclusion of the arbitration proceedings, the arbitrator shall submit to the Executive Director his recommendations regarding the imposition of sanctions, fines or penalties. The Executive Director shall either (i) adopt the recommendation of the arbitrator (ii) determine that no sanctions, fines or penalties should be imposed or (iii) modify the recommendation of the arbitrator, provided that such modification shall not expand upon any sanction recommended or impose any new sanction, or increase the amount of any

recommended fine or penalty. The Executive Director, within ten days (10) of receipt of the arbitrators award and recommendations, shall file a determination of such matter and shall cause a copy of such determination to be served upon the respondent by personal service or by certified mail return receipt requested. The award of the arbitrator, and the fines and penalties imposed by the Executive Director, shall be final determinations and may only be vacated or modified as provided in the civil practice law and rules ("CPLR").

(m) The contractor shall provide contracting agency with information regarding all subcontracts awarded under any County Contract, including the amount of compensation paid to each Subcontractor and shall complete all forms provided by the Executive Director or the Department Head relating to subcontractor utilization and efforts to obtain M/WBE participation..

Failure to comply with provisions (a) through (m) above, as ultimately determined by the Executive Director, shall be a material breach of the contract constituting grounds for immediate termination. Once a final determination of failure to comply has been reached by the Executive Director, the determination of whether to terminate a contract shall rest with the Deputy County Executive with oversight responsibility for the contracting agency.

As used in this Appendix EE the term "Best Efforts Checklist" shall mean a list signed by the Contractor, listing the procedures it has undertaken to procure Subcontractors in accordance with this Appendix EE.

As used in this Appendix EE the term "County Contract" shall mean (i) a written agreement or purchase order instrument, providing for a total expenditure in excess of twenty-five thousand dollars ($25,000), whereby a County contracting agency is committed to expend or does expend funds in return for labor, services, supplies, equipment, materials or any combination of the foregoing, to be performed for, or rendered or furnished to the County; or (ii) a written agreement in excess of one hundred thousand dollars ($100,000), whereby a County contracting agency is committed to expend or does expend funds for the acquisition, construction, demolition, replacement, major repair or renovation of real property and improvements thereon. However, the term "County Contract" does not include agreements or orders for the following services: banking services, insurance policies or contracts, or contracts with a County contracting agency for the sale of bonds, notes or other securities.

As used in this Appendix EE the term "County Contractor" means an individual, business enterprise, including sole proprietorship, partnership, corporation, not-for-profit corporation, or any other person or entity other than the County, whether a contractor, licensor, licensee or any other party, that is (i) a party to a County Contract, (ii) a bidder in connection with the award of a County Contract, or (iii) a proposed party to a County Contract, but shall not include any Subcontractor.

As used in this Appendix EE the term "County Contractor" shall mean a person or firm who will manage and be responsible for an entire contracted project.

As used in this Appendix EE "Documentation Demonstrating Best Efforts to Obtain Certified Minority or Women-owned Business Enterprises" shall include, but is not limited to the following:

a. Proof of having advertised for bids, where appropriate, in minority publications, trade newspapers/notices and magazines, trade and union publications, and publications of general circulation in Nassau County and surrounding areas or having verbally solicited M/WBEs whom the County Contractor reasonably believed might have the qualifications to do the work. A copy of the advertisement, if used, shall be included to demonstrate that it contained language indicating that the County Contractor welcomed bids and quotes from M/WBE Subcontractors. In addition, proof of the date(s) any such advertisements appeared must be included in the Best Effort Documentation. If verbal solicitation is used, a County Contractor's affidavit with a notary's signature and stamp shall be required as part of the documentation.

b. Proof of having provided reasonable time for M/WBE Subcontractors to respond to bid opportunities according to industry norms and standards. A chart outlining the schedule/time frame used to obtain bids from M/WBEs is suggested to be included with the Best Effort Documentation

c. Proof or affidavit of follow-up of telephone calls with potential M/WBE subcontractors encouraging their participation. Telephone logs indicating such action can be included with the Best Effort Documentation

d. Proof or affidavit that M/WBE Subcontractors were allowed to review bid specifications, blue prints and all other bid/RFP related items at no charge to the M/WBEs, other than reasonable documentation costs incurred by the County Contractor that are passed onto the M/WBE.

e. Proof or affidavit that sufficient time prior to making award was allowed for M/WBEs to participate effectively, to the extent practicable given the timeframe of the County Contract.

f. Proof or affidavit that negotiations were held in Best Efforts with interested M/WBEs, and that M/WBEs were not rejected as unqualified or unacceptable without sound business reasons based on (1) a thorough investigation of M/WBE qualifications and capabilities reviewed against industry custom and standards and (2) cost of performance The basis for rejecting any M/WBE deemed unqualified by the County Contractor shall be included in the Best Effort Documentation

g. If an M/WBE is rejected based on cost, the County Contractor must submit a list of all sub-bidders for each item of work solicited and their bid prices for the work.

h. The conditions of performance expected of Subcontractors by the County Contractor must also be included with the Best Effort Documentation

i. County Contractors may include any other type of documentation they feel necessary to further demonstrate their Best Efforts regarding their bid documents.

As used in this Appendix EE the term "Executive Director" shall mean the Executive Director of the Nassau County Office of Minority Affairs; provided, however, that Executive Director shall include a designee of the Executive Director except in the case of final determinations issued pursuant to Section (a) through (l) of these rules.

As used in this Appendix EE the term "Subcontract" shall mean an agreement consisting of part or parts of the contracted work of the County Contractor.

As used in this Appendix EE, the term "Subcontractor" shall mean a person or firm who performs part or parts of the contracted work of a prime contractor providing services, including construction services, to the County pursuant to a county contract. Subcontractor shall include a person or firm that provides labor, professional or other services, materials or supplies to a prime contractor that are necessary for the prime contractor to fulfill its obligations to provide services to the County pursuant to a county contract. Subcontractor shall not include a supplier of materials to a contractor who has contracted to provide goods but no services to the County, nor a supplier of incidental materials to a contractor, such as office supplies, tools and other items of nominal cost that are utilized in the performance of a service contract.

Provisions requiring contractors to retain or submit documentation of best efforts to utilize certified subcontractors and requiring Department head approval prior to subcontracting shall not apply to inter-governmental agreements. In addition, the tracking of expenditures of County dollars by not-for-profit corporations, other municipalities, States, or the federal government is not required.

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ARTICLE XVII. PRICES

The County shall pay as set forth in this Contract and the Contractor shall receive the price stipulated as full compensation for everything furnished and done by him under this Contract, and for all loss or damage arising out of the nature of the work aforesaid or from the action of the elements, or from unforeseen obstructions or difficulties encountered in the prosecution of the work and for all expense incurred by or in consequence of the discontinuance of the work herein specified, and for well and faithfully completing the work and the whole thereof as herein specified, and for making repairs to and maintaining the work in good condition until the final acceptance of the work.

ARTICLE XVIII. PAYMENTS

A. On or about the first of each month, the Contractor may make an estimate of the amount and the fair value of the work done and may apply for partial payment therefor. The Contractor shall revise the estimate as the Engineer may direct. Whenever the monthly estimate of the Contractor, as approved by the Engineer, shows that the value of the work completed during the previous month exceeds one thousand ($1,000.00) dollars in amount, the Commissioner will issue a certificate for such work. The Commissioner will thereupon cause the amount therein to be paid to the Contractor.

B. Before any payments shall be made under this contract, the Contractor and all subcontractors performing any part of the work called for by this Contract must file in the office of the Department of Public Works of the County of Nassau verified statements provided for this Section 220-a of the Labor Law, as amended, certifying to the amounts then due and owing from the Contractor and subcontractor filing such statements to any ans all laborers for daily or weekly wages on account of laborer performed upon the work under this Contract, setting forth therein the names of the persons whose wages are unpaid and the amount due to each respectively.

C. The Contractor must set forth in his statement the names of all his subcontractors and each subcontractor must likewise in his statement set forth the names of his subcontractors. If the Contractor or subcontractor has no subcontractor, he shall so state in his statement. If there be nothing due and owing to any laborer for daily or weekly wages on account of labor performed upon the work under this Contract, verified statements to that effect must be filed by the Contractor and all subcontractors before any payments are made under this Contract.

ARTICLE XIX. FINAL PAYMENT

Within fifteen days after completion of the work and compliance with all the terms of this Contract, and submission of satisfactory evidence of having repaired any and all damage to public or privately owned properties resulting from but not a part of the work under this Contract, the Commissioner of Public Works shall cause a final inspection to be made for approval of all work included in this Contract and shall issue a final certificate of completion to the Contractor for the work done under the Contract. The County shall, not later than thirty (30) days after the acceptance of this work, pay the Contractor the entire sum so found to be due thereunder after deductions of all previous payments and all previous payments and all percentages and amounts to be kept and retained under provisions of the contract. All prior estimates and payments shall be subject to correction in the final estimate and payment.

ARTICLE XX. NO ESTOPPEL

The County shall not, nor shall any department or officer thereof be precluded or stopped by any acceptance, return, certificate or payment made or given by the Commissioner of Public Works or other officer, agent or employee of the County under any provision of this agreement, from at any time (either before or after the final completion and acceptance of the work and payment therefor pursuant to any such acceptance, return certificate or payment) showing the true and correct amount, quality and character of the work done and materials furnished by the Contractor or any other person under this Agreement, or from showing at any time that any such acceptance, return, certificate or payment is untrue and incorrect, or improperly made in any particular, or that the work and materials or any part thereof do not in fact conform to the specifications, and the County shall not be precluded or stopped, notwithstanding any such acceptance, return, certificate or payment in accordance therewith, from demanding and recovering from the Contractor such damages as it may sustain by reason of his failure to comply with the specifications.

ARTICLE XXI. NO WAIVER OF RIGHTS

Neither the inspection by the County nor by the Commissioner of Public Works, nor by any of their employees, nor any order, measurements or certificate of the Commissioner of Public Works, nor any order of the County for payment of money, nor any money, nor any payment for or acceptance of the whole or any part of the work by the Commissioner of Public Works, or the County, nor any extension of time, nor any possession by the County or its employees, shall operate as a waiver of any provision of this Contract, nor any power herein provided, nor shall any waiver of any breach of this Contract be held as a waiver of any other subsequent breach. Any remedy provided in this Contract shall be taken and construed as cumulative; i.e. - in addition to each and every other former suit, action or legal proceeding. The County shall also be entitled as of right to an injunction against any breach of the provisions of this Contract.

ARTICLE XXII. CLAIMS AND LIABILITY

No person other than the signer of this Contract as Contractor has any interest hereunder, and no claims shall be made or be valid and neither the County nor any agent thereof shall be liable, or be held to pay any money, except as hereinbefore provided. The acceptance by the Contractor of the last payment shall operate as and shall be a release to the County and every officer or agent thereof, from any claims and liability to the Contractor for anything done or furnished, or any act or neglect of the Contractor or any person relating to or affecting the work. No payment, however, final or otherwise, shall operate to release the Contractor or his sureties from any obligations under this contract or the performance Bond.

ARTICLE XXIII. FINAL COMPENSATION

Upon the faithful performance of the work herein embraced as set forth in the Contract, and its acceptance by the Commissioner of Public Works, the County of Nassau hereby agrees to pay and the Contractor agrees to receive the prices stipulated in the proposal as full compensation for work done under the Contract.

ARTICLE XXIV. SPECIFICATION REFERENCES

All specifications, conditions and all other matter contained in the book prepared by the Department of Public Works of the County of Nassau and entitled "2009 Standard Specifications and Detail Sheets for Civil Engineering and Site Development Construction" and the Standard "Traffic Signal Specifications & Standard Drawings" except as modified on the plans or in the itemized proposal including addenda to the specifications, shall be a part of this Contract and incorporated therein by reference.

ARTICLE XXV. CONTRACTOR'S MAINTENANCE/GUARANTEE.

The Contractor hereby agrees to repair any imperfections that may arise and to maintain in a manner satisfactory to the Commissioner all of his work for a period of one year from date of final acceptance of the Contract. The Contractor also agrees, for this period, to indemnify and save harmless the County, its Officers and agents from any injury done to property or persons as a direct or alleged result of imperfections in his work and shall immediately assume and take charge of the defense of such actions or suits in like manner and to all intents and purposes as if said actions and suits had been brought directly against the Contractor.

ARTICLE XXVI. SCHEDULE OF REQUIREMENTS

A. The following schedule shall apply to the appropriate articles of this agreement:

1. TIME FOR COMPLETION, **730** calendar days with extension (1) one year

2. INSURANCE:
   a. Contractor's Public Liability Insurance and Owner's Protective Public Liability Insurance shall be equal to the following minimum limits of liability:

      1) Minimum Limits of Liability, for each occurrence.
         a) Personal Injury - $ 2,500,000
         b) Property Damage - $ 500,000
         c) Or a Combined Single Limit of $ 3,000,000 or greater.

   b. Owner's Contingent public liability Insurance
      1) For named insured, see: Article XIII. Sec. D.

3. Additional Named Insured (s) on Owners Protective Policy: EACH INSURED TO BE PROTECTED TO THE FULL LIMITS OF LIABILITY Protection to be extended to the owner of record of each parcel of real property upon which the contractor will operate. In case of public thoroughfares, the municipalities having jurisdiction thereof, shall be protected.

4. LIQUIDATED DAMAGES, **$500.00** per day

ARTICLE XXVII. SUPERVISION

The Contractor shall give his personal supervision to the faithful prosecution of the work and in case of his absence he shall have a competent English-speaking representative or foreman on the ground who shall follow without delay all instructions of the Commissioner or his assistants in the prosecution and completion of the work and every part thereto, in full authority to supply men/women, material and labor immediately.

ARTICLE XXVIII. SUBLET OR ASSIGN

A. The Contractor shall not assign, transfer, convey, sublet or otherwise dispose of this Contract or of his right, title or interest in or to it or any part thereof, or his power to execute it or assign, by power of attorney or otherwise, any of the monies due or to become due under this Agreement unless the previous written

consent of the County Executive shall first be obtained thereto, and the giving of any such consent to a particular subcontract or assignment shall not dispense with the necessity of such consent to any further or other subcontracts or assignments. The County Executive reserves the right to limit the total amounts of subcontracts to 60 percent (60%) of the total contract price.

B. Before making any subcontract, the Contractor must submit a written statement to the Commissioner giving the name and address of the proposed subcontractor, the portion of the work materials which he is to perform and furnish, and any other information tending to prove that the proposed subcontractor has the necessary facilities, skill, integrity, past experience and financial resources to perform the work in accordance with the terms and conditions of this Contract. As part of the approval process, the Contractor will assure that the proposed Subcontractor is registered in the County's financial and E-Procurement systems.

C. If the Commissioner finds that the proposed subcontractor is qualified and is registered in the above cited system (see paragraph b., above) he will notify the Contractor.

D. The Commissioner may revoke his approval of a subcontractor when, such subcontractor evidences an unwilling or inability to perform his work in strict accordance with this Contract.

E. No assignment will receive approval unless the instrument of assignments contains a clause to the effect that it is agreed that the funds to be paid the assignee under this assignment are subject to a prior lien for services rendered or materials supplied for the performance of the work called for in said Contract in favor of all persons, firms, or corporations rendering such services or supplying such materials.

F. The approval of the Commissioner of a subcontractor shall not relieve the Contractor of any of his responsibilities, duties, and liabilities hereunder. The Contractor shall be solely responsible to the County for the acts of defaults of his subcontractor and of such subcontractor's officers, agents, and employees, each of whom shall, for all purposes, be deemed to be the agent or employee of the Contractor. Nothing contained in the Contract shall create any contractual relationship between any subcontractor and the County.

G. In addition, the Contractor, at the time of receiving approval from the Commissioner of the name of a subcontractor, shall, before permitting such subcontractor to commence any work contemplated by this Contract, furnish two certificates of workmen's compensation coverage of the employees of said subcontractor. Unless such certificates shall be furnished to the Commissioner, the approval of such subcontractor shall be deemed revoked.

ARTICLE XXIX. COMPTROLLER'S CERTIFICATE

This Contract shall not be binding or of any force unless the County Comptroller shall endorse thereon his certificate that there remains unexpended and unapplied a balance of the appropriation of fund applicable thereto sufficient to pay the estimated expense of executing this Contract as certified by the Officers making the same. In addition the Contractor shall maintain full and complete books and records of accounts in accordance with accepted accounting practices and such other records as may be prescribed by the Comptroller of the County of Nassau. Such books and records shall be retained for a period of six (6) years and shall at all times be available for audit and inspection by the Comptroller of the County of Nassau or his duly designated representative.

ARTICLE XXX. ALL LEGAL PROVISIONS DEEMED INCLUDED; SEPARABILITY; SUPEREMACY; COMPLIANCE WITH LAW

1. Every provision of Law required to be inserted into or referenced by this Agreement is intended to be part of this Agreement. If any such provision is not inserted or is not inserted in correct form then: (a) such provision shall be deemed inserted into this Agreement for purposes of interpretation, and (b) upon the application of either party this Agreement shall be formally amended to comply strictly with the Law, without prejudice to the rights of either party.

2. In the event that any provision of this Agreement shall be held to be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby.

3. Unless the application of this subsection will cause a provision by Law to be excluded from this Agreement, in the event of any conflict between the terms set forth above the signature page to this Agreement and those contained in any schedule, exhibit, appendix, or attachment to this Agreement, the terms and conditions set forth above the signature page shall control. To the extent possible, all terms of this Agreement should be read together as not conflicting.

4. The Firm shall comply with any and all applicable federal, state and local Laws, including those relating to conflicts of interest, discrimination, and confidentially, in connection with its performance under this Agreement. In furtherance of the foregoing, the Firm is bound by and shall comply with the terms of Appendix EE attached hereto. As used in this Agreement, the word "Law" means any and all statutes, rules, regulations, orders, ordinances, writs, injunctions, official resolutions, or decrees, as the same may be amended from time to time, enacted, adopted, promulgated, released, or issued, by or on behalf of any government or political subdivision thereof, quasi-

governmental authority, court or official investigative body.

5. The Contractor represents that it is in compliance with the provisions of Local Law No. 9-2002, 'Apprenticeship Training Programs for County Contracts,' including having apprenticeship programs appropriate to the type and scope of work to be performed, which have been registered with and approved by the New York State Commissioner of Labor in accordance with Article 23 of the New York Labor Law. Further, the Contractor shall ensure that any subcontractors performing work under the Contract with a value in excess of $100,000 will similarly utilize approved apprenticeship programs."

6. Minimum Service Standards: Regardless of whether required by Law:

a. The Firm shall, and shall cause Consultant Agents to, conduct its, his or her activities in connection with this Agreement so as not to endanger or harm any Person or property.

b. The Firm shall deliver services under this Agreement in a professional manner consistent with the best practices of the industry in which the Firm operates. The Firm shall take all actions necessary or appropriate to meet the obligation described in the immediately preceding sentence, including obtaining and maintaining, and causing all Consultant Agents to obtain and maintain, all licenses, certifications, and approvals (collectively, "Approvals") necessary or appropriate in connection with the performance of services under this Agreement.

NO TEXT ON THIS PAGE

IN WITNESS THEREOF, the parties have hereunto set their hands and seals, and such of them as are corporations have caused these presents to be signed by their duly authorized officers.

THE COUNTY OF NASSAU

By _____
County Executive
Party of the First Part

ATTEST: _____
Clerk, Nassau County Legislature

Approved: _____ SSC
Office of the Commissioner

The Land Tek Group Inc Contractor

Corporate Seal

By _____ L.S.
Party of the Second Part

APPROVED AS PER CHARTER

_____
Deputy County Attorney

Approved: _____ 12/29/10
Bureau of Real Estate & Insurance

Agree H&GE REQ

NO TEXT ON THIS PAGE

STATE OF NEW YORK)
) ss.:
COUNTY OF NASSAU)

On this day of , 200 , before me personally appeared EDWARD P. MANGANO, County Executive of the County of Nassau, the municipal corporation described herein, and who executed the foregoing instrument, to me known and known to me to be such County Executive and he being by me duly sworn, did depose and say: That he is the County Executive of Nassau County; and that he executed the same as such County Executive for the purposes therein mentioned.

Notary Public

STATE OF NEW YORK)
)ss.:
COUNTY OF NASSAU)

On this 22 day of January , 2015, before me personally appeared Richard R Walker, Deputy County Executive of the County of Nassau, the municipal corporation described herein and who executed the foregoing instrument, to me known and known to me to be such Deputy County Executive, and she by me being duly sworn, did depose and say: That she is the Deputy County Executive of the County of Nassau and that pursuant to Section 205 of the County Government Law of Nassau County executed the same as such Deputy County Executive for the purposes therein mentioned.

Concetta A. Petrucci

Notary Public

CONCETTA A PETRUCCI
Notary Public, State of New York
No. 01PE6259026
Qualified in Nassau County
Commission Expires April 02, 2016

NO TEXT ON THIS PAGE

(Acknowledgment by Contractor if a Corporation)

STATE OF NEW YORK)
)ss.:
COUNTY OF NASSAU)

On this 2nd day of December, 2014, before me personally came [redacted], to me known, who being by me duly sworn, did depose and say: That he/she resides at [redacted]; That he/she is the Vice President of the LandTek Group Inc., the Corporation described herein; That he/she which executed the foregoing instrument for said Corporation; That he/she knows the seal of said corporation; That the seal affixed to said instrument is such Corporate Seal; That it was so affixed by order of the Board of Directors of said Corporation, That he/she signed his/her name thereto by like order.

LAURA A STEIN
Notary Public - State of New York
NO. 01ST6179595
Qualified in Nassau County
My Commission Expires 12/24/15

Notary Public

(Acknowledgment by Contractor if a Company)

STATE OF NEW YORK)
)ss.:
COUNTY OF NASSAU)

On this day of , 200 , before me personally came , known to be a partner of the firm of , the firm described in the foregoing instrument and he/she duly acknowledged that he/she executed the same as for the act and deed of said firm.

Notary Public

(Acknowledgment by Contractor if an Individual)

STATE OF NEW YORK)
)ss.:
COUNTY OF NASSAU)

On this day of , 200 , before me personally came , to me known and known to me to be the person described herein, who executed the foregoing instrument and he/she duly acknowledge to me that he/she executed the same.

Notary Public

CONTRACT ADVISEMENT FORM
NUMIS. No. 550

Agree H&GE REQ

COUNTY OF NASSAU

CONTRACT ADVISEMENT CHPW140000033

DATE OF ADVISEMENT MO (2)	DY (2)	YR (2)	FUND (3)	TRANSACTION CODE ENTER	MODIFY	CANCEL	ENCUMBRANCE NUMBER	DEPT (2)	CONTRACT / AGREEMENT NUMBER
12	23	14	CAP	☑	☐	☐	CHPW140000.33	PW	H66302 U

VENDOR INFO.

ID: 112945683

Name: (30) The LandTek Group, Inc.

Address: (30) 235 County Line Road

(30) Amityville, NY 11701

LINE NO.	PROJECT NUMBER (CAPITAL)	PROJECT DETAIL	INDEX CODE	SUB-OBJECT CODE		LINE AMOUNT	
(E)	67587	PAV	PWCAPCAP	00004		450,000	00
1	66017	000	PWCAPCAP	00004		250,000	00
2	66302	SAC	PWCAPCAP	00004		800,000	00
3	66050	000	PWCAPCAP	00004		200,000	00
4	41869	000	PWCAPCAP	00004		1,000,000	00
DOCUMENT DESCRIPTION: (30) (5)	61587	SAN001	PWCAPCAP	00004	TOTAL AMOUNT	4,000,000	00

COMMENTS

DEPARTMENT PREPARED BY

NAME 12-23-2014

DATE

PHONE

DEPARTMENT APPROVED BY

NAME

DATE

TITLE

COMPTROLLER'S PRE-ENCUMBRANCE CERTIFICATION

I hereby certify that sufficient funds are available in the appropriations to be charged.

CONTRACT NUMBER

NAME

DATE

TITLE

DATE OF ENCUMBRANCE (MMDD)

I certify that this document was encumbered on this date.

NAME

DATE

CHECK IF THIS DOCUMENT IS CONTINUED

PAGE

NUMIS 650 (11/83) 20M WHITE = COMPTROLLER COPY PINK = DEPARTMENT COPY CO-677. 10/91 rev.9/06

COUNTY OF NASSAU

CONTRACT ADVISEMENT CHPW140000033

DATE OF ADVISEMENT MO (2)	DY (2)	YR (2)	FUND (3)	TRANSACTION CODE ENTER	MODIFY	CANCEL	ENCUMBRANCE NUMBER	DEPT (2)	CONTRACT / AGREEMENT NUMBER
12	23	14	CAP	☑	☐	☐	CHPW140000033	PW	H66302U

VENDOR INFO.

ID: 112945683

Name: (30) The LandTek Group, Inc.

Address: (30) 235 County Line Road

(30) Amityville, NY 11701

APPROVED: Q. Ahmad 12/29/14 (DATE)

INSURANCE SECTION

LINE NO.	PROJECT NUMBER (CAPITAL)	PROJECT DETAIL	INDEX CODE	SUB-OBJECT CODE		LINE AMOUNT	
(6)	67587	PAV	PWCAPCAP	00004		450,000	00
1	66017	000	PWCAPCAP	00004		250,000	00
2	66302	SAC	PWCAPCAP	00004		800,000	00
3	66050	000	PWCAPCAP	00004		200,000	00
4	41869	000	PWCAPCAP	00004		1,000,000	00
DOCUMENT DESCRIPTION: (30) (5)	61587	SAN001	PWCAPCAP	00004	TOTAL AMOUNT $	4,300,000	00
						4,000,000	00

COMMENTS:

Acct: General Improvements - Contract

For Various Contract Services Throughout

the Bridges, Tunnels, Buildings

Parking Lots, Park Related

Specialized Items

Nassau County, NY (Work)

Contract No. H66302U

DEPARTMENT - PREPARED BY:

Lorette Dimisio

NAME

12-23-2014

DATE

516 571 9634

PHONE

DEPARTMENT - APPROVED BY:

K Arnold

Asst Ad Comm

TITLE

12/26/14

DATE

COMPTROLLER'S CERTIFICATION:

I hereby certify that an unencumbered balance sufficient to cover this contract is present in the appropriation to be charged. SB 1/9/15

CONTRACT NUMBER:

CHPW140000033

NAME

Deputy Comptroller

TITLE

1/15/15

DATE

CERTIFICATE OF ACCEPTANCE INTO NUMIS

I certify that this document was accepted into NUMIS

NAME

1/16/15

DATE

CHECK IF THIS DOCUMENT IS CONTINUED:

PAGE ___ OF ___

NUMIS 550 (11/83) 20M WHITE = COMPTROLLER COPY PINK = DEPARTMENT COPY CO-677. 10/91 rev.9/06

COUNTY OF NASSAU

CONTRACT ADVISEMENT CHPW140000033

DATE OF ADVISEMENT MO (2)	DY (2)	YR (2)	FUND (3)	TRANSACTION CODE ENTER	MODIFY	CANCEL	ENCUMBRANCE NUMBER	DEPT (2)	CONTRACT / AGREEMENT NUMBER
12	23	14	CAP	☑	☐	☐	CHPW140000033	PW	H66302 U

VENDOR INFO.

ID: 112945683

Name: (30) The Landtek Group, Inc.

Address: (30) 235 County Line Road

(30) Amityville, NY 11701

D. Amato 12/29/14

LINE NO.	PROJECT NUMBER (CAPITAL)	PROJECT DETAIL	INDEX CODE	SUB-OBJECT CODE		LINE AMOUNT	
(6)	61587	PAV	PWCAPCAP	00004		450,000	00
1	66017	000	PWCAPCAP	00004		250,000	00
2	66302	SAC	PWCAPCAP	00004		800,000	00
3	66050	000	PWCAPCAP	00004		200,000	00
4	41869	000	PWCAPCAP	00004		1,000,000	00
DOCUMENT DESCRIPTION: (30) (5)	61587	SAN001	PWCAPCAP	00004	TOTAL AMOUNT	4,000,000	00

COMMENTS

Old Contract H66302 Encumbrance CHPW140000033

Parking Lots & Pave Various CRs

Sanitary Sewer Improvements

Nassau County, New York

Contract No. H66302U

DEPARTMENT - PREPARED BY: Loretta Dionisio

NAME 12-23-2014

DATE 516 571 9634

PHONE

DEPARTMENT - APPROVED BY: K Donnelly

NAME Asst Comm

TITLE 12/29/14

DATE

COMPTROLLER'S OFFICE CERTIFICATION: I hereby Certify that an unencumbered balance sufficient to cover this contract is present in the appropriation to be charged.

CONTRACT NUMBER CHPW140000033

NAME

TITLE

DATE

CERTIFICATE OF ACCEPTANCE INTO NUMIS: I certify that this document was accepted into NUMIS

NAME

DATE 1/16/15

CHECK IF THIS DOCUMENT IS CONTINUED: ☐

PAGE ____ OF ____

NUMIS 550 (11/83) 20M WHITE = COMPTROLLER COPY PINK = DEPARTMENT COPY CO-677. 10/91 rev.9/06

CONTRACTOR'S INSURANCE
WORKER'S COMPENSATION INSURANCE

OWNERS PROTECTIVE

Agree H&GE REQ

NO TEXT ON THIS PAGE

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 11/4/2014

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: James A. Cafarelli	
Cafarelli Insurance Agency 1030 Jericho Turnpike Smithtown NY 11787	PHONE (A/C, No, Ext): (631) 543-6363	FAX (A/C, No): (631) 543-4891
	E-MAIL ADDRESS:	

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A: Transportation Ins.	20494
INSURER B: Continental Casualty	20443
INSURER C: Scottsdale Indemnity Company	15580
INSURER D:	
INSURER E:	
INSURER F:	

INSURED
The LandTek Group, Inc.
235 County Line Road
Amityville NY 11701

COVERAGES CERTIFICATE NUMBER: CL1451802328 REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR X Contractual Liability X Waiver Of Subrogation GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT LOC	X		2083094906 XCU Coverage Included Property Damage Coverage Included	5/20/2014	5/20/2015	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 500,000 $ 10,000 $ 1,000,000 $ 2,000,000 $ 2,000,000
B	AUTOMOBILE LIABILITY X ANY AUTO X ALL OWNED AUTOS X SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS			2083094923	5/20/2014	5/20/2015	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) Waiver of Subrogation	$ 1,000,000 $ $ $ $
C	X UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED X RETENTION $ 10,000			NXI0000046	5/20/2014	5/20/2015	EACH OCCURRENCE AGGREGATE	$ 10,000,000 $ 10,000,000
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y/N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A					WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ $ $

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
Re: 2014 General Requirements Contract for Various Civil/Site Reconstruction Highways, Drainage, Bridges, Site, Parking Lots & Park Related Specialized Items, Nassau County, NY
The County of Nassau, all Municipalities, Municipal Sub-Divisions & Fee Owners of Properties & Consultants are included as an Additional Insured as required by written contract.

CERTIFICATE HOLDER

County of Nassau
Department of Public Works
1194 Prospect Avenue
Westbury, NY 11590-2723

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

James Cafarelli/JEN

ACORD 25 (2010/05)
INS025 (201005).01
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STATE OF NEW YORK
WORKERS' COMPENSATION BOARD

CERTIFICATE OF NYS WORKERS' COMPENSATION INSURANCE COVERAGE

1a. Legal Name & Address of Insured (Use street address only) *The LandTek Group, Inc.* *235 County Line Road* *Amityville, NY 11701* **Work Location of Insured** ***(Only required if coverage is specifically limited to certain locations in New York State, i.e., a Wrap-Up Policy)***	**1b. Business Telephone Number of Insured** *631-691-2381* **1c. NYS Unemployment Insurance Employer Registration Number of Insured** *8521471* **1d. Federal Employer Identification Number of Insured or Social Security Number:** *11-2945683*
2. Name and Address of the Entity Requesting Proof of Coverage (Entity Being Listed as the Certificate Holder) **County of Nassau** **Department of Public Works** **1194 Prospect Avenue** **Westbury, NY 11590-2723**	**3a. Name of Insurance Carrier** *American Casualty Of Reading, PA* **3b. Policy Number of entity listed in box "1a"** *4025772949* **3c. Policy effective period** *05/20/2014* to *05/20/2015* **3d. The Proprietor, Partners or Executive Officers are** X **included.** (Only check box if all partners/officers included) ☐ **all excluded or certain partners/officers excluded.**

This certifies that the insurance carrier indicated above in box "3" insures the business referenced above in box "1a" for workers' compensation under the New York State Workers' Compensation Law. (To use this form, New York (NY) must be listed under Item 3A on the INFORMATION PAGE of the workers' compensation insurance policy). The Insurance Carrier or its licensed agent will send this Certificate of Insurance to the entity listed above as the certificate holder in box "2".

The Insurance Carrier will also notify the above certificate holder within 10 days IF a policy is canceled due to nonpayment of premiums or within 30 days IF there are reasons other than nonpayment of premiums that cancel the policy or eliminate the insured from the coverage indicated on this Certificate. (These notices may be sent by regular mail.) Otherwise, this Certificate is valid for one year after this form is approved by the insurance carrier or its licensed agent, or until the policy expiration date listed in box "3c", whichever is earlier.

Please Note: Upon the cancellation of the workers' compensation policy indicated on this form, if the business continues to be named on a permit, license or contract issued by a certificate holder, the business must provide that certificate holder with a new Certificate of Workers' Compensation Coverage or other authorized proof that the business is complying with the mandatory coverage requirements of the New York State Workers' Compensation Law.

Under penalty of perjury, I certify that I am an authorized representative or licensed agent of the insurance carrier referenced above and that the named insured has the coverage as depicted on this form.

Approved by: James A. Cafarelli
(Print name of authorized representative or licensed agent of insurance carrier)

Approved by: James A. Cafarelli 11/04/2014
(Signature) (Date)

Title: Licensed Agent

Telephone Number of authorized representative or licensed agent of insurance carrier: 631-543-6363

Please Note: Only insurance carriers and their licensed agents are authorized to issue Form C-105.2. Insurance brokers are NOT authorized to issue it.

Workers' Compensation Law

Section 57. Restriction on issue of permits and the entering into contracts unless compensation is secured.

1. The head of a state or municipal department, board, commission or office authorized or required by law to issue any permit for or in connection with any work involving the employment of employees in a hazardous employment defined by this chapter, and notwithstanding any general or special statute requiring or authorizing the issue of such permits, shall not issue such permit unless proof duly subscribed by an insurance carrier is produced in a form satisfactory to the chair, that compensation for all employees has been secured as provided by this chapter. Nothing herein, however, shall be construed as creating any liability on the part of such state or municipal department, board, commission or office to pay any compensation to any such employee if so employed.

2. The head of a state or municipal department, board, commission or office authorized or required by law to enter into any contract for or in connection with any work involving the employment of employees in a hazardous employment defined by this chapter, notwithstanding any general or special statute requiring or authorizing any such contract, shall not enter into any such contract unless proof duly subscribed by an insurance carrier is produced in a form satisfactory to the chair, that compensation for all employees has been secured as provided by this chapter.

STATE OF NEW YORK
WORKERS' COMPENSATION BOARD

CERTIFICATE OF INSURANCE COVERAGE UNDER THE NYS DISABILITY BENEFITS LAW

PART 1. To be completed by Disability Benefits Carrier or Licensed Insurance Agent of that Carrier

1a. Legal Name and Address of Insured (Use street address only)	1b. Business Telephone Number of Insured 631-291-2381 1c. NYS Unemployment Insurance Employer Registration Number of Insured 8521471 1d. Federal Employer Identification Number of Insured or Social Security Number 112945683
THE LANDTEK GROUP INC. 295 COUNTYLINE ROAD AMITYVILLE, NY 11701	
2. Name and Address of the Entity Requesting Proof of Coverage (Entity Being Listed as the Certificate Holder) County of Nassau Department of Public Works 1194 Prospect Avenue Westbury, NY 11590-2723	3a. Name of Insurance Carrier HARTFORD LIFE INSURANCE CO. 3b. Policy Number of entity listed in box "1a": 2P81262A2AA 3c. Policy effective period: 01-01-2014 to 12-31-2014

4. Policy covers:

a. ☑ All of the employer's employees eligible under the New York Disability Benefits Law

b. ☐ Only the following class or classes of the employer's employees:

Under penalty of perjury, I certify that I am an authorized representative or licensed agent of the insurance carrier referenced above and that the named insured has NYS Disability Benefits insurance coverage as described above.

Date Signed 11-04-2014 By _____

(Signature of insurance carrier's authorized representative or NYS Licensed Insurance Agent of that insurance carrier)

Telephone Number (800) 454-7020 Title Manager

IMPORTANT: If box "4a" is checked, and this form is signed by the insurance carrier's authorized representative or NYS Licensed Insurance Agent of that carrier, this certificate is COMPLETE. Mail it directly to the certificate holder.
If box "4b" is checked, this certificate is NOT COMPLETE for purposes of Section 220, Subd. 8 of the Disability Benefits Law. It must be mailed for completion to the Workers' Compensation Board, DB Plans Acceptance Unit, 20 Park Street, Albany, New York 12207.

PART 2. To be completed by NYS Workers' Compensation Board (Only if box "4b" of Part 1 has been checked)

State Of New York
Workers' Compensation Board

According to information maintained by the NYS Workers' Compensation Board, the above-named employer has complied with the NYS Disability Benefits Law with respect to all of his/her employees.

Date Signed _____ By _____

(Signature of NYS Workers' Compensation Board Employee)

Telephone Number _____ Title _____

Please Note: Only insurance carriers licensed to write NYS disability benefits insurance policies and NYS licensed insurance agents of those insurance carriers are authorized to issue Form DB-120.1. Insurance brokers are NOT authorized to issue this form.

Additional Instructions for Form DB-120.1

By signing this form, the insurance carrier identified in box "3" on this form is certifying that it is insuring the business referenced in box "1a" for disability benefits under the New York State Disability Benefits Law. The Insurance Carrier or its licensed agent will send this Certificate of Insurance to the entity listed as the certificate holder in box "2". *This Certificate is valid for the earlier of one year after this form is approved by the insurance carrier or its licensed agent, or the policy expiration date listed in box "3c".*

Please Note: Upon the cancellation of the disability benefits policy indicated on this form, if the business continues to be named on a permit, license or contract issued by a certificate holder, the business must provide that certificate holder with a new Certificate of NYS Disability Benefits Coverage or other authorized proof that the business is complying with the mandatory coverage requirements of the New York State Disability Benefits Law.

DISABILITY BENEFITS LAW

§220. Subd. 8

(a) The head of a state or municipal department, board, commission or office authorized or required by law to issue any permit for or in connection with any work involving the employment of employees in employment as defined in this article, and not withstanding any general or special statute requiring or authorizing the issue of such permits, shall not issue such permit unless proof duly subscribed by an insurance carrier is produced in a form satisfactory to the chair, that the payment of disability benefits for all employees has been secured as provided by this article. Nothing herein, however, shall be construed as creating any liability on the part of such state or municipal department, board, commission or office to pay any disability benefits to any such employee if so employed.

(b) The head of a state or municipal department, board, commission or office authorized or required by law to enter into any contract for or in connection with any work involving the employment of employees in employment as defined in this article, and notwithstanding any general or special statute requiring or authorizing any such contract, shall not enter into any such contract unless proof duly subscribed by an insurance carrier is produced in a form satisfactory to the chair, that the payment of disability benefits for all employees has been secured as provided by this article.

FORM OF PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS,

that The LandTek Group, Inc. (hereinafter called the "Contractor") and The Hanover Insurance Company a corporation created and existing under the laws of the State of NH, and licensed to do business in the State of New York, having its principal office in the city of Somerset, NJ (hereinafter called the "Surety"), are held firmly bound unto the COUNTY OF NASSAU, a municipal corporation of the State of New York (hereinafter called the "Owner"), in the full and just sum of

One Million Five Hundred Thousand Dollars and 00/100 Dollars (1,500,000.00) good and lawful money of the United States of America, to the payment of which said sum of money, will and truly to be made and done, the said Contractor binds themselves (himself, itself), their (his, its) heirs, executors and administrators, successors and assigns, and the said Surety binds itself, its successors and assigns jointly and severally, firmly by these presents.

Signed, sealed and dated this 6 day of November, 2014

WHEREAS, said Contractor has entered into a certain written contract, bearing even date with these premises with the COUNTY OF NASSAU, for the

Contravt No.H66302U, 2014 General Requirements Contract for Various Civil/Site Reconstruction Highways, Drainage, Bridges, Site, Parking Lots and Park Related Specialized Items

which contract is hereby made a part of this bond as if herein set forth in full.

NOW, THEREFORE, THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH, that if the said Contractor shall well, truly and faithfully comply with and perform all the terms, covenants and conditions of said contract on their (his, its) part to be kept and performed, according to the true intent and meaning of said contract, and shall protect the said Owner against, and pay any and all amounts, damages, cost and judgments which may or shall be recovered against said Owner or its officers or agents or which the said Owner may be called upon to pay to any person or corporation by reason of any damages arising or growing out of the doing of said work, or the manner of doing the same, or the neglect of the said Contractor or his (their, its) agents or servants, or the improper performance of the said work by the said Contractor, or his (their, its) agents or servants, or the infringement of any or patent rights by

reason of the use of any materials furnished or work done as aforesaid or otherwise, and

also pay or cause to be paid the wages and compensation for labor performed and services rendered of all persons engaged in the prosecution of the work provided for therein, whether such persons be agents, servants or employees of the contractor, or his (their, its) successors or of any subcontractor or of any assignee thereof, (including all persons so engaged who perform the work of laborers or of mechanics regardless of any contractual relationship between the Contractor, or his (their, its) successors, or assigns, or any subcontractor or any assignee thereof) and such laborers or mechanics; but not including office employees not regularly stationed at the site of the work, and, further, shall pay or cause to be paid all lawful claims of subcontractors and of material men and other third persons arising out of or in connection with said Contract, and the work, labor, services, supplies and material furnished in and about the performance and completion thereof,

then this obligation shall be null and void, otherwise to remain in full force and virtue.

And the said Surety, for value received, hereby stipulates and agrees, if requested to do so by the Owner to fully perform and complete the work mentioned and described in said contract and specifications, pursuant to the terms, conditions and covenants thereof, if for any cause, said Contractor fails or neglects to so fully perform and complete said work, and said Surety further agrees to commence said work of completion within twenty days after notice thereof from the Owner, and to complete the same within twenty days from the expiration of the time allowed said Contractor in said contract and specifications for the completion of said work. When the contractor is declared in default by the Commissioner, the Surety Company must honor default notice and immediately progress the work to completion in the same manner as though the contractor were bankrupt or had willfully defaulted.

And the Surety, for value received, for itself and its successors and assigns, hereby stipulates and agrees that the obligations of said Surety and of its successors and assigns, and this bond shall in no way be impaired or affected by any extension of time, modification, omission, addition or change in or to the said contract or the work to be performed thereunder, or by any payment thereunder before the time required therein, or by any waiver of any provision thereof, or by any assignment, subletting or other transfer thereof, or any part thereof, or of any work to be performed, or of any moneys due or to become due thereunder; and the said Surety for itself and its successors and assigns, does hereby waive notice of any and all of such extensions, modifications, omissions, additions, changes, payments, waivers, assignments, subcontracts, and transfers, and hereby stipulates and agrees that any and all things done or omitted to be done by and in relation to the executors, administrators, successors, assignees, subcontractors and other transferee of the Contract shall have the same effect as to said Surety and its successors and assigns, as though done

or omitted to be done by and in relation to said Contractor.

IN TESTIMONY WHEREOF, the said Contractor has hereunto set his (their, its) hand and seal and the said Surety has caused this instrument to be signed by its duly authorized officer (s) or representative (s), and its corporate seal to be hereunto affixed, the day and year first above written.

The LandTek Group, Inc.
Contractor

by _____ (L.S.) (Corporate seal of Contractor if a corporation)
Michael Ryan, President

by _____ (L.S.)
Title

by _____ (L.S.)
Title

The Hanover Insurance Company
Surety

by _____ (L.S.)
Tara Laverdiere, Attorney-in-Fact
Title of Officer

Attest: _____ (L.S.) (Corporate seal of Surety)
Title of Officer

(Acknowledgment by Contractor if a corporation)

STATE OF NY)

)

ss.:
COUNTY OF Suffolk)

On this 7th day of November, 2014, before me personally came Michael Ryan to me known, who, being by me duly sworn, did depose and say for himself, that he resides in West Islip, NY that he is the President of the The LandTek Group, Inc. the corporation described in, and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that he signed his name thereto by like order.

Melissa G Kraus
Notary Public

MELISSA GRACE KRAUS
Notary Public - State of New York
NO. 01KR6240652
Qualified in Suffolk County
My Commission Expires 5-2-15

(Acknowledgment by Contractor if a partnership)

STATE OF _____)

)

ss.:
COUNTY OF _____)

On this day of , 20 , before me personally came to me known and known to me to be a member of the firm described in and which executed the foregoing bond or obligation, and he acknowledged to me that he subscribed the name of said firm thereto on behalf of said firm for the purpose therein mentioned.

_____
Notary Public

(Acknowledgment by Contractor if an individual.)

STATE OF _____)

)

ss.:
COUNTY OF _____)

On this day of , 20 , before me personally came to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged that he executed the same.

_____
Notary Public

(Acknowledgment by Surety Company)

STATE OF New York)

)

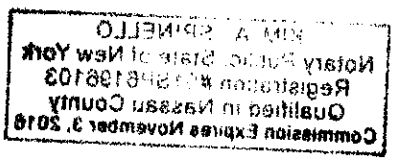
ss.:
COUNTY OF Nassau)

On this 6 day of November , 2014 , before personally came Tara Laverdiere to me Known, who being by me duly sworn, did depose and say that he resides in North Bellmore, NY

that he is the Atorney-in-fact of the The Hanover Insurance Company , the corporation described in and which executed the within instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by the order of the Board of Directors of said corporation, and that he signed his name thereto by like order; and that the liabilities of said company do not exceed its assets as ascertained in the manner provided by the laws of the State of New York, and the said Notary further said that he is acquainted with Tara Laverdiere and knows him to be the Atorney-in-Fact of said company; that the signature of the said Tara Laverdiere subscribed to the within instrument is in the genuine handwriting of the said Tara Laverdiere and was subscribed thereto by like order of the Board of Directors, and in the presence of him, the said Notary .

KIM A. SPINELLO
Notary Public, State of New York
Registration #01SP6196103
Qualified In Nassau County
Commission Expires November 3, 2016

Notary Public


Notary Public, State of New York
Qualified in Nassau County
Commission Expires November 3, 2016

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POWER OF ATTORNEY

FINANCIAL STATEMENT

THE HANOVER INSURANCE COMPANY
MASSACHUSETTS BAY INSURANCE COMPANY
CITIZENS INSURANCE COMPANY OF AMERICA

POWERS OF ATTORNEY
CERTIFIED COPY

KNOW ALL MEN BY THESE PRESENTS: That THE HANOVER INSURANCE COMPANY and MASSACHUSETTS BAY INSURANCE COMPANY, both being corporations organized and existing under the laws of the State of New Hampshire, and CITIZENS INSURANCE COMPANY OF AMERICA, a corporation organized and existing under the laws of the State of Michigan, do hereby constitute and appoint

Tara Laverdiere, Philip G. Samuels, Denese Thompson, Tara Laverdiere, Kim Spinello, Louis J. Spina, Marnie Ginsberg and/or Frank Abbatiello

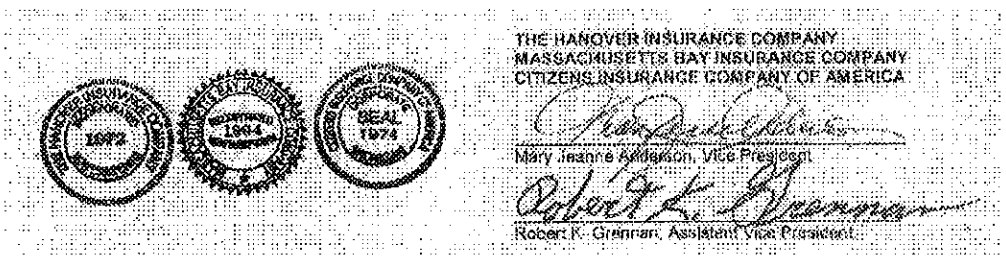
of **Garden City, NY** and each is a true and lawful Attorney(s)-in-fact to sign, execute, seal, acknowledge and deliver for, and on its behalf, and as its act and deed any place within the United States, or, if the following line be filled in, only within the area therein designated

any and all bonds, recognizances, undertakings, contracts of indemnity or other writings obligatory in the nature thereof, as follows:
Any such obligations in the United States, not to exceed Ten Million and No/100 ($10,000,000) in any single instance

and said companies hereby ratify and confirm all and whatsoever said Attorney(s)-in-fact may lawfully do in the premises by virtue of these presents. These appointments are made under and by authority of the following Resolution passed by the Board of Directors of said Companies which resolutions are still in effect:

"RESOLVED, That the President or any Vice President, in conjunction with any Assistant Vice President, be and they are hereby authorized and empowered to appoint Attorneys-in-fact of the Company, in its name and as its acts, to execute and acknowledge for and on its behalf as Surety any and all bonds, recognizances, contracts of indemnity, waivers of citation and all other writings obligatory in the nature thereof, with power to attach thereto the seal of the Company. Any such writings so executed by such Attorneys-in-fact shall be as binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company in their own proper persons." (Adopted October 7, 1981 - The Hanover Insurance Company; Adopted April 14, 1982 – Massachusetts Bay Insurance Company; Adopted September 7, 2001 - Citizens Insurance Company of America)

IN WITNESS WHEREOF, THE HANOVER INSURANCE COMPANY, MASSACHUSETTS BAY INSURANCE COMPANY and CITIZENS INSURANCE COMPANY OF AMERICA have caused these presents to be sealed with their respective corporate seals, duly attested by a Vice President and an Assistant Vice President, this **25th** day of **August 2010**.



THE COMMONWEALTH OF MASSACHUSETTS)
COUNTY OF WORCESTER) ss.

On this **25th** day of **August 2010**, before me came the above named Vice President and Assistant Vice President of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America, to me personally known to be the individuals and officers described herein, and acknowledged that the seals affixed to the preceding instrument are the corporate seals of The Hanover Insurance Company Massachusetts Bay Insurance Company and Citizens Insurance Company of America, respectively, and that the said corporate seals and their signatures as officers were duly affixed and subscribed to said instrument by the authority and direction of said Corporations.

Barbara A. Garlick
Notary Public

My commission expires on November 3, 2011

I, the undersigned Assistant Vice President of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America, hereby certify that the above and foregoing is a full, true and correct copy of the Original Power of Attorney issued by said Companies, and do hereby further certify that the said Powers of Attorney are still in force and effect.

This Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America.

"RESOLVED, That any and all Powers of Attorney and Certified Copies of such Powers of Attorney and certification in respect thereto, granted and executed by the President or any Vice President in conjunction with any Assistant Vice President of the Company, shall be binding on the Company to the same extent as if all signatures therein were manually affixed, even though one or more of any such signatures thereon may be facsimile." (Adopted October 7, 1981 - The Hanover Insurance Company; Adopted April 14, 1982 Massachusetts Bay Insurance Company; Adopted September 7, 2001 - Citizens Insurance Company of America)

GIVEN under my hand and the seals of said Companies, at Worcester, Massachusetts, this 6 day of November , 20 14

THE HANOVER INSURANCE COMPANY
MASSACHUSETTS BAY INSURANCE COMPANY
CITIZENS INSURANCE COMPANY OF AMERICA

Stephen C. Brault, Assistant Vice President

The Hanover Insurance Company, Bedford, New Hampshire
Financial Statement as of December 31, 2013

ASSETS		2013
Cash in Banks (Including Short-Term investments)		$ 50,894,228
Bonds and Stocks		$ 4,711,827,363
Other Admitted Assets		$ 1,284,421,678
Total Admitted Assets		$ 6,047,143,269

LIABILITIES, CAPITAL AND SURPLUS		
Reserve for Unearned Premiums		$ 1,350,588,326
Reserve for Loss and Loss Expense		$ 2,264,133,905
Reserve for Taxes		0
Funds held under reinsurance treaties		$ 5,856,574
Reserve for all other liabilities		$ 596,875,901
Capital Stock - $1.00 par	$ 5,000,000	
Net Surplus	$ 1,824,688,563	
Policyholders' Surplus		$ 1,829,688,563
Total Liabilities, Capital and Surplus		$ 6,047,143,269

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF WORCESTER } s.s.:

Joseph Pedorella, Asst. Treasurer of The Hanover Insurance Company, being duly sworn deposes and says that he is the above described officer of said Company, and certifies that the foregoing statement is a true statement of the condition and affairs of the said Company on December 31, 2013.

Joseph Pedorella
Asst. Treasurer

CERTIFICATE OF SOLVENCY UNDER SECTION 1111 OF THE NEW YORK INSURANCE LAW

STATE OF NEW YORK

DEPARTMENT OF FINANCIAL SERVICES

It is hereby certified that

THE HANOVER INSURANCE COMPANY

Of Bedford, New Hampshire

a corporation organized under the laws of the State of New Hampshire and duly authorized to transact the business of insurance in this State, is qualified to become surety or guarantor on all bonds, undertakings, recognizances, guaranties and other obligations required or permitted by law; and that the said corporation is possessed of a capital and surplus including gross paid-in and contributed surplus and unassigned funds (surplus) aggregating the sum of $1,829,688,563 (Capital $5,000,000) as is shown by its sworn financial statement for the end of the year as of December 31, 2013, on file in this Department, prior to audit.

The said corporation cannot lawfully expose itself to loss on any one risk or hazard to an amount exceeding 10% of its surplus to policyholders, unless it shall be protected in excess of that amount in the manner provided in Section 4118 of the Insurance Law of this State.

In Witness Whereof, I have hereunto set my hand and affixed the official seal of this Department at the City of Albany, this 10th day of April, 2014

Benjamin M. Lawsky
Superintendent

By Jacqueline Catalfamo

Jacqueline Catalfamo
Special Deputy Superintendent

www.dfs.ny.gov

FORM OF LABOR AND MATERIAL PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS:

that The LandTek Group, Inc. as Principal,
(Here insert the name and address, or legal title, of the Contractor)

235 County Line Ave., Amityville, NY 11701,

hereinafter called Principal, and The Hanover Insurance Company,

a corporation of the State of NH, and licensed to do business in the State of New York, with its home office in

400 Atrium Dr., Somerset, NJ, as Surety, hereinafter called Surety, are held and firmly bound unto the County of Nassau, as Obligee, hereinafter called Owner, for the use and benefit of claimants as herein below defined, in the amount of

One Million Five Hundred Thousand Dollars and 00/100 Dollars ($1,500,000.00)
(Here insert a sum equal to the contract price), for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS,

Principal has by written agreement dated _____ entered into a contract with Owner for,

Contract No. H66302U, 2014 Requirements Contract for Various Civil/Site Reconstruction Highways, Draiange, Bridges, Site, Parking Lots and Park Related Specialized Items,

which contract is by reference made a part hereof, and is hereafter referred to as the CONTRACT.

NOW THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that, if the Principal shall promptly make payment to all claimants as hereinafter defined, for all labor and material used or reasonably required for use in the performance of the CONTRACT, then this obligation shall be void; otherwise it shall remain in full force and effect, subject, however, to the following conditions:

1. A claimant is defined as one having a direct contract with the Principal or with a sub-contractor of the Principal for labor, material, or both, used or reasonably required for use in the performance of the contract, labor and material being construed to include that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental of equipment directly applicable to the CONTRACT.

2. The above named Principal, and Surety hereby jointly and severally agree with the Owner that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after the date on which the last of such claimant's work or labor was done or performed, or materials were furnished by such claimant, may sue on this bond for the use of such claimant in the name of the Owner, prosecute the suit to final judgment for such sum or sums as may be justly due claimant, and have execution thereon, provided, however, that the Owner shall not be liable for the payment of any cost or expenses of any such suit.

3. No suit or action shall be commenced hereunder by any claimant.
   a. Unless claimant shall have given written notice to the following: Principal, the Owner, and the Surety above named, within ninety(90) days after such claimant did or performed the last of the work or labor, or furnished the last of the materials for which said claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the work or labor was done or performed. Such notice shall be served by mailing the same by registered mail, postage prepaid, in an envelope addressed to the Principal, Owner and Surety, at any place where an office is regularly maintained for the transaction of business, or served in any manner in which legal process may be served in the state in which the aforesaid project is located, save that such service need not be made by a public officer.
   b. After the expiration of one (1) year following the date on which Principal ceased work on said CONTRACT.
   c. Other than in a court of competent jurisdiction in and for the County of Nassau.

4. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics liens which may be filed of record against said improvement, whether or not claim for the amount of such lien be presented under and against this bond.

Signed and sealed this 6 day of November 20 14

The LandTek Group, Inc.
Contractor

by _____ (L.S.)

Michael Ryan, President
by _____ (L.S.)

(Corporate seal of Contractor
Title if a corporation)

Title

The Hanover Insurance Company
Surety

by _____ (L.S.)
Title of Officer Tara Laverdiere, Attorney-in-Fact

Attest: _____ (L.S.)
Title of Officer

(Corporate seal of Surety)

(Acknowledgment by Contractor if a corporation)

STATE OF NY)

)

ss.:
COUNTY OF Suffolk)

On this 7th day of November, 2014, before me personally came to me known, who, being by me duly sworn, did depose and say for himself, that he resides in West Islip, NY that he is the President of the The Landtek Group, Inc. the corporation described in, and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that he signed his name thereto by like order.

Melissa G Kraus
Notary Public

MELISSA GRACE KRAUS
Notary Public - State of New York
NO. 01KR6240652
Qualified in Suffolk County
My Commission Expires 5-2-15

(Acknowledgment by Contractor if a partnership)

STATE OF _____)

ss.:
COUNTY OF _____)

On this day of , 20 , before me personally came to me known and known to me to be a member of the firm described in and which executed the foregoing bond or obligation, and he acknowledged to me that he subscribed the name of said firm thereto on behalf of said firm for the purpose therein mentioned.

_____
Notary Public

(Acknowledgment by Contractor if an individual.)

STATE OF _____)
)
ss.:
COUNTY OF _____)

On this day of , 20 , before me personally came to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged that he executed the same.

_____Notary Public

(Acknowledgment by Surety Company)

STATE OF New York)
)
ss.:
COUNTY OF Nassau)

On this 6 day of November , 2014 , before me personally came Tara Laverdiere to me Known, who being by me duly sworn, did depose and say that he resides in North Bellmore, NY

that he is the Attorney-in-fact of the The Hanover Insurance Company , the corporation described in and which executed the within instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by the order of the Board of Directors of said corporation, and that he signed his name thereto by like order; and that the liabilities of said company do not exceed its assets as ascertained in the manner provided by the laws of the State of New York, and the said Notary further said that he is acquainted with Tara Laverdiere and knows him to be the Attorney-in-Fact of said company; that the signature of the said Tara Laverdiere and was subscribed thereto by like order of the Board of Directors, and in the presence of him, the said Notary .

KIM A. SPINELLO
Notary Public, State of New York
Registration #01SP6196103
Qualified In Nassau County
Commission Expires November 3, 2018

Kim A. Spinello
Notary Public

KIM A. SPINELLO
Notary Public, State of New York
Registration #01SP6186103
Qualified in Nassau County
Commission Expires November 3, 2016

POWER OF ATTORNEY

FINANCIAL STATEMENT

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THE HANOVER INSURANCE COMPANY
MASSACHUSETTS BAY INSURANCE COMPANY
CITIZENS INSURANCE COMPANY OF AMERICA

POWERS OF ATTORNEY
CERTIFIED COPY

KNOW ALL MEN BY THESE PRESENTS: That THE HANOVER INSURANCE COMPANY and MASSACHUSETTS BAY INSURANCE COMPANY, both being corporations organized and existing under the laws of the State of New Hampshire, and CITIZENS INSURANCE COMPANY OF AMERICA, a corporation organized and existing under the laws of the State of Michigan, do hereby constitute and appoint

Tara Laverdiere, Philip G. Samuels, Denese Thompson, Tara Laverdiere, Kim Spinello, Louis J. Spina, Marnie Ginsberg and/or Frank Abbatiello

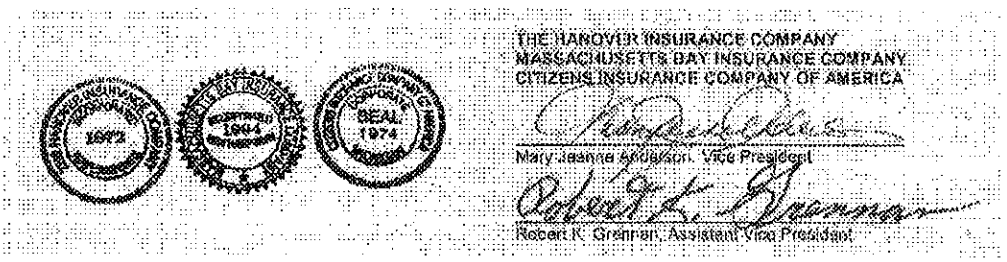
of **Garden City, NY** and each is a true and lawful Attorney(s)-in-fact to sign, execute, seal, acknowledge and deliver for, and on its behalf, and as its act and deed any place within the United States, or, if the following line be filled in, only within the area therein designated

any and all bonds, recognizances, undertakings, contracts of indemnity or other writings obligatory in the nature thereof, as follows:
Any such obligations in the United States, not to exceed Ten Million and No/100 ($10,000,000) in any single instance

and said companies hereby ratify and confirm all and whatsoever said Attorney(s)-in-fact may lawfully do in the premises by virtue of these presents. These appointments are made under and by authority of the following Resolution passed by the Board of Directors of said Companies which resolutions are still in effect:

"RESOLVED, That the President or any Vice President, in conjunction with any Assistant Vice President, be and they are hereby authorized and empowered to appoint Attorneys-in-fact of the Company, in its name and as its acts, to execute and acknowledge for and on its behalf as Surety any and all bonds, recognizances, contracts of indemnity, waivers of citation and all other writings obligatory in the nature thereof, with power to attach thereto the seal of the Company. Any such writings so executed by such Attorneys-in-fact shall be as binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company in their own proper persons." (Adopted October 7, 1981 - The Hanover Insurance Company; Adopted April 14, 1982 – Massachusetts Bay Insurance Company; Adopted September 7, 2001 - Citizens Insurance Company of America)

IN WITNESS WHEREOF, THE HANOVER INSURANCE COMPANY, MASSACHUSETTS BAY INSURANCE COMPANY and CITIZENS INSURANCE COMPANY OF AMERICA have caused these presents to be sealed with their respective corporate seals, duly attested by a Vice President and an Assistant Vice President, this **25th** day of **August 2010**.



THE COMMONWEALTH OF MASSACHUSETTS)
COUNTY OF WORCESTER) ss.

On this **25th** day of **August 2010**, before me came the above named Vice President and Assistant Vice President of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America, to me personally known to be the individuals and officers described herein, and acknowledged that the seals affixed to the preceding instrument are the corporate seals of The Hanover Insurance Company Massachusetts Bay Insurance Company and Citizens Insurance Company of America, respectively, and that the said corporate seals and their signatures as officers were duly affixed and subscribed to said instrument by the authority and direction of said Corporations.

Barbara A. Garlick
Notary Public

My commission expires on November 3, 2011

I, the undersigned Assistant Vice President of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America, hereby certify that the above and foregoing is a full, true and correct copy of the Original Power of Attorney issued by said Companies, and do hereby further certify that the said Powers of Attorney are still in force and effect.

This Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America.

"RESOLVED, That any and all Powers of Attorney and Certified Copies of such Powers of Attorney and certification in respect thereto, granted and executed by the President or any Vice President in conjunction with any Assistant Vice President of the Company, shall be binding on the Company to the same extent as if all signatures therein were manually affixed, even though one or more of any such signatures thereon may be facsimile." (Adopted October 7, 1981 - The Hanover Insurance Company; Adopted April 14, 1982 Massachusetts Bay Insurance Company; Adopted September 7, 2001 - Citizens Insurance Company of America)

GIVEN under my hand and the seals of said Companies, at Worcester, Massachusetts, this 6 day of November , 20 14

THE HANOVER INSURANCE COMPANY
MASSACHUSETTS BAY INSURANCE COMPANY
CITIZENS INSURANCE COMPANY OF AMERICA

Stephen C. Brault, Assistant Vice President

The Hanover Insurance Company | 440 Lincoln Street, Worcester, MA 01653
Citizens Insurance Company of America | 645 West Grand River Avenue, Howell, MI 48843
Massachusetts Bay Insurance Company | 440 Lincoln Street, Worcester, MA 01653

The Hanover Insurance Company, Bedford, New Hampshire
Financial Statement as of December 31, 2013

ASSETS		2013
Cash In Banks (Including Short-Term Investments)		$ 50,894,228
Bonds and Stocks		$ 4,711,827,363
Other Admitted Assets		$ 1,284,421,678
Total Admitted Assets		$ 6,047,143,269

LIABILITIES, CAPITAL AND SURPLUS		
Reserve for Unearned Premiums		$ 1,350,588,326
Reserve for Loss and Loss Expense		$ 2,264,133,905
Reserve for Taxes		0
Funds held under reinsurance treaties		$ 5,856,574
Reserve for all other liabilities		$ 596,875,901
Capital Stock - $1.00 par	$ 5,000,000	
Net Surplus	$ 1,824,688,563	
Policyholders' Surplus		$ 1,829,688,563
Total Liabilities, Capital and Surplus		$ 6,047,143,269

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF WORCESTER } s.s.:

Joseph Pedorella, Asst. Treasurer of The Hanover Insurance Company, being duly sworn deposes and says that he is the above described officer of said Company, and certifies that the foregoing statement is a true statement of the condition and affairs of the said Company on December 31, 2013.

Joseph Pedorella
Asst. Treasurer

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CERTIFICATE OF SOLVENCY UNDER SECTION 1111 OF THE NEW YORK INSURANCE LAW

STATE OF NEW YORK

DEPARTMENT OF FINANCIAL SERVICES

It is hereby certified that

THE HANOVER INSURANCE COMPANY

Of Bedford, New Hampshire

a corporation organized under the laws of the State of New Hampshire and duly authorized to transact the business of insurance in this State, is qualified to become surety or guarantor on all bonds, undertakings, recognizances, guaranties and other obligations required or permitted by law; and that the said corporation is possessed of a capital and surplus including gross paid-in and contributed surplus and unassigned funds (surplus) aggregating the sum of $1,829,688,563 (Capital $5,000,000) as is shown by its sworn financial statement for the end of the year as of December 31, 2013, on file in this Department, prior to audit.

The said corporation cannot lawfully expose itself to loss on any one risk or hazard to an amount exceeding 10% of its surplus to policyholders, unless it shall be protected in excess of that amount in the manner provided in Section 4118 of the Insurance Law of this State.

In Witness Whereof, I have hereunto set my hand and affixed the official seal of this Department at the City of Albany, this 10th day of April, 2014

Benjamin M. Lawsky
Superintendent

By Jacqueline Catalfamo

Jacqueline Catalfamo
Special Deputy Superintendent

www.dfs.ny.gov

2014 General Requirements Contract
for various Civil/Site, Reconstruction, Parking Lots and Park Related Specialized Items in Nassau County, New York

REQUIREMENTS CONTRACT NO. H66302U

GENERAL NOTES

1. All the provisions of the Nassau County Department of Public Works 2009 Specifications for the Construction of Highways and Bridges with Addenda, Notes and Modifications, Traffic Signal Specifications, Standard Drawings, November, 1998 and Addenda thereto and Special Specifications as included in this bid document, shall apply along with the provisions stated below.

2. The Contractor shall maintain and protect traffic within the limits of and for the duration of the contract in accordance with the plans and specifications and as directed.

3. The Contractor will be responsible at all times for the safety of the general public, and for the protection of persons who may for any reason enter within the limits of his work.

4. The Contractor shall employ flagmen when deemed necessary by the Engineer and shall erect proper warning signs and necessary barricades to protect the general public and to warn them of changes caused by the progression of his contract. The contractor is responsible for work zone safety as per OSHA requirements.

5. The Contractor shall notify the local police as to the conditions prevailing on the construction site.

6. The Contractor must provide safe and uninterrupted two-way traffic over the roads under construction at all times.

7. No direct payment shall be made for the above items of work, but the cost shall be included in the price bid for Item 102, Traffic Maintenance.

8. LIGHTED BARRICADES, BLINKERS AND WARNING SIGNS

   a. Must be serviced a minimum of twice each week.
   b. Must be checked and maintained by the Contractor each day, including weekends and holidays.
   c. Must be secured or weighted in such a manner as to prevent them from blowing over under windy conditions.
   d. Must be in accordance with the latest Manual of Uniform Traffic Control Devices.

9. The Contractor must submit to the Engineer a schedule for each work order locations and a detailed schedule of dates that he intends to work at said locations. All work will be done during a normal eight (8) hour day, Monday through Friday. If the Contractor chooses to work beyond the normal work hours, the Contractor will be responsible for reimbursing the County for the additional cost, including benefits costs, of any County employees and/or County representatives working for the County that work these overtime hours.
   Note: If work is done under a County declared emergency condition, this provision will not apply.

10. The Contractor will not be allowed to commence more than five (5) work orders at any one time and shall not commence work on a sixth (unless the Engineer deems it an emergency) until such time as one of the five in progress is 100% complete.

11. Payment for the work performed under Work Orders shall be made on Work Orders completed and accepted by the County on a monthly basis or when the work order has been completed to the satisfaction of the county.

12. Location – An attempt will be made to group the items at a location to facilitate installation. Where there is a gap of less than one-half mile between items, it shall be considered one location under this contract.

13. No separate cost of Mobilization or Demobilization will be paid. Cost shall be included in applicable unit price bids.

14. Where there are fire hydrants situated along a section of roadway where markers are to be installed, blue double faced markers shall be installed in addition to the normal white and yellow markers in line with the hydrant.

SPECIAL PROVISIONS

1. Past History – Following information may be useful to the bidders: the County's recent past history of expenditures for the nature of the work being bid herein indicated that an average amount in excess of $3,000,000 worth of work has been accomplished under the past few contracts. It is understood and agreed, however, that allocated amount may be amended if budgetary allowances are not approved by the Nassau County Legislature for the County fiscal years in which said payments are to be made. Be advised that this figure is provided for your guidance only and is not be interpreted as an indication that any specific dollar amount of work is contemplated through the establishment of the contract being bid at this time.

2. Bid Security – The Contractor shall submit a bid bond or certified check made payable to the County of Nassau in the amount of $400,000.00 to insure that the bid is made in good faith.

3. Scope of Contract – The work covered by this contract involves furnishing labor, materials, tools, equipment and incidentals as specified for the rehabilitation and/or installation, modification and/or removal of highways, drainage systems, pavement, parking lot, and parks related work and/or emergency work at various locations to be selected in Nassau County during a twenty four month period, starting from the issuance of the first" commence work" order.

4. Work Order – The Contractor shall start the work within four weeks at a selected location upon receipt of a work order issued by the Commissioner, together with a site plan or sketch showing the proposed work to be done. The Contractor shall notify the County forty-eight (48) hours prior to the start of any work order.

5. Time of Completion:
   a. The Contractor shall complete the work at each selected location within the time limit specified on the work order unless otherwise directed by the Engineer.
   b. Failure to complete the work to the satisfaction of the Commissioner within the specified time limit shall invoke the application of Article XII, Liquidated Damages, of this agreement. PART ONE, Article 2.11. Extension of Contract Time of the General Specifications is hereby replaced, unless granted by the Commissioner in writing, by the aforementioned Special Provision.

6. Variation from Normal Bidding Procedure
   a. Bidders are cautioned that this is a twenty four (24) month contract and that it shall begin after the issuance of the first work order. The contract shall terminate upon the time limit of twenty four (24) months or until the allocated monies are used, or whichever comes first, unless an extension of time is granted by the Commissioner. The quantities given are based on average weighted units with the exceptions of those items which are on a lump sum basis. All bid prices are to be based upon these average weighted units.
   b. The sum total of all the bid prices will determine the low bid; and the subsequent award of this contract.
   c. The Bidder is further advised that the County may use only one item of work or may use some quantities of some of the contract items. Quantities are provided for bid comparison purpose. Actual quantities may be less, more or none.
   d. With regards to this particular contract, the price as bid for each unit price item will pertain in the event only one unit is used or if as an example 100 or more units are used.
   e. All Force Bids are fixed cost items and therefore the Contractor must bid the price as stated for all force bid items.

7. Restrictions of Work in Roadway – Perpendicular to the curb line, no more than ten (10) feet of pavement is to be open at any one time. When ordered, no work will be permitted between 7 a.m. and 9 a.m. or 4 p.m. and 6 p.m., Monday through Friday. During these periods and at all times when work is not in progress, all openings in the roadway shall be covered with pinned steel plates or temporary pavement to safely permit traffic to cross over the excavation.

8. Pavement Restoration
   a. Stone Base Pavement –
      1) Longitudinal Openings
         a) The pavement over the trench shall be cut back a minimum of 6" on both sides of the trench to insure an even edge.
         b) If the remaining longitudinal strip is less than three (3) feet on one side, the total width of the cutback, trench and side strip must be replaced.
      2) Transverse Openings
         a) The pavement over the trench shall be cut back a minimum of 6" on both sides of the trench to insure an even edge.
         b) Asphalt plant mix, dense base or concrete, shall be used for the replacement of the stone base pavement removed.
   b. Concrete Base and Finished Concrete Pavement
      1) Longitudinal Openings
         a) The entire panel width must be removed and replaced. Ends of panel to be saw cut if not at a transverse joint.
         b) In no case shall any portion of the existing panel that is less than six feet from a transverse joint be left in place.
         c) When concrete base panels with macadam overlays are to be removed, the Black Top shall be cut back a minimum of six inches onto the adjacent panels to provide a smooth vertical edge on the Black Top.
      2) Transverse Openings
         a) Transverse openings shall be saw cut 90 degrees to the longitudinal joints.
         b) Pavement replacement to be a minimum of 2 feet on both sides of the trench, and a total minimum of 6 feet wide.
         c) In no case shall any portion of the existing panel that is less than 6 feet in length from a transverse joint be left in place.
         d) Where openings are skewed across the pavement the concrete replacement must be carried straight across each panel and not staggered. No portion of the existing panel that is less than 6 feet from a transverse joint should be left in place.

9. Standards – The standard sheets for the construction of Highways and Bridges (latest edition) are made part of this contract.

10. Maintenance of Traffic
    a. Maintenance and protection of traffic will be paid on a per day, per work order basis for those days when maintenance and protection of traffic is provided. No work shall commence until all appropriate traffic devices have been placed.
    b. In the event that the Contractor has closed down or in judgment of the Engineer, Traffic is not properly and adequately maintained, no payment will be made for those days. Penalty may be imposed by the Engineer for improper MPT as the provisions of this contract. The price bid shall include the cost of furnishing all

labor, materials, tools and equipment necessary to satisfactorily complete the required work.

11. Utilities
    a. Existing structures, utilities and facilities, either shown or not shown on the plans, above or below the ground, may not have been located or not located accurately. The Contractor shall determine the locations and elevations of pertinent structures, utilities and facilities, before new installations are started, so that there will be no interference with the progression of the work. Any conflict between existing structures, utilities and facilities and the new items of work shall be ascertained by the Contractor prior to commencing any work under the respective items and called to the attention of the Engineer. It is the responsibility of the contractor to protect and maintain utilities or utility structures while working "in proximity". No additional payment will be made for this purpose except for the test holes, Item 122.
    b. Grades and locations of new installations may be changed by the Engineer, if possible, to prevent conflict with existing installations. Therefore, the Contractor shall locate all existing installations accurately, both as to line and grade before new items of work are started.
    c. Only payment will be made for locating utilities is under Item 122, Test Holes.
    d. If the above procedure is not followed by the Contractor and new work has to be removed and replaced, or there is a delay, all the cost will be borne by the Contractor and the County will only pay for the amount of the items in place complete at the completion of work.

12. Protection of Facilities – The Contractor shall protect all new work done under this contract from possible damage for the duration of the Contract. He shall be responsible for the repair or replacement, to the satisfaction of the Engineer, of any material, structure, or property on or adjacent to the site and damaged by him or his employees through the construction and demolition operations up to the time of acceptance by the County.

13. Survey/Stake out – Survey work shall be done with prior approval of the Engineer. Survey done for contractor's payment purposes will not be paid.

14. Drainage Installations – The Contractor shall plan his work and progress so that at all times either the new or the existing drainage facilities will function to carry off liquids so that no damage or inconvenience will result.

15. Clean-Up
    a. Prior to final acceptance of the work under this Contract, the Contractor shall clean the new pipe, manholes and catch basins where construction was undertaken, of accumulated dirt, sand or other materials which have washed into them. No direct payment shall be made for the aforementioned work; but shall be included in the prices bid for the various items of the Contract.

b. The Contractor will be required to restore to original condition all areas, outside the work limits, that are distributed by him during the life of this contract.
c. No separate payment will be made for any of this clean-up and restoration work, but the cost thereof shall be included in the unit prices bid for various items.

16. Test Cylinders – The Contractor will provide a place for concrete test cylinders close enough to the work so that the cylinders share the same curing conditions. The Contractor will protect these cylinders for the three days they will be left on the job site.

17. Construction in State of New York Rights of Way
    a. Permits – A permit shall be obtained by the Contractor from the State of New York for all work within State rights of way. He shall pay for all costs of obtaining this permit including costs of State inspection. A copy of said permit shall be forwarded to the County prior to start of work.
    b. General – Acceptance of all work within State rights of way shall be subject to the inspection and approval of the Regional Director, Region 10, State of New York Department of Transportation.
    c. Payment – No separate or additional payment will be made for conforming to the various requirements of the State of New York Department of Transportation but the cost thereof will be deemed included in the appropriate Contract Items without regard to differences in materials, thicknesses and types of pavements and methods of construction, temporary construction or maintenance of traffic.

18. Construction in the City of New York Rights of Way
    a. Permits – Shall be obtained by the Contractor from the City of New York for all work within City rights-of-way. He shall pay for all costs of obtaining such permits including costs of City inspection.
    b. General – Acceptance of all work within City rights of way shall be subject to inspection and approval of the Transportation Administration. Administrator, Office of Construction Coordination, 40 Worth Street, New York, New York 10013.
    c. Payment – No separate or additional payment will be made for conforming to the various requirements of the City of New York Transportation Administration but the cost thereof will be deemed included in the appropriate Contract Items without regard to differences in materials, thickness and types of pavements and methods of construction, temporary construction or maintenance of traffic.

19. The Contractor shall provide two (2) smart phones, so that the County's Engineer may maintain contact with the inspection forces. The phones shall be in the possession of the person to whom it is assigned on a twenty-four hour, seven day per week, basis for official use only. No work may begin until the smart phones are provided and the service activated. The smart phones services shall be maintained for the duration of the Contract. The phones shall be replaced at no additional cost to the County if damaged or otherwise cease functioning.

20. The Contractor shall supply to the inspection forces two (2) new Measuring Wheels, Lietz Model 415D or approved equal, and at the completion of the contract said wheels shall revert to the County.

21. The Contractor when submitting shop drawings for approval must specify the work order number and location that said shop drawings will be used on. Shop drawings shall be submitted as and when directed by Engineer at no additional cost whatsoever.

22. When ordered all concrete supplied will include an admixture such as will assure compressive strength cores of 2500 PSI in 48 hours. The admixture will be added to the concrete at a rate recommended by the supplier. The cost of the admixture will be included under applicable items.

SPECIAL CONDITIONS

1. EROSION AND SEDIMENT CONTROL
   a. The Contractor shall assume responsibility for the temporary control of soil and water pollution that could potentially result from construction activities and shall be in accordance with federal, State and local regulations, as well as the Contract specifications and directions of the County representative. In essence all necessary precautions shall be taken to prevent contamination of waters and surrounding areas by silt, sediment, fuels , solvents, lubricants, epoxy coatings, wet concrete, concrete leachate, washings from concrete equipment or any other pollutant associated with drilling and construction procedures. Specific reference is made to the New York State Department of Environmental Conservations' "Guidelines for Urban Erosion and Sediment Control," along with any subsequent updates. Associated costs for erosion and sediment control shall be included in the unit prices for items of this specification. No separate payment shall be made for erosion and sediment control.

2. POLITICAL SUBDIVISIONS
   a. The Bidder agrees in submitting a bid that political subdivisions of New York State, either whole or partly within Nassau County, where applicable by law, will be permitted to participate in this contract per the same terms and conditions stated within. These subdivisions will be wholly responsible for any and all debts incurred by them as participants in this contract.
   b. Political subdivisions are defined as towns, incorporated villages, school districts, fire districts and library districts.

ITEM 1X - CLEARING AND GRUBBING

Please refer to Item No. 1 of the Standard Nassau County Specification (2009) (except for C and D).

C. Method of Measurement.

1. The quantity to be paid for under this item will be the number of square yards of clearing and grubbing provided in accordance with the Plans and Specifications as determined by the Engineer.

D. Basis of Payment.

1. The price bid per square yard for this item shall include the cost of furnishing all labor, material and equipment necessary to complete the work satisfactorily.

ITEM 4CX – REMOVAL OF CEMENT CONCRETE

A. Description.

1. Under this Item the Contractor shall break up and prepare for removal all existing cement concrete, such as pavement, foundation for pavement, gutters and integral curbs and combinations thereof, and other concrete installations of a similar nature, except sidewalks, to the extent shown on the Plans and/or directed by the Engineer.
2. All equipment and methods used by the Contractor under this item shall be approved prior to the start of work. The use of a demolition ball operated from a crane or other equipment will not be permitted under any circumstances for breaking concrete.

B. Construction Details.

1. All concrete sawcuts shall be "full depth."
2. The work under this Item shall also include the removal of boulders over one-half (1/2) cubic yard encountered in pipe trenches and the demolition and removal of concrete pavement encountered in the roadway.

C. Method of Measurement.

1. The quantity to be paid for under this item will be the actual number of cubic yards of concrete measured in place, removed in accordance with the Plans and/or as ordered by the Engineer.

D. Basis of Payment.

1. The price bid for this item shall include the cost of furnishing all labor, materials and equipment necessary to demolish and break up cement concrete pavements, gutters, and curbs, including the removal and disposal of all demolished concrete demolished.
2. In the event that satisfactory fill material is unavailable on site, the material used to backfill the void shall conform to the appropriate fill item. The cost of furnishing and placing the fill material shall be paid for under Item 5C - Selected Fill

ITEM 4PX - REMOVAL OF EXISTING PIPE

A. Description.

1. Under this Item, the Contractor shall expose, remove and dispose of existing pipe or parts thereof as shown on the Plans and/or directed by the Engineer.

B. Materials and Methods.

1. After the existing pipe has been removed, the resultant excavation shall be backfilled and compacted in accordance with the requirements of Items 3A and 3B - Trench, Culvert and Bridge Excavation as specified herein.

C. Method of Measurement.

1. The quantity to be paid for under this Item shall be the actual number of linear feet of pipe removed and disposed of, regardless of size or type, in accordance with the Specifications, Work Orders and/or as directed by the Engineer.

D. Basis of Payment.

1. The unit price bid per linear foot for this Item shall include the cost of furnishing all labor, materials, tools, equipment and incidentals including excavation, temporary sheeting and bracing and backfill necessary to satisfactorily complete the work.

ITEM 12HP - CLEANING EXISTING CULVERTS AND ASSOCIATED STORM DRAINAGE PIPE

A. Description.

Under this Item the Contractor shall clean and maintain existing culverts and associated storm drains piping as indicated on the Plans and/or as directed by the Engineer.

B. Method.

1. All existing culverts and associated storm drains piping shall be cleaned and kept free from obstructions and sediment for the duration of this Project. Upon completion and final acceptance of the Project, these facilities shall be left clean and free-flowing to the satisfaction of the Engineer.
2. The Contractor shall provide necessary protection against damage to the existing culverts and pipes and any damage caused by his operations, in the judgment of the Engineer, shall be repaired at the Contractor's own expense.

C. Method of Measurement.

1. The quantity to be paid for will be the number of linear feet of culverts and associated storm drainage pipe actually cleaned and maintained, measured from the outside of end structures and through intermediate structures.
2. All new pipe installed under this contract are excluded from payment under this item. Cleaning and maintenance of these facilities is provided for elsewhere in the Proposal.

D. Basis of Payment.

1. The price bid per linear foot shall cover the cost of all labor, material and equipment necessary to clean, protect and maintain the drainage system to the satisfaction of the Engineer. This cost includes but is not limited to the proper legal disposal of the excavated material.

ITEM 12S40-8 – SCHEDULE 40 POLYVINYL CHLORIDE (PVC) SANITARY SEWER PIPE - 8" Dia.

Standard Specifications for Item 12S40-6 shall apply except the pipe size will be 8" instead of 6".

DRAINAGE PIPES – ITEMS 12XX

12A-4-12	-	12" REINFORCED CONCRETE PIPE, CLASS IV
12A-4-15	-	15" REINFORCED CONCRETE PIPE, CLASS IV
12A-4-18	-	18" REINFORCED CONCRETE PIPE, CLASS IV
12A-4-24	-	24" REINFORCED CONCRETE PIPE, CLASS IV
12A-4-30	-	30" REINFORCED CONCRETE PIPE, CLASS IV
12A-4-36	-	36" REINFORCED CONCRETE PIPE, CLASS IV
12A-4-42	-	42" REINFORCED CONCRETE PIPE, CLASS IV
12A-4-48	-	48" REINFORCED CONCRETE PIPE, CLASS IV
12B-12	-	REINFORCED CONCRETE PIPE END SECTION- 12" DIAMETER
12B-15	-	REINFORCED CONCRETE PIPE END SECTION-15" DIAMETER
12B-18	-	REINFORCED CONCRETE PIPE END SECTION- 18" DIAMETER
12B-24	-	REINFORCED CONCRETE PIPE END SECTION- 24" DIAMETER
12B-30	-	REINFORCED CONCRETE PIPE END SECTION- 30" DIAMETER
12B-36	-	36" REINFORCED CONCRETE PIPE END SECTIONS
12B-42	-	42" REINFORCED CONCRETE PIPE END SECTIONS
12B-48	-	48" REINFORCED CONCRETE PIPE END SECTIONS
12C-14X23	-	14"X23" REINFORCED ELLIPTICAL CONCRETE PIPE
12C-19X30	-	19"X30" REINFORCED ELLIPTICAL CONCRETE PIPE
12C-22X34	-	22"X34" REINFORCED ELLIPTICAL CONCRETE PIPE
12C-24X38	-	24"X38" REINFORCED ELLIPTICAL CONCRETE PIPE
12C-29X45	-	29"X45" REINFORCED ELLIPTICAL CONCRETE PIPE
12D-12	-	PERFORATED REINFORCED CONCRETE PIPE-12" DIAMETER
12D-15	-	PERFORATED REINFORCED CONCRETE PIPE-15" DIAMETER
12D-18	-	PERFORATED REINFORCED CONCRETE PIPE-18" DIAMETER
12D-24	-	PERFORATED REINFORCED CONCRETE PIPE-24" DIAMETER
12D-30	-	PERFORATED REINFORCED CONCRETE PIPE-30" DIAMETER
12DIP-12	-	DUCTILE IRON CULVERT PIPE-12" DIAMETER
12DIP-16	-	DUCTILE IRON CULVERT PIPE-16" DIAMETER
12DIP-18	-	DUCTILE IRON CULVERT PIPE-18" DIAMETER
12DIP-24	-	DUCTILE IRON CULVERT PIPE-24" DIAMETER
12DIP-30	-	DUCTILE IRON CULVERT PIPE-30" DIAMETER
12P-12	-	SMOOTH INTERIOR CORRUGATED POLYETHYLENE DRAINAGE PIPE-12"
12P-15	-	SMOOTH INTERIOR CORRUGATED POLYETHYLENE DRAINAGE PIPE-15"
12P-18	-	SMOOTH INTERIOR CORRUGATED POLYETHYLENE DRAINAGE PIPE-18"
12P-24	-	SMOOTH INTERIOR CORRUGATED POLYETHYLENE DRAINAGE PIPE-24"
12P-36	-	SMOOTH INTERIOR CORRUGATED POLYETHYLENE DRAINAGE PIPE-36"

A. **Description.**

1. All requirements of the above listed items from Nassau County 2009 Standard Specifications shall apply except for change in pipe sizes.

ITEM 13BX-4 – TREATMENT STRUCTURE, 4' DIAMETER

ITEM 13BX-6 – TREATMENT STRUCTURE, 6' DIAMETER

ITEM 13BX-8 – TREATMENT STRUCTURE, 8' DIAMETER

ITEM 13BX-10 – TREATMENT STRUCTURE, 10' DIAMETER

ITEM 13BX-12 – TREATMENT STRUCTURE, 12' DIAMETER

The applicable specifications for Item 13B – Manholes applies with the following modifications and or additions.

A. Description.

1. Under this item the Contractor shall furnish and install storm water treatment structures of the sizes and types at the locations indicated on the construction drawings. The storm water treatment structure and its appurtenances shall be a self-contained system incorporating an induced vortex to separate solids from liquids in the storm water flow. The system shall be self-activating with fluid flow driven by gravity force without the use of mechanical parts or external power requirements.
2. The storm water treatment device must be approved by the New York State Department of Environmental Conservation (NYSDEC). The Contractor shall provide the Engineer with the manufacturer's written certification indicating the structures supplied to the project meet all conditions of and are NYSDEC approved.

B. Materials.

1. The storm water treatment system shall be the "Downstream Defender" as designed by Hydo International, 94 Hutchins Drive, Portland, Maine 04102, 207-756-6200, Fax 207-756-6212, or approved equal.
   a. The storm water treatment system shall be supplied by a manufacturer regularly engaged in such work who has furnished similar installation in successful and continuous operation for a minimum period five years.
   b. Performance data and references shall be made available to the Engineer upon request for use in determining conformance to the storm water treatment system design criteria and performance requirements required in this specification.
2. The treatment structure shall consist of a reinforced precast concrete hollow, cylindrical vessel with internal components.
   a. The internal components to be supplied shall include the center shaft and cone, dip plate, benching skirt, floatables lid and component support frame. These components shall be composed of polypropylene material. The component support frame members and all metal parts shall be Type 304 stainless steel. All components shall be designed to withstand all normal loadings associated with fabrication, shipping, site installation and normal operation of the equipment. The component support frame shall withstand a live load of 500 lbs.

b. The hollow cylindrical vessel shall be a precast concrete structure manufactured with 4,000 psi (at 28 days cure time) concrete. The structure shall be steel reinforced for H-20 loading. Shiplap joints to be sealed with one inch butyl rubber sealant. Slab tops shall be suitably reinforced and provided with manhole openings and covers as required. The cast iron manhole frames and covers shall be sized as per the manufacturer's drawings. The masonry fixing bolts shall be Type 304 stainless steel.

C. Submittals. As a minimum and to the satisfaction of the Engineer, the Contractor shall provide the following:

1. General arrangement and dimensional drawings of the storm water treatment system.
2. Plan and profile drawings of the storm water treatment system as part of the storm water drainage system. The profile drawing shall indicate the top of water level both upstream and downstream of the storm water treatment system at the design flow conditions.
3. Handling, storage and installations instructions.
4. Operation and maintenance instructions.

D. Equipment Performance, Design Criteria and Installation.

1. The storm water treatment unit shall adhere to the hydraulic parameters listed below and provide the efficiencies and storage capacities as follows.
2. Performance objectives — the treatment chamber must be capable for treating a maximum flow at least equal to the peak treatment flow listed below:

a. Item 13BX-4 — 4' Diameter Treatment Structure

1) Peak treatment flow	3 cubic feet/sec.
2) Vessel diameter	4 feet
3) Maximum inlet pipe diameter	12 inches
4) Maximum overflow pipe diameter	12 inches
5) Predicted head loss at peak treatment capacity (head loss as defined as the difference between static water level at the inlet to the "Downstream Defender" to the free water surface in the overflow pipe assuming a free discharge)	8 inches
6) Sediment storage capacity	0.70 cubic yards
7) Oil storage capacity	70 gallons

b. Item 13BX-6 — 6' Diameter Treatment Structure

1) Peak treatment flow	8 cubic feet/sec.
2) Vessel diameter	6 feet
3) Maximum inlet pipe diameter	18 inches
4) Maximum overflow pipe diameter	18 inches

5) Predicted head loss at peak treatment capacity 8 inches
(head loss as defined as the difference between static water level at the inlet to the "Downstream Defender" to the free water surface in the overflow pipe assuming a free discharge)
6) Sediment storage capacity 2.10 cubic yards
7) Oil storage capacity 230 gallons

c. Item 13BX-8 — 8' Diameter Treatment Structure

1) Peak treatment flow 15 cubic feet/sec.
2) Vessel diameter 8 feet
3) Maximum inlet pipe diameter 24 inches
4) Maximum overflow pipe diameter 24 inches
5) Predicted head loss at peak treatment capacity 8 inches
(head loss as defined as the difference between static water level at the inlet to the "Downstream Defender" to the free water surface in the overflow pipe assuming a free discharge)
6) Sediment storage capacity 4.65 cubic yards
7) Oil storage capacity 525 gallons

d. Item 13BX-10 — 10' Diameter Treatment Structure

1) Peak treatment flow 25 cubic feet/sec.
2) Vessel diameter 10 feet
3) Maximum inlet pipe diameter 30 inches
4) Maximum overflow pipe diameter 30 inches
5) Predicted head loss at peak treatment capacity 10 inches
(head loss as defined as the difference between static water level at the inlet to the "Downstream Defender" to the free water surface in the overflow pipe assuming a free discharge)
6) Sediment storage capacity 8.70 cubic yards
7) Oil storage capacity 1,050 gallons

e. Item 13BX-12 — 12' Diameter Treatment Structure

1) Peak treatment flow 38 cubic feet/sec.
2) Vessel diameter 12 feet
3) Maximum inlet pipe diameter 36 inches
4) Maximum overflow pipe diameter 36 inches
5) Predicted head loss at peak treatment capacity 17 inches
(head loss as defined as the difference between static water level at the inlet to the "Downstream Defender" to the free water surface in the overflow pipe assuming a free discharge)
6) Sediment storage capacity 14.70 cubic yards
7) Oil storage capacity 1,770 gallons

3. The storm water treatment system shall be a hollow cylindrical vessel with internal components and a tangential inlet to induce a vortex flow pattern that will accumulate and store settle-able solids in a sediment storage facility that is isolated from the treatment flow path. The sediment storage facility shall be beneath the vortex chamber to prevent re-entrainment of captured sediment and reduction in treatment capacity.
4. Each storm water treatment unit shall utilize a submerged inlet to prevent the re-entrainment of trapped floating contaminants without raising the water surface inside the tank.
5. The storm water treatment system shall have a floatables trap that is separate from the treated effluent discharge area to prevent re-entrainment of captured floatables during surcharge conditions.
6. The useable sediment and oil storage capacities shall not be less than the volumes listed above. The useable sediment storage capacity shall not cause a reduction in the volume of the treatment chamber capacity. The useable oil storage capacity shall not encroach upon the useable sediment storage capacity.
7. Access cover shall be provided for the sediment and floatable contaminant storage areas to facilitate maintenance.
8. Installation.
   a. Each treatment structure shall be factory assembled ready for connection to the proposed inlet and outlet drainage pipes.
   b. The treatment structure shall be installed in its final position in accordance with the requirements of Item 13B and the manufacturer's recommendations.

E. Method of Measurement.

1. The quantity to be paid for under this item will be the number of treatment structures under the respective item numbers designated for the respective structure diameter sizes complete in accordance with the contract documents and orders of the Engineer.

F. Basis of Payment.

1. The unit price bid per each shall include all labor, equipment, materials, and incidentals necessary to satisfactorily complete the work.

ITEM 16XMH - ADJUSTING MANHOLES - EXTENSIONS

A. Description.

1. Under this Item, the Contractor shall furnish and install prefabricated adjustment rings for manholes. The extensions shall elevate and support the manhole covers at the proper grade without the necessity of removing the original manhole casting when the street is resurfaced. On adjustable Nassau County sewer manholes the extensions shall elevate and support the manhole inner frame to the proper grade when the street is resurfaced.

B. Materials.

1. The adjustment rings shall consist of one of the following types unless otherwise approved by the Engineer. Prefabricated adjustment rings for manholes will be accepted on the basis of inspection and approval by the Engineer. At the Contractor's option, he may use one of the following type of adjustment rings:

   a. Type III - Single height filler ring unit for Nassau County Adjustable Sewer Manhole Frames & Covers, Type III Units: This type ring shall have a minimum width of 3/4" and height as specified for their surfacing, made of steel conforming to AISI CI020 HRS. All joints shall be welded to comply with the standards set fourth by the AWS. The ring shall be painted with rust inhibitor paint. The depth of the filler ring shall not exceed three (3") inches.

C. Construction Details.

1. Prior to ordering the adjustment rings the Contractor shall determine the exact diameter of each manhole casting and thickness of each manhole cover so a proper manhole ring is ordered. Prior to the placement of the surface course the Contractor shall install adjustable rings for manholes. The adjustment ring shall be placed so the manhole cover will not protrude above the finished surface of the pavement. When adjustment rings having incremental height adjustment are installed and the increment cannot produce a height which will result in the cover being flush with the pavement surface they shall be installed so the cover is no more than one increment below the finished grade of the pavement.
2. To assure a firm and secure fit with the adjustment ring, the seat of the existing manhole casting shall be free of all foreign material at the time of the installation. The entire assembly shall be set on the seat of the existing manhole casting and the locking bolts shall be tightened evenly, expanding the unit for a tight fit against the existing manhole casting. The manhole cover shall then be set upon the seat of the adjustment ring. All rings shall be protected from displacement caused by traffic maintained on the roadway or equipment used in the paving operation.
3. The Contractor shall have the option of removing and resetting the existing manhole casting to the required grade where shown on the Plans or approved by the Engineer. If the Contractor chooses the above method, all the provisions of the appropriate Item 16 Series shall apply.

a. Type III - Single height Filler Ring. The standard Nassau County adjustable sewer manhole frame filler ring (one piece), shall have an outside Diameter of 26 1/16". The Contractor shall verify and determine the exact inside diameter of the outer frame so the proper size filler ring can be ordered. Prior to the placement of the surface course, the Contractor shall install the filler ring by removing the inner frame of the manhole and placing the filler ring on the seat of the outer frame.

b. To assure a firm and secure fit with the Filler Ring, the seat of the outer manhole frame shall be free of all foreign material at the time of the installation. The entire assembly of the manhole inner frame and cover shall be set into the manhole outer frame. All frames and covers shall be protected from displacement caused by traffic maintained on the roadway or equipment used in the paving operation. The new roadway surface shall be reasonably flush with the top of the existing manhole.

D. Method of Measurement.

1. This work shall be measured by the number of prefabricated adjustment rings furnished and installed.

E. Basis of Payment.

1. The unit price bid for each adjustment ring and/or filler ring shall include the cost of all material, labor, and equipment necessary to satisfactorily install the Adjustment Rings and/or Filler Rings. If the Contractor elects to reset the existing casting, the costs of this work and all work involved in the removal and replacement of existing disturbed pavement shall be included in the price bid for the adjustment rings.

ITEM 26S - CONCRETE CURB (SPECIAL)

A. Description.

1. Under these Items the Contractor shall cast-in-place concrete curb of various types to match existing and/or conform to those types listed above as shown on the Plans, appropriate Standard Detail Sheets, or as ordered by the Engineer.

B. Materials.

1. The concrete placed under this item for conventionally formed curb shall be Class A, and for machine-formed curb, Class J, and shall conform in all respects to the requirements of PART THREE, SECTION A. The details of concrete materials permitted in this Item are shown in Table 1, "Concrete Mixtures" in Article 2 of Section A. Bar reinforcement shall conform to the requirements of M17.
2. Class F High Early Strength concrete or Class C concrete may be substituted for Class A concrete, if such substitution is approved by the Engineer. Class F concrete shall meet the requirements of Item 17F, and Class C concrete shall meet the requirements of Item I7C. No substitution may be made for Class J concrete.

C. Construction Details.

1. The concrete curb shall be cast in place in sections approximately 20' long and provision made at each joint for expansion of 1/4". Where joint supports are used between curb and reinforced concrete pavement or concrete foundation course, construction joints shall be located at approximately 20' intervals and/or opposite each joint in the pavement. Expansion joints 3/4" in thickness shall be located opposite each pavement expansion joint. Expansion joints 1/2" in thickness shall be installed in the curb at the beginning and end of all curb returns, all sharp curves, at each side of drainage structures or castings, at each side of driveway curb cuts and between curb and sidewalk or other abutting structures.
2. Expansion joint filler shall be premolded bituminous material conforming to M32. It shall be cut to fit the cross-section of the curb and shall be accurately installed and firmly secured in position.
3. All forms shall be set true to line and grade and held rigidly in position. They shall be either of metal or of acceptable planed and matched lumber, and shall be of such construction as to allow for inspection for grade and alignment and that will produce a smooth surface on the finished curb.
4. The concrete shall be compacted by means of an approved immersion type, mechanical vibrator of a size and weight sufficient to vibrate the entire concrete mass thoroughly without damaging or misaligning the forms. The vibrator shall be introduced into the concrete at one foot intervals for a period not to exceed two seconds for each immersion. When directed the concrete shall be compacted by working or spading by hand along the faces of the rear and front forms or pavement edge for the full depth. All compacting shall be performed while the concrete is in a plastic state and shall be to such extent as will secure a dense mass with even and uniform surfaces free from aggregate pockets or honeycomb.

5. The back forms shall be left in place at least 24 hours or until the concrete has set sufficiently so that, in the judgment of the Engineer, they can be removed without injury to the curb. After the concrete has attained its initial set, the face forms shall be removed and the exposed faces of the curb shall be immediately tooled, rubbed down and finished to a smooth, true and uniform surface as directed but no plastering will be permitted. For this work, only skilled finishers shall be employed. All joints shall be retooled for the full depth subsequent to the completion of the facing work.
6. At the Contractor's option, either M34 quilted covers, M34A polyethylene coated burlap blankets, M34B polyethylene curing covers or M34C waterproof paper blankets shall be used in curing concrete curb. Other methods of curing may be used only if so indicated on the Plans, in the Itemized Proposal or permitted in writing by the Engineer.
7. The Contractor shall protect the curb, keep it in true alignment and first class condition until the completion of the contract. Any curb which is damaged at any time previous to the final acceptance of the work or which is unsatisfactory shall be removed and replaced with acceptable curb at the Contractor's own expense.

D. Method of Measurement.

1. The quantity to be paid for under this item will be the number of linear feet of curb placed in accordance with the Plans, Specifications and orders of the Engineer.

E. Basis of Payment.

1. The price bid per linear foot shall include the cost of furnishing all labor, materials and equipment necessary to complete the work satisfactorily, including bar reinforcement and all grading including removal of existing curb unless otherwise shown on the Plans or in the Proposal.
2. Payment will be made at the unit price bid regardless of any approved substitution for the classes of concrete.

ITEM 27MS - CONCRETE MOWING STRIP - 16" TO 36" WIDE

The Standard Specifications for Item 27 shall apply with the following modifications:

A. Description.

1. Under this Item the Contractor shall construct a one course cement concrete mower strip with properly prepared sub-grade where and to the lines, grades, and details indicated on the plans in accordance with the specifications and/or orders of the Engineer.
2. The Contractor shall restore six (6") inches of grass area on either side of the mower strip in accordance with Item 368 - Topsoil and Grass Seeding, with payment under this Item.

B. Method of Measurement.

1. The quantity to be paid for under this Item shall be the number of square feet of cement concrete mowing strip measured in place and completed in accordance with the Plans and Specifications.

C. Basis of Payment.

1. The unit price bid per square foot for this Item shall include the cost of all labor, materials, tools and incidentals necessary to satisfactorily complete the required work, including but not limited to mowing strip installation and grass area restoration.

ITEM 33X – EPOXY COATED BAR REINFORCEMENT FOR STRUCTURES

A. Description.

1. The work under this item shall conform to the applicable requirements of Item 33 - Bar Reinforcement of the Nassau County Standard Specifications, except as modified by the plans and/or by the specifications, as stated herein.

B. Materials.

1. Reinforcement.

   a) This shall meet the requirements of ASTM A615 Grade 60.

2. Epoxy Coating Material.

   a) The epoxy coating material shall be an organic, powdered epoxy resin that is applied by the electrostatic method. The epoxy coating materials shall be approved by the County.

3. Patching Material.

   a) Patching or repair materials shall be supplied by the epoxy coating manufacturer. The patching material shall be compatible with the epoxy coating, inert in concrete, and shall be suitable for use in making field repairs.

4. Coating Application.

5. Surface Preparation.

   a) The surface of bars to be coated shall be blast cleaned in accordance with the Steel Structures Painting Council – Surface Preparation Specifications No. 10 (SSPC-SP10), Near White Blast Cleaning. After blasting, the cleaned surface of the bar shall be defined by SSPC-Vis1, Pictorial Standards ASa 2-1/2, BSa 2-1/2, or CSa 2-1/2, as applicable.

6. Coating Application.

   a) The powdered epoxy resin coating shall be electro-statically applied in accordance with the recommendations of the coating manufacturer. The epoxy coating may be applied before or after fabrication of the reinforcing bars.

7. Coating Thickness.

   a) The epoxy coating shall be applied as a smooth, uniform coat. After curing, the coating thickness shall be 7 plus/minus 2 mils. Coating thickness shall be controlled by taking measurements on a representative number of bars from each production lot. Coating thickness measurements shall be conducted by the method outlined in ASTM G12.

8. Continuity of Coating.

a) The coating shall be checked visually after cure for continuity. It shall be free from holes, voids, contamination, cracks and damaged areas.

b) The coating shall not have more than two holes (pinholes not visible to the naked eye) in any linear foot of the coated bar. A hole detector shall be used, in accordance with manufacturer's instructions, to check the coating for holes.

9. Coating Cure.

a) The coating applicator shall check each production lot to determine that the entire production lot of coated bars is in a fully-cured condition.

10. Flexibility of Coating.

a) The flexibility of the coating shall be evaluated on a representative number of bars selected from each production lot. The coated bar shall be bent 120 degrees (after rebound) around a 6-inch diameter mandrel. The bend shall be done a uniform rate and may take up to one minute to complete. The test specimens shall be at the thermal equilibrium between 20 and 30 degrees C (68-85 degrees F) at the time of testing.

b) No cracking of the coating shall be visible to the naked eye on the outside radius of the bent bar.

11. Plant Inspection

a) The County reserves the right to have its authorized representative to observe the preparation, coating and testing of the reinforcement bars.

b) The representative shall have free access to the plant and any work done when access has been denied shall be automatically rejected.

C. Construction Details.

1. Shop Repair of Coated Bars

a) Epoxy coated reinforcement bars which do not meet the requirements for Coating Thickness, Continuity of Coating, Coating Cure of Flexibility of Coating shall not be repaired.

b) Reinforcement bars with these defects shall be replaced or alternately, stripped of epoxy coating, re-cleaned and recoated in accordance with the requirements of this specification.

c) Coating breaks due to fabrication and handling shall be repaired with patching material if the defective area is greater than the cross-sectional area of the reinforcement bar. Defects which are smaller than the cross-sectional area need not be repaired.

d) The repair of coating breaks shall be limited to bars on which the total of the defective coating bar does not exceed 5 percent of the surface area of the reinforcement bar. Bars with greater than 5 percent damage shall be replaced or alternately, stripped of epoxy coating, re-cleaned and recoated in accordance with this specification.

2. Handling

a) All systems for coated bars shall have padded contact areas for the bars, wherever possible. All building bands shall be padded and all bundles shall be lifted with a strong back, multiple supports or a platform bridge so as to prevent bar to bar abrasion from sags in the bar bundle. The bars or bundles shall not be dropped or dragged.

ITEM 35T - TIMBER GUIDE RAIL

A. Description.

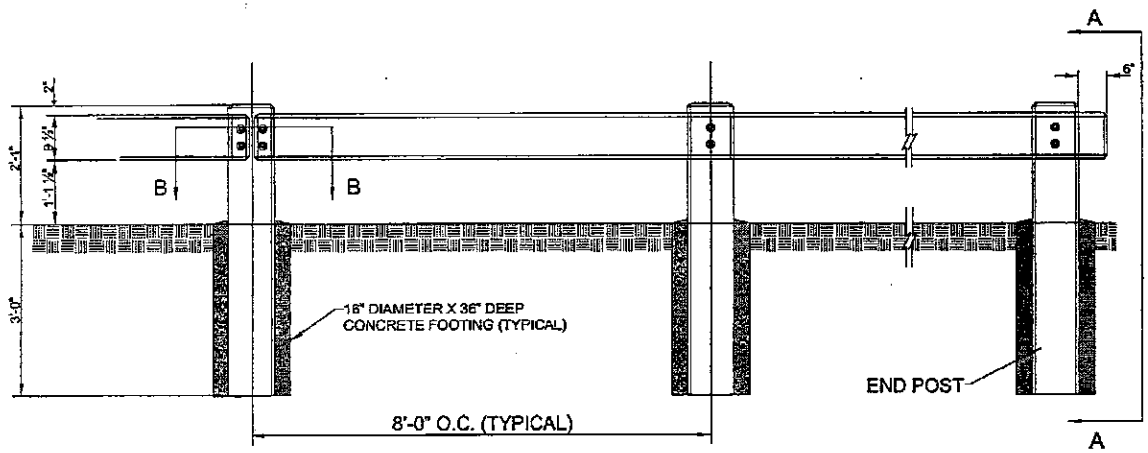
1. Under this item the Contractor shall furnish and install Wood Guide Rail at the location(s) indicated on the Plans and in accordance with the Specifications and appropriate Standard Detail Sheet and as directed by the Engineer.

B. Materials and Construction Details.

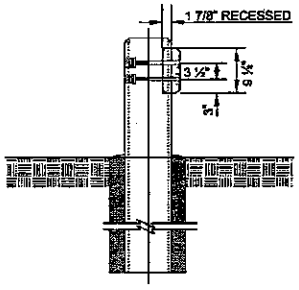
1. Lumber shall be of the size and type shown on the plans. Rails and posts shall be dried after treatment and shall not have over 15% moisture content or not over 19% air-dried. Lumber shall be Southern Yellow Pine No. 1 Dense SR (1500 F) and grade stamped.
2. All lumber shall be straight, smooth and free of splinters. Where exposed, all lumber shall have an eased edge and straight edges.
3. The lumber shall be subject to inspection and approval by the Engineer after arrival on the site.
4. All lumber used shall be treated with ACQ - Ammoniacal Copper Quaternary produced in accordance with ACQ Preserve Standard ACQ 01-02 and the appropriate AWPA Standard (Category UC1, UC2, UC3A, UC3B, UC4A, UC4B, U1 AND T1). The ACQ retention rate shall be a minimum of 0.60 lbs/cf.
5. Concrete for footings shall conform to Class A concrete 1-2-4 mix as specified in Item 17A, but payment shall be made under this Item. Footings shall be cast rough in the ground and pitched above grade to shed water. The cost of excavation and backfilling for footings shall be paid for under this Item.
6. The Contractor shall install the Wood Guide Rail in accordance with the Plans, Specifications and direction of the Engineer.

C. Measurement and Payment.

1. The quantity to be paid for under this Item shall be the actual linear feet of Wood Guide Rail furnished and installed as indicated on the Plans, as required by the Specifications or where directed by the Engineer.
2. The unit prices bid for Wood Guide Rail under this item shall include the cost of all labor, tools, materials, equipment and other incidentals required to satisfactorily complete the required work as indicated on the Plans, as required by the Specifications or where directed by the Engineer.



FRONT ELEVATION



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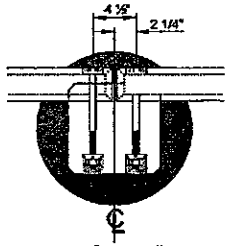
A - A



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TIMBER GUIDE RAIL

POSTS:	SHALL BE 10" x 10" No. 1 COMMON DENSE DOUGLAS FIR OR SOUTHERN YELLOW PINE SET IN 16" DIAMETER x 36" DEEP 3,000 PSI CONCRETE FOOTINGS
RAILS:	SHALL BE 4" x 10" No. 1 COMMON DENSE DOUGLAS FIR OR SOUTHERN YELLOW PINE
BEVELING:	BEVEL ALL EXPOSED SURFACES SHALL BE BEVELED WITH 1" CHAMFERS
COUNTERSINKING:	ALL RAILS AND POSTS SHALL BE COUNTERSUNK WITH 2" DIA. HOLES TO RECEIVE THE ATTACHING BOLT ASSEMBLIES TO PROVIDE FOR A FLUSH INSTALLATION
TREATMENT:	ALL POSTS AND RAILS SHALL BE TREATED WITH ACQ - AMMONIACAL COPPER QUATERNARY PRODUCED IN ACCORDANCE WITH ACQ PRESERVE STANDARD ACQ 01-02 AND THE APPROPRIATE AWPA STANDARD (CATEGORY UC1, UCC2, UC3a, UC3b, UC4a, UC4b, U1 and T1). THE ACQ RETENTION RATE SHALL BE A MINIMUM OF 0.40 LBS/CF.
HARDWARE:	EACH RAIL SHALL BE FASTENED TO A POST USING THE FOLLOWING HOT DIPPED GALVANIZED STEEL BOLT ASSEMBLY: 1 - 5/8" DIA. x 10" LONG BOLT WITH HEX HEAD AND NUT, 2 - 2" x 5/32" FLAT WASHERS & 1 - 13/64" LOCK WASHER
BOLTING:	TWO BOLT ASSEMBLIES ARE REQUIRED AT EACH POST, EXCEPT THAT FOUR BOLT ASSEMBLIES

SCALE: ½"= 1'-0"

DATE: 10/27/09

NASSAU COUNTY

Contract No. [illegible]

ITEM 37C- BRICK PAVERS ON CEMENT CONCRETE SETTING BED

A. Description.

1. Under this Item the Contractor shall furnish and install brick paving on cement concrete setting bed, in accordance with the Plans, Specifications and directions of the Engineer.

B. Materials.

1. All materials and methods of construction shall conform to the applicable sections of PARTS TWO AND THREE of these Specifications and as modified and further specified in the following paragraphs.
2. Brick Payers.
   a. All materials and methods of construction shall conform to the applicable sections of the Standard Specifications, and as modified and further specified herein.
   b. The new paving stones shall be a Nicolock Pavers or approved equal. The stones are to be 2 3/8" thick, with the sizes as shown on the plans and/or as ordered by the Engineer. They are to be manufactured from extruded fireclay or shale and shall be fired to produce a dense paver with an average absorption of less than 4% (in a 24-hour cold water absorption test). They shall have an average compressive strength of not less than 10,500 pounds per square inch for any five pavers tested. The pavers must be capable of withstanding at least the equivalent of 1,200 cycles of freeze-thaw conditions. The permissible tolerance for individual pavers shall conform to ASTM Designation C 902-79a.
3. Sand Leveling Bed.
   a. Sand for the leveling course shall be sound, sharp, washed, natural sand or crushed stone complying with gradation requirements of ASTM C 33 for fine aggregate.
4. Cement Concrete Setting Bed for Brick Paver.
   a. Concrete shall conform to the requirements specified for Item 27 - Cement Concrete Sidewalk, but will be paid for under the cost of this Item.
5. **Construction Details.**
   a. A concrete slab shall be laid in one course, 3 inches thick, or as shown on the Plans. The concrete shall be worked and floated so as to produce a rough broom finish with a uniform surface. Two (2") inch long expansion/drainage joints shall be placed at twenty (20') foot intervals to the full depth and width of the concrete slab and filled with 1/4" pea gravel. Twenty-four (24") inch wide geotextile shall be placed over this joint, between the pea gravel and sand layer.
   b. Twenty-four (24") inch wide geotextile shall be installed between the concrete base and sand layer from 1" below the top of the back face of curb.

c. A sand Leveling Course shall be constructed with a minimum thickness of one half (½") inch with a maximum thickness of one (1") inch. Brick pavers shall be installed hand tight, being careful not to disturb leveling base.

d. In areas where the pavers are not bordered by curb or sidewalk, an edge restraint shall be installed for confinement. The paver edge will conform to the requirements of Item 179D – Aluminum Paver Edge, with cost included under the item 37C.

e. Vibrate pavers into leveling course with a low-amplitude plate vibrator capable of a 3500-to 5000 lbf compaction force at 80 to 90 Hz. Perform at least three passes across paving with vibrator.

f. Grout: After setting brick, the voids are to be swept full of cement with color additive dry grout.

g. Samples. The Contractor will be required to submit four samples of the brick before starting work for approval by the Engineer. Samples shall be labeled with the name of the contract, title, and number, contractor, manufacturer and grade. The samples shall show the full range in color, texture and other physical qualities. Bricks used on the work shall conform to the approved samples. The brick shall be a high quality paving brick which shall be free from blisters, spalls, clinkers, and other defects.

h. Brick Patterns .The Contractor shall submit shop drawings showing proposed brick patterns for the Engineer's approval.

C. Method of Measurement.

1. The quantity of pavers to be paid for will be the total number of square feet of paved surface furnished and installed in accordance with the plans, specifications and directions of the Engineer.

D. Basis of Payment.

1. The unit price bid per square foot of brick paving shall include the cost of furnishing all labor, materials, and equipment, including excavation, backfilling, final grading, cement concrete setting bed, sand, brick pavers, pavers edge and all incidentals necessary to complete the work.

ITEM 40RP - RELOCATING TRAFFIC SIGNS

The Standard Specifications for Item 27 shall apply with the following modifications:

A. Description.

1. This work shall consist of furnishing labor, materials, equipment and appliances necessary to perform and complete all work involved in relocating, in kind, an existing sign in accordance with the plans, specifications and as directed by the Engineer.

B. Materials.

1. The contractor may reuse as many of the original components as possible and as approved by the Engineer. If it becomes necessary to supply new components, they shall be of equal quality to the original components.
2. Concrete for footings, when required, shall be in accordance with the requirements of NCDPW Specifications Section A, "Portland Cement Concrete, General Specifications" and shall be Class "A" Concrete

C. Construction Details

1. The Contractor shall inspect the sign to be relocated to determine the materials, equipment and appliances necessary to effect the relocation. The Contractor shall submit shop drawings for approval, showing all dimensions, details of construction, design criteria and relationship to adjoining work, where same requires cutting and fitting, and other work required for a complete relocation. Use an accredited erection crew experienced in erecting signs.
2. Protect materials during relocation to preclude any damage. The Contactor shall replace, at his own expense, any components damaged during relocation.
3. Electrical connections, when required, shall be under the direction of a licensed electrician and in accordance with the current electrical codes.
4. Existing concrete sign footings shall be cut to a depth of 18 inches below the existing ground and covered with suitable material, or as directed by the Engineer.
5. Any areas, site elements or services disturbed during the relocation process shall be restored to their original condition.

D. Method of Measurement

1. Payment will be made for EACH sign relocated in accordance with these specifications and the orders of the Engineer.

E. Basis of Payment.

1. The unit price bid per square foot for this Item shall include the cost of all labor, materials, tools and incidentals necessary to satisfactorily complete the required work.

ITEM 60A - ADJUST WATER SERVICE BOX ELEVATIONS

A. Description.

1. Under this Item the Contractor shall raise or lower the grade of the existing water service boxes that are necessitated by a change in grade between the existing grade and the new street grade at the location(s) indicated on the Plans, as required by the Specifications, or as directed by the Engineer.

B. Materials and Methods.

1. The "General Requirements for Modifications to Existing Water Service Facilities", which is included under Item 59, shall apply in addition to the requirements of this Item.
2. Water service boxes and other appurtenances shall conform to the latest standard practice and to the specifications and standards of the local Water District.

C. Method of Measurement.

1. The quantity to be paid for under this Item shall be the actual number of water service boxes reset to the new grade.

D. Measurement of Payment.

1. The unit price bid for under this Item shall include the cost of all labor, materials, equipment and incidentals necessary to satisfactorily complete the work.

ITEM 60B - RELOCATE CURB COCK AND WATER SERVICE BOXES

A. Description.

1. Under this Item the Contractor shall relocate existing curb cocks and water service boxes and furnish and install new pipe and fittings as required between the water main and the service shutoff that are necessitated by change in line and grade at the location(s) indicated on the Plans, as required by the Specifications, or as directed by the Engineer.

B. Materials and Methods.

1. The "General Requirements for Modifications to Existing Water Service Facilities", which is included under Item 59, shall apply in addition to the requirements of this Item.
2. Curb cocks, water service boxes and other appurtenances shall conform to the latest standard practice and to the specifications and standards of the local Water District having jurisdiction.

C. Method of Measurement.

1. The quantity to be paid for under this Item shall be the actual number of curb cock and water service boxes reset to the new grade.

D. Measurement of Payment.

1. The unit price bid for under this Item shall include the cost of all labor, materials, equipment and incidentals necessary to satisfactorily complete the work.

ITEM 63A - ADJUST SANITARY SEWER CLEANOUTS

A. Description.

1. Under this Item the Contractor shall raise or lower the grade of existing sanitary sewer cleanouts that are necessitated by a change in grade between the existing grade and the new street grade at the location(s) indicated on the Plans, as required by the Specifications, or as directed by the Engineer.
2. The Contractor shall obtain all required permits, releases and other authorization required from Nassau County.

B. Materials and Methods.

1. The work under this part of this Item shall conform to the requirements of the Nassau County Department of Public Works, Division of Sewers.
2. The Contractor shall obtain all required permits, releases and other authorization required from Nassau County.

C. Method of Measurement.

1. The quantity to be paid for under this Item shall be the actual number of sanitary sewer cleanouts reset to the new grade.

D. Measurement of Payment.

1. The unit price bid for under this Item shall include the cost of all necessary excavation and backfill and the furnishing and installation of all materials necessary to set the clean-out to the new finished grade, all in accordance with requirements of Nassau County.

ITEM 79UP - UNIT PAVERS

A. Description.

1. Work under this Item shall consist of unit pavers at locations shown on the Plans or as directed by the Engineer.

B. Materials.

1. Concrete Bedding.
   a. Concrete shall conform to the requirements specified for Item 27 - Cement Concrete Sidewalk and be five (5") inches thick.
2. Unit Pavers.
   a. Solid paving units, ASTM C 936, made from normal-weight aggregates in sizes and shapes indicated. Pavers shall be 4"x 8"x 2.5" HOLLAND PAVING STONE – COLOR RED by Nicolock or approved equal as per specifications. Color shall be full depth.
   b. The Contractor shall submit two samples of unit pavers for approval as to color, texture, finish and dimensions prior to delivery and installation. After approval, the samples shall be used as a standard for all unit pavers incorporated into the work.
3. Aggregate Setting Bed Materials.
   a. Sand for leveling course shall be sound, sharp, washed, natural sand or crushed stone complying with gradation requirements of ASTM C 33 for fine aggregate.

C. Construction Details.

1. A concrete slab shall be laid in one course, or as directed by the Engineer, or as shown on the plan. The concrete shall be worked and floated so as to produce a rough broom finish with a uniform surface. Two inch long expansion/drainage joints shall be placed at 20 foot intervals to the full depth and width of the concrete slab and filled with 0.25" pea gravel. A 24 inch wide geotextile shall be placed over this joint, between the pea gravel and sand layer.
2. A 24 inch wide geotextile shall be installed between the concrete base and sand layer from 1" below the top of the back face of curb.
3. A sand Leveling Course shall be constructed with a minimum thickness of ½ inch with a maximum thickness of 1 inch. Unit pavers shall be installed hand tight, being careful not to disturb leveling base. In areas where the pavers are not bordered by curb or sidewalk, an edge restraint shall be installed for confinement and shall be 2"x 3"x 7.5ft Rigid Model No. 29285 by Bric-EdgTM or approved equal.
4. Vibrate pavers into leveling course with a low-amplitude plate vibrator capable of a 3500-to 5000 lbf compaction force at 80 to 90 Hz. Perform at least three passes across paving with vibrator.
5. GENERAL. Unit pavers area shall be constructed in strict accordance with the lines and grades shown on the Plans or as directed by the Engineer. All work shall be

first class and performed by experience tradesmen. All unit pavers shall be free of defects in size, shape and material. The Contractor shall cut out and remove from the site any unacceptable pavers. Pavers incorporated in the work shall conform to the approved samples in all respects. Pavers requiring cutting shall be cut by approved motor driven saws to neat, straight lines and planes.

D. Method of Measurement.

1. The quantity of unit pavers to be paid for under this item will be the number of square feet of exposed surface measured in its final position.

E. Basis of Payment.

1. The unit price bid per square foot shall include the cost of preparing subgrade, cutting when required, edge restraint and furnishing all labor, materials and equipment and incidentals as necessary to complete the work.
2. The cost of the concrete bedding shall be paid under Item 27 - Cement Concrete Sidewalk.

ITEM 104PA-4X – POLYOLEFIN COATED CHAIN LINK FENCING 4' HIGH (TOP & BOTTOM TENSION WIRE)
ITEM 104PA-6X – POLYOLEFIN COATED CHAIN LINK FENCING 6' HIGH (TOP & BOTTOM TENSION WIRE)
ITEM 104PA-8X – POLYOLEFIN COATED CHAIN LINK FENCING 8' HIGH (TOP & BOTTOM TENSION WIRE)
ITEM 104PA-10X – POLYOLEFIN COATED CHAIN LINK FENCING 10' HIGH (TOP & BOTTOM TENSION WIRE)
ITEM 104PA-12X – POLYOLEFIN COATED CHAIN LINK FENCING 12' HIGH (TOP & BOTTOM TENSION WIRE)
ITEM 104PB-4X – POLYOLEFIN COATED CHAIN LINK FENCING 4' HIGH (TOP RAIL & BOTTOM TENSION WIRE)
ITEM 104PB-6X – POLYOLEFIN COATED CHAIN LINK FENCING 6' HIGH (TOP RAIL & BOTTOM TENSION WIRE)
ITEM 104PB-8X – POLYOLEFIN COATED CHAIN LINK FENCING 8' HIGH (TOP RAIL & BOTTOM TENSION WIRE)
ITEM 104PB-10X – POLYOLEFIN COATED CHAIN LINK FENCING 10' HIGH (TOP RAIL & BOTTOM TENSION WIRE)
ITEM 104PB-12X – POLYOLEFIN COATED CHAIN LINK FENCING 12' HIGH (TOP RAIL & BOTTOM TENSION WIRE)
ITEM 104PC-4X – POLYOLEFIN COATED CHAIN LINK FENCING 4' HIGH (TOP & BOTTOM RAILS)
ITEM 104PC-4-1X – POLYOLEFIN COATED CHAIN LINK FENCING 4' HIGH 1" MESH (TOP & BOTTOM RAILS)
ITEM 104PC-6X – POLYOLEFIN COATED CHAIN LINK FENCING 6' HIGH (TOP & BOTTOM RAILS)
ITEM 104PC-8X – POLYOLEFIN COATED CHAIN LINK FENCING 8' HIGH (TOP & BOTTOM RAILS)
ITEM 104PC-10X – POLYOLEFIN COATED CHAIN LINK FENCING 10' HIGH (TOP & BOTTOM RAILS)
ITEM 104PC-12X – POLYOLEFIN COATED CHAIN LINK FENCING 12' HIGH (TOP & BOTTOM RAILS)
ITEM 104PD-6X – POLYOLEFIN COATED CHAIN LINK FENCING 6' HIGH W/CONC CURB

A. Description.

1. All requirements of items 104PA-4 through 104PD-6 shall apply from 2009 Nassau County Standard Specifications except for tie wires spacing. The fabric shall be secured to all corner, gate and terminal posts with stretchers or tension bars fastened to posts and galvanized steel bands at 12 inch intervals with all terminal adjustments completely housed. The fabric shall be fastened to the line posts and braces with tie wires spaced not more than 12 inches on center. It shall be attached to the tension wire by means of 9 gauge polyolefin coated rings spaced at intervals of 2 feet and it shall be attached to the top, mid and bottom rails by means of the tie wires spaced at intervals of 12 inches.

ITEM 104R-4-1 - RENOVATE 4' CHAIN LINK FENCE - 1" MESH

All provisions of Item 104R-4 shall apply except the fabric for fence Item 104R-4-1 shall be one (1") inch mesh.

ITEM 104VCA-4 - VINYL CLAD CHAIN LINK FENCING - 4' HIGH
ITEM 104VCA-6 - VINYL CLAD CHAIN LINK FENCING - 6' HIGH
ITEM 104VCA-8 - VINYL CLAD CHAIN LINK FENCING - 8' HIGH
ITEM 104VCA-10 - VINYL CLAD CHAIN LINK FENCING - 10' HIGH
ITEM 104VCA-12 - VINYL CLAD CHAIN LINK FENCING - 12' HIGH

A. Description.

1. Under these Items the Contractor shall furnish and erect a fully galvanized steel vinyl clad chain link fence system with top and bottom tension wire where shown on the Plans or directed by the Engineer, in accordance with the Standard or approved Detail Sheet for Type A Fencing and the requirements modified and stated herein.

B. Materials.

1. **Posts, Rails, Braces and Fittings.**
   a. **Class A, Schedule 40 Pipe.** Posts, rails and braces shall be standard full weight Schedule 40 Pipe having a minimum yield strength of 30,000 psi, manufactured in accordance with ASTM F 1083, except that the protective coating system shall be as specified herein.
   b. **Class B, Steel Tubing.** Posts, rails and braces shall be manufactured by one of the following methods with the steel conforming to ASTM A569M or ASTM A607 with a minimum yield strength of 50,000 psi:
      1) Furnace butt welded, continuous welded
      2) Cold rolled and electric resistance welded
         a) Seamless
   c. Posts, rails and braces shall conform to the following standards:

Industry Size	Outside Diameter	Wall Thickness		Weight	
		Class A	Class B	Class A	Class B
Inches	Inches	Inches	Inches	PLF	PLF
1 5/8	1.66	0.14	0.111	2.27	1.82
2	1.90	0.145	0.12	2.72	2.28
2 ½	2.375	0.154	0.13	3.65	3.12
3	2.875	0.203	0.16	5.79	4.64
3 ½	3.50	0.216	0.16	7.58	5.71
4	4.00	0.226	0.16	9.11	6.56

   d. ***Protective Coating Systems.*** Posts, rails and braces shall be coated with a protective coating system conforming to one of the following depending on structural member.
      1) **Galvanized Coatings.** Galvanized both inside and out in accordance with ASTM F 1083.
      2) **Combined Coatings.**
      3) External surfaces shall be coated with the following combined coating system:

a) Hot Dip Galvanizing. The external surface shall be hot-dip galvanized with "Special High Grade" or "High Grade" slab zinc conforming to ASTM B6. The weight of the coating shall be a minimum 0.80 oz/ft².

b) Chromate Conversion Coating. Chromate conversion coating shall be specifically designed for use as a pretreatment of galvanized surfaces. The coating shall be applied prior to the application of the thermoplastic acrylic coating at the manufacturer's recommended rate.

c) Thermoplastic Acrylic Coating. A thermoplastic acrylic coating shall be electrostatically applied with a minimum dry film thickness of 0.3 mils.

4) Internal Surfaces. The internal surfaces of the pipe or tubing shall have either a zinc coating and shall have a minimum dry film thickness of 0.3 mils. The rich zinc coating shall contain not less than 80% zinc dust by weight and shall be capable of providing galvanic protection.

e. **Top Rails.** When specified, 1 5/8" O.D. galvanized steel pipe shall be used for top, mid and bottom rails of the fence. Mid brace rails shall be installed at each corner, intermediate, terminal and gate post.

f. **Fittings**. Except as otherwise herein specified or shown on the plans, fittings shall be of best quality malleable iron castings, wrought iron forgings or pressed steel, and shall be galvanized in accordance with ASTM Specifications A 123. Malleable iron fittings shall be galvanized in accordance with ASTM A 338.

g. **Vinyl Coating – When Applicable.**

1) **Material Requirements.** Posts, rails and braces shall comply with the above material requirements and in addition be resin-clad with either an epoxy modified poly (vinyl chloride), or a thermoplastic polyester resin. The coating shall have a minimum thickness of 0.178 mm and shall be of the same color as the fabric.

2) **Fabrication Requirements.** The epoxy modified poly (vinyl chloride) coating shall be chemically bonded to heated pipe or the pipe shall be clad with a heavy molecule, saturated, linear thermoplastic polyester resin applied by electrostatic spray and fusing or equal method.

2. **Fabric.**

a. **Mesh Size, Fabric Gauge and Zinc Coating:**

ITEM NO.	FENCE HEIGHT	MESH SIZE	FABRIC GAUGE	MIN. ZINC (OZ/FT²)
104VCA-4-1	4'	1"	9 (0.148")	0.30
104VCA-4	4'	2"	6 (0.192")	0.40
104VCA-6	6'	2"	6 (0.192")	0.40
104VCA-8	8'	2"	6 (0.192")	0.40
104VCA-10	10'	2"	6 (0.192")	0.40
104VCA-12	12'	2"	6 (0.192")	0.40

b. **Wire.** The wire shall have a minimum tensile strength of 243,000 psi and be manufactured from galvanized open hearth steel core wire. The mesh shall be helically woven in a chain link diamond pattern of the size specified in the above table or individual work order.

c. ***Zinc-Coating.*** The mesh shall conform to ASTM F 668 and the weight of the coating shall be as stated in the above table using the hot-dip process after weaving.

d. ***Selvage.*** All selvages shall be knuckled and knuckled unless otherwise specified in the Plans and/or ordered by the Engineer.

e. **Vinyl Coating in Accordance with ASTM F 668, Class 2b.**

1) The color of the vinyl coating shall be black or green, unless another color is requested by an individual work order.

2) The polymer coating shall be continuously applied over the galvanized wire by the extrusion process and the vinyl coating shall be bound to the steel wire with an adherent to insure a dense and impervious covering free of voids and having a smooth lustrous surface appearance. The wire shall be vinyl clad before weaving and shall be free and flexible at all joints.

3) Colors shall be stabilized and shall withstand a minimum weather-o-meter exposure test of 1,000 hours without visible fading or discoloration.

4) The vinyl covered wire shall withstand an accelerated aging test of a minimum of 1,000 hours at 145°F, without any cracking or peeling and shall exhibit a maximum shrinkage of 1/16 inch per 12 inches. The vinyl clad chain link fabric wire shall withstand a mandrel bend test (10 X o.d. on wire at minus 50°C) without cracking.

5) The vinyl covering shall be capable of withstanding prolonged exposure to dilute solutions of most common mineral acids, seawater, and dilute solutions of most salts and alkali.

3. **Tension Wire.** Tension wire shall be marcelled 9 gauge core vinyl coated galvanized wire having a zinc coating of 0.30 oz/ft^2 and conforming to ASTM F 1664.

4. **Tie Wires.** Tie wires shall be 9 gauge core vinyl coated galvanized wire having a zinc coating of 0.30 oz/ft^2 and conforming to ASTM F 1664.

5. The delivery tickets shall be endorsed with the manufacturer's voucher certifying that the materials used in the manufacture of the fencing comply with these specifications. Additional tests maybe required at the discretion of the Engineer.

C. Construction Details.

1. Clear and remove from the site all brush, small trees, fallen trees and debris, etc. that interfere with the fence installation where shown on the Plans and when directed by the Engineer. The alignment of the fence may be adjusted at the discretion of the Engineer to avoid the removal of trees. All costs associated with this work will be paid for under Item 1X – Clearing and Grubbing.

2. The Contractor shall do such grading as necessary to provide a minimum clearance of one (1") inch and a maximum clearance of two (2") inches under the fabric. Where crossing a ravine, in order to keep a reasonably smooth top fence line, the Contractor shall weave additional fabric on the bottom to provide this clearance.
3. The Contractor shall dispose of excess earth material on the site where directed and clean up the work area so that it is left in a neat condition.
4. Stretches of fence more than 500 feet in length shall have one intermediate post with braces in two directions for every 500 feet or fraction thereof. A corner post shall be placed at every change in course as the Engineer directs.
5. Post Sizes and Spacing

FENCE HEIGHT	LINE POST SIZE (O.D.)	CORNER, INTERMEDIATE AND TERMINAL POST SIZE (O.D.)	MAXIMUM ON CENTER POST SPACING
4'	2 "	2 ½ "	10'-0"
6'	2 ½ "	3"	10'-0"
8'	2 ½ "	3"	10'-0"
10'	3"	4"	10'-0"
12'	3"	4"	10'-0"

6. Where shown on the Plans or designated by the Engineer, the Contractor shall install fence line posts plumb in concrete footings that are 3'-0" deep by 4 x O.D. inches in diameter. The concrete shall conform to Class A concrete 1-2-4 mix as specified in Item 17A, but payment shall be made under this Item. Footings shall be cast rough in the ground and pitched above grade to shed water. The cost of excavation and backfilling for footings shall also be paid for under this Item.
7. The fabric shall be secured to all corner, gate and terminal posts with tension bars fastened to posts and galvanized steel tension bands at 12 inch intervals. The fabric shall be fastened to the line posts and braces with tie wires spaced not more than 12 inches on center. Fabric shall be stretched to provide a smooth, taut, uniform appearance free from sag.
8. **Tension Wires.** Tension wires shall be stretched along the bottom of the fence where shown and securely fastened to the line posts. The fabric is to be attached to the tension wire by means of 9 gauge core vinyl coated hog rings spaced at intervals of two (2') feet.
9. **Rails.**
   a. **Top Rail.** When top rail is specified, it shall pass through the base of the line tops to form a continuous brace from end to end of each stretch of fence. Individual rails shall be joined at ends with sleeve couplings and securely fastened to corner, gate and terminal posts by means of brace bands and rail end connectors.

b. **Mid and Bottom Rails.** When mid and/or bottom rail is specified, it shall terminate at each line post using a boulevard clamp and each corner, gate and terminal post using a brace band and rail end connector or end rail clamp.

c. The fabric shall be secured to the rails by means of tie wires spaced at intervals of 12 inches.

10. When concrete curbs or mowing strips are indicated on the Plans, the Contractor shall coordinate the installation of the concrete fence footings and the installation of concrete curbs or mowing strips. If sleeves or core drilling is required, payment shall be made under this Item. Curbs and mower strips shall be paid for under the appropriate contract items.

D. Shop Drawings and Testing.

1. Prior to ordering any fencing, the Contractor shall submit to the Engineer for approval, shop drawings of the proposed fence installation showing complete details of material sizes, shapes and heights, proposed methods of fastening and complete details of all hardware to be used.
2. A 2' x 2' sample of the fence fabric shall be submitted for purpose of testing, as well as any other material or components deemed necessary by the Engineer.
3. Any material ordered by the Contractor prior to obtaining approval and which shall later be found unsatisfactory on the basis of test results shall be replaced to the satisfaction of and at no additional cost to the County.

E. Maintenance of Fencing.

1. The Contractor shall maintain the fencing until accepted by the County. All debris accumulation along the fencing shall be removed. Any settlement, movement or misalignment of the fencing shall be corrected by resetting of posts and fabric at the completion of work.
2. Where protective coating of vinyl has been fractured of otherwise damaged and its effectiveness to prevent corrosion of the base metal nullified, the affected parts shall be replaced.

F. Method of Measurement.

1. The quantity of chain link fence to be paid for shall be the total number of lineal feet of each type of fencing measured in final position, furnished, installed and maintained complete, where shown on the Plans or directed by the Engineer, including grading, excavation, footings, painted frame work, disposal of excess earth and clean up.
2. An allowance of ten (10') feet will be added for each end post, corner post and pull post installed in accordance with the Plans, Specifications, Standard Sheets and directions of the Engineer.
3. Measurement for any material woven on the bottom shall be a conversion of the number of square feet so woven into lineal footage by dividing the square feet by the standard height.

G. Basis of Payment.

1. The unit price bid for this item shall include the cost of furnishing all labor, materials, tools, equipment, Shop Drawings and incidentals necessary to satisfactorily complete the required work.

ITEM 104VCB-4 - VINYL CLAD CHAIN LINK FENCING - 4' HIGH
ITEM 104VCB-6 - VINYL CLAD CHAIN LINK FENCING - 6' HIGH
ITEM 104VCB-8 - VINYL CLAD CHAIN LINK FENCING - 8' HIGH
ITEM 104VCB-10 - VINYL CLAD CHAIN LINK FENCING - 10' HIGH
ITEM 104VCB-12 - VINYL CLAD CHAIN LINK FENCING - 12' HIGH

All requirements of Items 104VCA-4 though 104VCA-12 shall apply, with the following modifications:

A. Description.

1. Under these Items the Contractor shall furnish and erect a fully vinyl clad galvanized steel chain link fence system with top rail and bottom tension wire where shown on the Plans or directed by the Engineer, in accordance with the Standard or approved Detail Sheet for Type B Fencing and the requirements stated herein.

ITEM 104VCC-4 - VINYL CLAD CHAIN LINK FENCING - 4' HIGH
ITEM 104VCC-4 -1 VINYL CLAD CHAIN LINK FENCING - 4' HIGH, 1" MESH
ITEM 104VCC-6 - VINYL CLAD CHAIN LINK FENCING - 6' HIGH
ITEM 104VCC-8 - VINYL CLAD CHAIN LINK FENCING - 8' HIGH
ITEM 104VCC-10 - VINYL CLAD CHAIN LINK FENCING - 10' HIGH
ITEM 104VCC-12 - VINYL CLAD CHAIN LINK FENCING - 12' HIGH

All requirements of Items 104VCA-4 though 104VCA-12 shall apply, with the following modifications:

A. Description.

1. Under these Items the Contractor shall furnish and erect a fully vinyl clad galvanized steel vinyl clad chain link fence system with top and bottom rails where shown on the Plans or directed by the Engineer, in accordance with the Standard or approved Detail Sheet for Type C Fencing and the requirements stated herein.

ITEM 104VCD-6 - VINYL CLAD CHAIN LINK FENCING WITH CONCRETE CURB - 6' HIGH

All requirements of Items 104VCA-4 though 104VCA-12 shall apply, with the following modifications:

A. Description.

1. Under this Item the Contractor shall furnish and erect a fully vinyl clad galvanized steel vinyl clad chain link fence system with top and bottom tension wire and continuous concrete curb where shown on the Plans or directed by the Engineer, in accordance with the Standard Detail Sheet for Type A Fencing with Concrete Curb and the requirements stated herein.
2. Particular attention is directed to the specifications for Item 2 - Unclassified Excavation, which requires complete enclosure of proposed storm water storage basin sites prior to starting of any excavation.

B. Materials.

1. **Fabric Anchors.** The fabric anchors shall be "Z" type having a 3/8" diameter and thirteen (13") inch overall length and shall have bent right angles. The anchors shall be embedded in the concrete with the bent end five (5") inches below the finished top of curb.
2. **Selvages.** The fabric shall have a twisted top and knuckled bottom selvage.

C. Construction Details.

1. The Contractor shall install a continuous cement concrete curb along the fence lines as shown on the Standard Detail Sheet for Type A - Fencing With Concrete Curb. The curb section between fence posts shall be 8" wide and 24" deep. At each fence post, the top 3 1/2" of the curb shall be cast between side forms and the remaining portion below shall be cast rough and increased to accommodate the specified cement concrete footing diameter.
2. Expansion joints 1/2" wide shall be provided for the full depth of the section and the exposed concrete surface at the top of the curb shall be finished smooth and true to line and grade as shown on the Standard Detail Sheet or as directed by the Engineer.
3. The bottom of the chain link fabric shall be installed a maximum of two (2") inches above the finish surface and secured to the curb by means of fabric anchors set in the concrete at three foot (3'-4") four inch intervals between posts. After the fence fabric has been installed and secured to the posts, the upper portion of the fabric anchor shall be bent through mesh and clinched to form a tight hook.

D. Method of Measurement.

1. The quantity to be paid for under this Item shall be the total number of linear feet of vinyl clad chain link fencing with concrete curb, measured in final position, furnished

and installed complete in accordance with the Plans, Specifications and orders of the Engineer.

E. Basis of Payment.

1. The unit price bid for this item shall include the cost of furnishing all labor, materials, tools, equipment and incidentals necessary to satisfactorily complete the required work including, excavation, fill, concrete, grading, and shop drawings.

ITEM 104VCE- BB - VINYL CLAD BACKSTOP - BASEBALL
ITEM 104VCE- SB - VINYL CLAD BACKSTOP - SOFTBALL/LITTLE LEAGUE

A. Description.

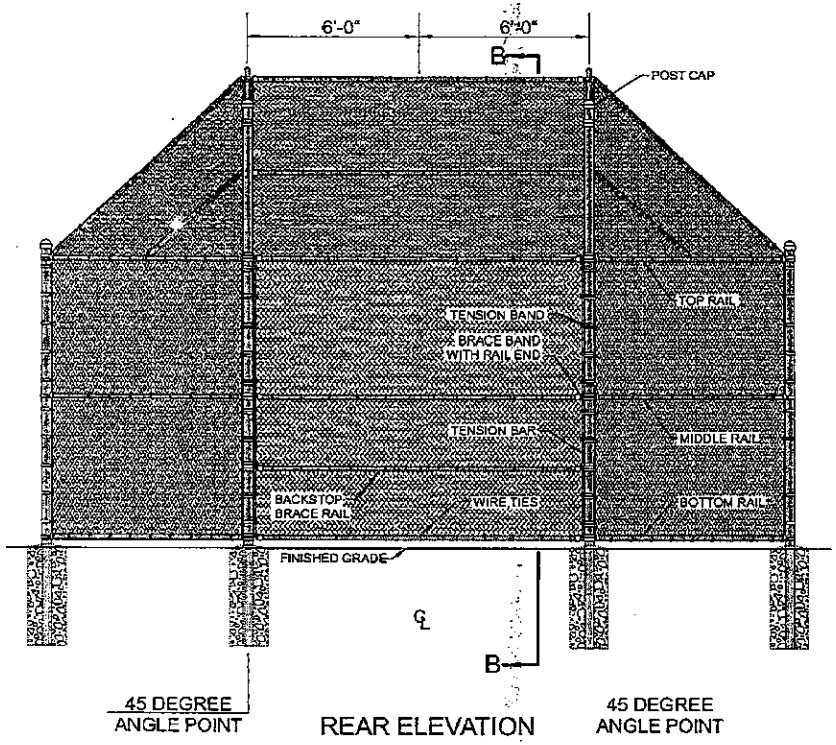
1. Under these Items the Contractor shall furnish and install Softball/Little League and/or Baseball Backstops in accordance with the Plans, Standard Detailed Sheets, fence manufacturer's specifications, and as directed by the Engineer. The work shall also include excavation, footings and installation of the backstops.

B. Materials.

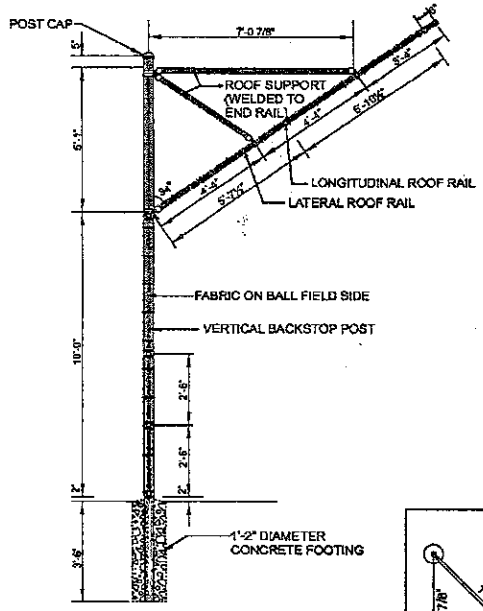
1. The backstops shall be per the Plans or an approved equal. All posts, rails, fabric, braces, tension bands and ties shall be black vinyl clad.
2. The fabric on the side and rear panels of the backstop shall be vinyl clad, 6 gauge core wire - 2" mesh. The fabric on the top panel shall be vinyl clad, 9 gauge core wire - 2" mesh. All fabric specifications except for cores shall conform to Item 104P - vinyl clad Chain Link Fencing, but shall be paid for under these Items.
3. The 3" and 4" O.D. vertical posts shall be set plumb in 16" diameter x 48" deep concrete footings. The concrete shall be cast rough in the ground around the posts. All concrete footings shall conform to the requirements of Item 17A - Class A Concrete, but paid as part of the cost for this Item. When required, the 16" wide concrete mowing strip shall conform to the requirements of and be paid for under Item 27MS - Concrete Mowing Strip. The fence fabric and bolts are to be installed smooth side towards the playing area.

C. Measurement and Payment.

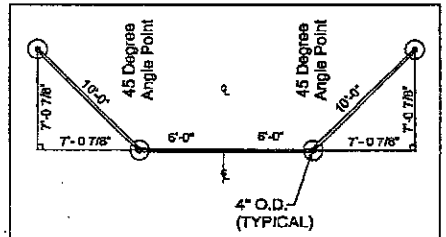
1. The quantity to be paid for under this Item shall be the number of square feet of backstops furnished and installed and shall include all materials, equipment and labor required to complete the baseball backstop including but not limited to backstop fencing, excavation and backfill. When required, the cost of the concrete mowing strip will be included under Item 27MS.



REAR ELEVATION



SECTION B - B



PLAN VIEW

POST AND RAIL CONFIGURATION
SCALE: 1/8" = 1'-0"

NOTE: ROOF TO ACCEPT 12' WIDE FABRIC ABOVE. THE LONGITUDINAL AND LATERAL BRACING. THE DRAWING DEPICTS THE FABRIC BELOW THE BRACING TO SIMPLIFY VIEWING.

10'-0" x 12'-0" x 10'-0" x 10'-0" HIGH - GALVANIZED OR VINYL SYSTEM

CHAIN LINK FABRIC:	SHALL BE 2" MESH, 9 GAUGE CORE (6 GAUGE FINISH) EXTRUDED & BONDED VINYL COATED CHAIN LINK FABRIC IN ACCORDANCE WITH ASTM F668, CLASS 2a OR 2" MESH, 9 GAUGE 1.2 OZ GALVANIZED, CLASS 1 CHAIN LINK FABRIC IN ACCORDANCE WITH ASTM A 392 WITH KNUCKLED TOP AND BOTTOM SELVAGES
REAR BACKSTOP POST:	4" O.D., 9.11 LBS PER LF - VINYL COATED SCHEDULE 40 STEEL PIPE SET IN 14" DIAMETER x 42" DEEP, 3,000 PSI CONCRETE FOOTINGS AT 12'-0" O.C.
WING BACKSTOP POST:	4" O.D., 9.11 LBS PER LF - VINYL COATED SCHEDULE 40 STEEL PIPE SET IN 14" DIAMETER x 42" DEEP, 3,000 PSI CONCRETE FOOTINGS AT 10'-0" O.C.
TOP/MID/BOTTOM RAILS:	1 5/8" O.D., 2.27 LBS PER LF - VINYL COATED SCHEDULE 40 STEEL PIPE
BACKSTOP BRACE RAILS:	1 5/8" O.D., 2.27 LBS PER LF - VINYL COATED SCHEDULE 40 STEEL PIPE
LONGITUDINAL ROOF RAILS:	2" O.D., 2.72 LBS PER LF - VINYL COATED SCHEDULE 40 STEEL PIPE
LATERAL ROOF RAILS:	2" O.D., 2.72 LBS PER LF - VINYL COATED SCHEDULE 40 STEEL PIPE
TIE WIRES:	9 GAUGE VINYL COATED ALUMINUM WIRE TIES IN ACCORDANCE WITH ASTM F 626 AT 12" O.C.
FITTINGS AND ACCESSORIES:	VINYL COATED PRESSED STEEL OR CAST IRON AND HOT DIPPED GALVANIZED WITH 1.2 OZ. OF ZINC PER SF IN ACCORDANCE WITH ASTM F626

SCALE: 1/4" = 1'-0"

NASSAU COUNTY

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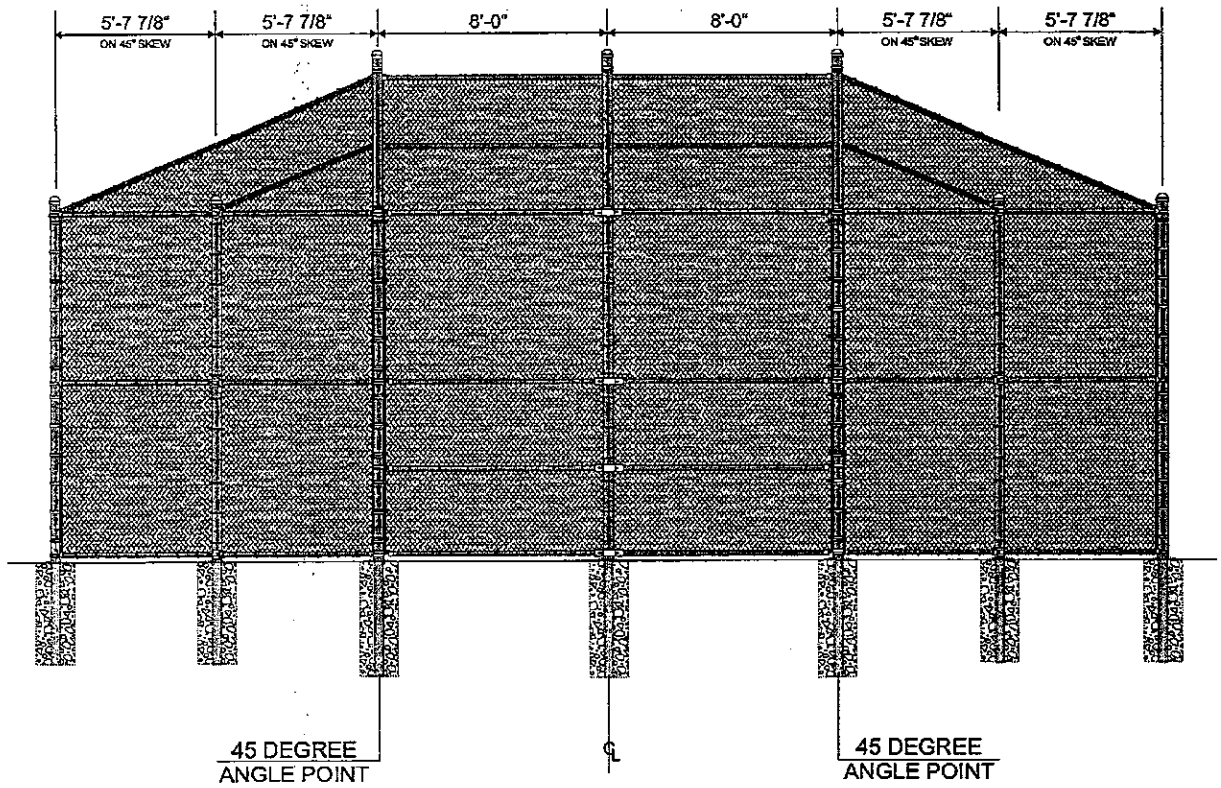
Approved 4/20/21



16'-0" x 16'-0" x 16'-0" x 12'-0" HIGH - GALVANIZED OR VINYL SYSTEM

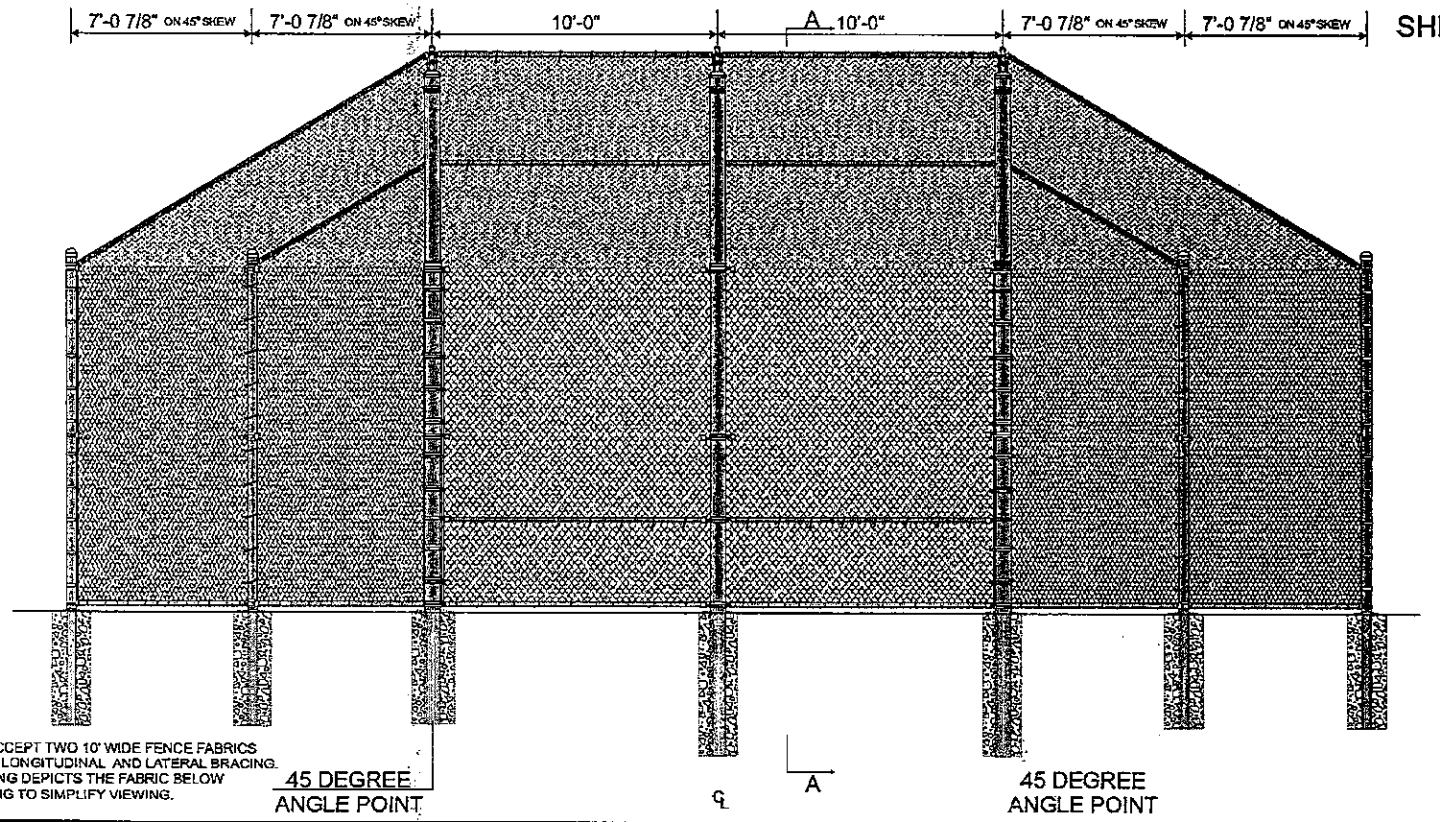
CHAIN LINK FABRIC:	SHALL BE 2" MESH, 9 GAUGE CORE (6 GAUGE FINISH) EXTRUDED & BONDED VINYL COATED CHAIN LINK FABRIC IN ACCORDANCE WITH ASTM F668, CLASS 2a OR 2" MESH, 9 GAUGE 1.2 OZ GALVANIZED, CLASS 1 CHAIN LINK FABRIC IN ACCORDANCE WITH ASTM A 392 WITH KNUCKLED TOP AND BOTTOM SELVAGES
REAR BACKSTOP POST:	4" O.D., 9.11 LBS PER LF - VINYL COATED SCHEDULE 40 STEEL PIPE SET IN 14" DIAMETER x 48" DEEP, 3,000 PSI CONCRETE FOOTINGS AT 8'-0" O.C.
WING BACKSTOP POST:	4" O.D., 9.11 LBS PER LF - VINYL COATED SCHEDULE 40 STEEL PIPE SET IN 14" DIAMETER x 48" DEEP, 3,000 PSI CONCRETE FOOTINGS AT 8'-0" O.C.
TOP/MID/BOTTOM RAILS:	1 5/8" O.D., 2.27 LBS PER LF - VINYL COATED SCHEDULE 40 STEEL PIPE
BACKSTOP BRACE RAILS:	1 5/8" O.D., 2.27 LBS PER LF - VINYL COATED SCHEDULE 40 STEEL PIPE
LONGITUDINAL ROOF RAILS:	2" O.D., 2.72 LBS PER LF - VINYL COATED SCHEDULE 40 STEEL PIPE
LATERAL ROOF RAILS:	2" O.D., 2.72 LBS PER LF - VINYL COATED SCHEDULE 40 STEEL PIPE
TIE WIRES:	9 GAUGE VINYL COATED ALUMINUM WIRE TIES IN ACCORDANCE WITH ASTM F 626 AT 12" O.C.
FITTINGS AND ACCESSORIES:	VINYL COATED PRESSED STEEL OR CAST IRON AND HOT DIPPED GALVANIZED WITH 1.2 OZ. OF ZINC PER SF IN ACCORDANCE WITH ASTM F626

NOTE: ROOF TO ACCEPT 12' WIDE FABRIC ABOVE THE LONGITUDINAL AND LATERAL BRACING. THE DRAWING DEPICTS THE FABRIC BELOW THE BRACING TO SIMPLIFY VIEWING.

SCALE: 1/4" = 1'-0"

NASSAU COUNTY

Document Tracking Number: 2102U



NOTE: ROOF TO ACCEPT TWO 10' WIDE FENCE FABRICS ABOVE THE LONGITUDINAL AND LATERAL BRACING. THE DRAWING DEPICTS THE FABRIC BELOW THE BRACING TO SIMPLIFY VIEWING.

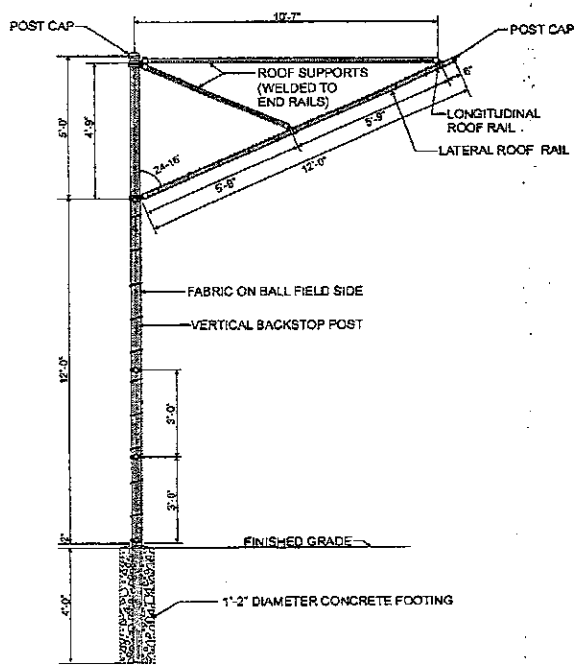
20'-0" x 20'-0" x 20'-0" x 12'-0" HIGH - GALVANIZED OR VINYL SYSTEM

CHAIN LINK FABRIC:	SHALL BE 2" MESH, 9 GAUGE CORE (6 GAUGE FINISH) EXTRUDED & BONDED VINYL COATED CHAIN LINK FABRIC IN ACCORDANCE WITH ASTM F668, CLASS 2a OR 2" MESH, 9 GAUGE 1.2 OZ GALVANIZED, CLASS 1 CHAIN LINK FABRIC IN ACCORDANCE WITH ASTM A 392 WITH KNUCKLED TOP AND BOTTOM SELVAGES
REAR BACKSTOP POST:	6 5/8" O.D., 18.97 LBS PER LF - VINYL COATED SCHEDULE 40 STEEL PIPE SET IN 16" DIAMETER x 60" DEEP, 3,000 PSI CONCRETE FOOTINGS AT 10'-0" O.C.
WING BACKSTOP POST:	4" O.D., 9.11 LBS PER LF - VINYL COATED SCHEDULE 40 STEEL PIPE SET IN 16" DIAMETER x 48" DEEP, 3,000 PSI CONCRETE FOOTINGS AT 10'-0" O.C.
TOP/MID/BOTTOM RAILS:	1 5/8" O.D., 2.27 LBS PER LF - VINYL COATED SCHEDULE 40 STEEL PIPE
BACKSTOP BRACE RAILS:	1 5/8" O.D., 2.27 LBS PER LF - VINYL COATED SCHEDULE 40 STEEL PIPE
LONGITUDINAL ROOF RAILS:	2" O.D., 2.72 LBS PER LF - VINYL COATED SCHEDULE 40 STEEL PIPE
LATERAL ROOF RAILS:	2" O.D., 2.72 LBS PER LF - VINYL COATED SCHEDULE 40 STEEL PIPE
TIE WIRES:	9 GAUGE VINYL COATED ALUMINUM WIRE TIES IN ACCORDANCE WITH ASTM F 626 AT 12" O.C.
FITTINGS AND ACCESSORIES:	VINYL COATED PRESSED STEEL OR CAST IRON AND HOT DIPPED GALVANIZED WITH 1.2 OZ. OF ZINC PER SF IN ACCORDANCE WITH ASTM F626

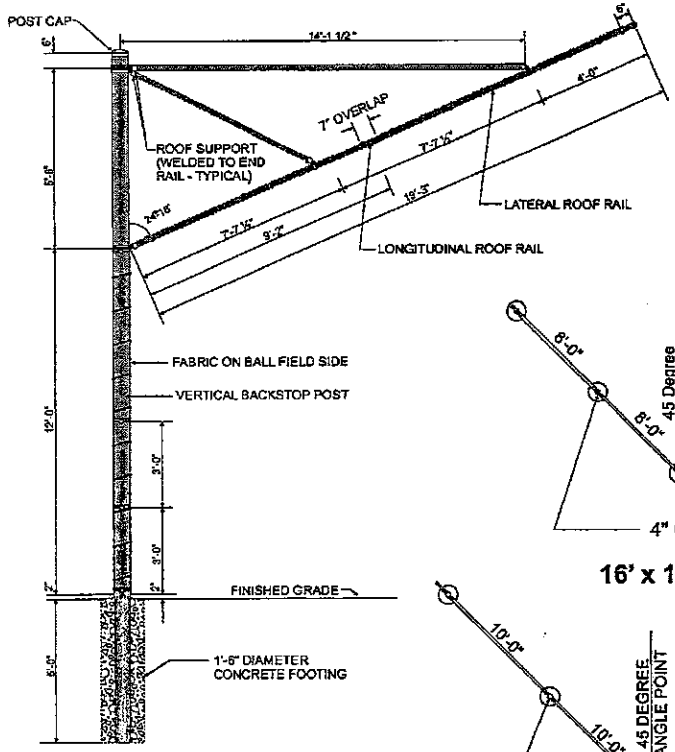
SCALE: 1/4" = 1'-0"

NASSAU COUNTY

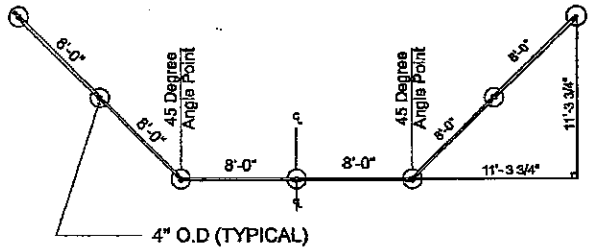
Contract Document



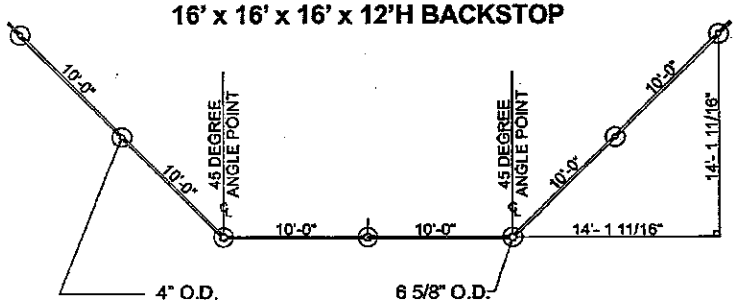
SECTION A - A
16' x 16' x 16' x 12'H BACKSTOP



SECTION A - A
20' x 20' x 20' x 12'H BACKSTOP



16' x 16' x 16' x 12'H BACKSTOP



20' x 20' x 20' x 12'H BACKSTOP

PLAN VIEW

POST AND RAIL CONFIGURATION
SCALE: 1/8" = 1'-0"

CUT AWAY SIDE VIEW THROUGH REAR BACKSTOP POST

CHAIN LINK FABRIC:	SHALL BE 2" MESH, 9 GAUGE CORE (6 GAUGE FINISH) EXTRUDED & BONDED VINYL COATED CHAIN LINK FABRIC IN ACCORDANCE WITH ASTM F668, CLASS 2a OR 2" MESH, 9 GAUGE 1.2 OZ GALVANIZED, CLASS 1 CHAIN LINK FABRIC IN ACCORDANCE WITH ASTM A 392 WITH KNUCKLED TOP AND BOTTOM SELVAGES
REAR BACKSTOP POST:	4" O.D. OR 6 5/8" O.D. DEPENDING ON BACKSTOP SIZE - SEE INDIVIDUAL SHEETS
WING BACKSTOP POST:	4" O.D., 9.11 LBS PER LF - VINYL COATED SCHEDULE 40 STEEL PIPE SET IN 14" DIAMETER x 8" DEEP, 3,000 PSI CONCRETE FOOTINGS AT 8'-0" OR 10'-0" O.C.
TOP/MID/BOTTOM RAILS:	1 5/8" O.D., 2.27 LBS PER LF - VINYL COATED SCHEDULE 40 STEEL PIPE
BACKSTOP BRACE RAILS:	1 5/8" O.D., 2.27 LBS PER LF - VINYL COATED SCHEDULE 40 STEEL PIPE
LONG. & LAT. ROOF RAILS:	2" O.D., 2.72 LBS PER LF - VINYL COATED SCHEDULE 40 STEEL PIPE
TIE WIRES:	9 GAUGE VINYL COATED ALUMINUM WIRE TIES IN ACCORDANCE WITH ASTM F 626 AT 12' O.C.
FITTINGS AND ACCESSORIES:	VINYL COATED PRESSED STEEL OR CAST IRON AND HOT DIPPED GALVANIZED WITH 1.2 OZ. OF ZINC PER SF IN ACCORDANCE WITH ASTM F626

SCALE: 1/4" = 1'-0"

NASSAU COUNTY

Contract No. 1013-20U

ITEM 104XR – MIDDLE RAIL, BRACE RAIL AND BOTTOM RAIL

All requirements of applicable Chain Link Fence Items (104 Series) shall apply, with the following modifications:

A. Description.

1. Under these Items the Contractor shall furnish and install an additional middle rail, brace rail and/or bottom rail where shown on the Plans or directed by the Engineer, in accordance with the Standard Detail Sheets and the requirements stated herein.
2. Middle rail, brace rail and bottom rail shall terminate at each line post using a boulevard clamp and each corner, gate and terminal post using a brace band and rail end connector or end rail clamp.

B. Measurement and Payment

1. The quantity to be paid for under this Item shall be the total number of linear feet of middle rail, brace rail and/or bottom rail measured in final position furnished and installed in accordance with these Specifications.
2. The unit price bid per linear foot for this Item shall include the cost of all labor, tools, materials, equipment and other incidentals.

ITEM 104XSB - REMOVE EXISTING BACKSTOP

A. Description.

1. Under this item the Contractor shall remove and dispose of the existing backstops including the removal and disposal of chain link fabric, fence, posts, rails, braces, hood, concrete footings, mowing strips, curbs and other appurtenances of the backstop.

B. Measurement and Payment.

1. The quantity of removed existing backstop to be paid for under this Item shall be the number of square feet of backstops and hoods which have been removed and disposed of satisfactorily in accordance with the Plans, Specifications and directions of the Engineer.
2. The price bid shall include all labor, materials, equipment and performance of all operations and work necessary to complete the removal of the existing backstop.

ITEM 104XSF - REMOVE EXISTING FENCE

A. Description.

1. Under this Item the Contractor shall remove and dispose of the existing fence including the removal and disposal of chain link fence fabric, stockade fence, posts, top-rails, braces, gates, concrete footings, mowing strips, and other appurtenances of the fence.

B. Measurement and Payment.

1. The quantity of removed existing fence to be paid for under this Item shall be the number of square feet of fence which have been removed and disposed of satisfactorily in accordance with the Plans, Specifications and directions of the Engineer.
2. For payment purposes, gates shall be added to the square footage of removed fence.
3. The price bid shall include all labor, materials, equipment and performance of all operations and work necessary to complete the removal of the existing fence and gate.

ITEM 105SFS-6 - 6' STOCKADE FENCE

ITEM 105SFS-8 - 8' STOCKADE FENCE

A. Description.

1. Under this Item, the Contractor shall install a stockade fence as shown on the Plans and or as directed by the Engineer.

B. Materials.

1. All fence materials described herein shall be as manufactured by Master Halco, Inc. 4000 W. Metropolitan Drive, Suite 400 Orange, CA 92868, Phone (800) 229-5615 Fax (714) 385-0107, or approved equal.
2. The wood shall be new cedar, 1" x 3" fence pickets, new cedar 2" x 3" fence rails and new spruce 1" x 4" post covers.
3. The 8' x 3-1/2" x 1-3/4" 11 gauge [0.120" thick galvanized steel posts as shown on the Plans shall be roll formed steel shapes complying with ASTM A 653 having a 50,000 psi yield strength and G90 zinc coating of 0.90 oz/ft^2 and weigh 2.64 plf with punch thru holes: 13/64" Dia. 1" OC. at both flanges. Galvanizing shall take place individually after drilling to ensure maximum corrosion protection. Posts are to be given a 4 stage "Power Wash" pre-treatment process that cleans and prepares the galvanized surface to assure complete adhesion of the finish coat. All metal are then to be given a polyester resin based power coating applied by the electrostatic spray process, to a thickness 2.5 mils and then baked in a 4500 F metal temperature oven for 20 minutes. Steel Post shall be warranted that they are free from defects in material and workmanship for a period of 15 years from the date of near completion.
4. The 10"/12" diameter 36" deep concrete footings shall be cast rough in the ground around the posts. All concrete footings shall conform to the requirements for Item 17A - Class A Concrete, but the cost will be included under this Item.
5. The 6'/8' stockade fence shall meet a minimum 70 MPH wind load when constructed with posts every 8', with 10"/12" diameter concrete footings set 36" deep in the ground, in reference to 1994 Uniform Building Code for Exposure "B". Any later building code that has been issued since 1994 shall govern.

C. Construction Details.

1. The stockade fence shall be constructed where indicated on the Plans, as shown on the appropriate Standard Detail Sheet. All excavation and backfill shall conform to the requirements of PART III, SECTION D.
2. A hole shall be drilled in firm, undisturbed or compacted soil. Excavation shall be deeper as required for adequate support in soft and loose soils, and for posts with heavy lateral loads. The post bottom shall be set 24" below surface when in firm, undisturbed soil, and concrete placed around the post in a continuous pour.

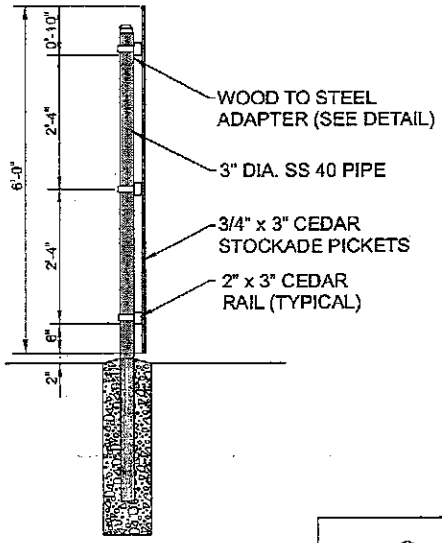
3. Trowel finishing shall be performed around posts and the concrete surfaces shall be sloped to direct water away from posts.
4. Each post shall be checked for vertical and top alignment, and maintained in position during the placement and finishing operation.
5. Concealment board shall be placed as shown on the appropriate Standard Detail Sheet over installed posts.

D. Method of Measurement.

1. The quantity to be paid for under this Item shall be the number of linear feet of 6'/8' stockade fence measured in place and accepted in accordance with the Plans and Specifications.

E. Basis of Payment.

1. The bid price per linear foot shall include the cost of all labor, materials, equipment and other incidentals required to complete the work as specified or indicated, including but not limited to stockade fencing, galvanized steel posts, concrete footing, all hardware, post caps, excavation and backfilling.
2. It is not anticipated but possible that loose soils could be encountered when placing footings at some locations which will require footings deeper than 30". There will be no additional payment for this additional work and/or concrete furnishing.



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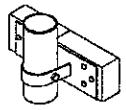
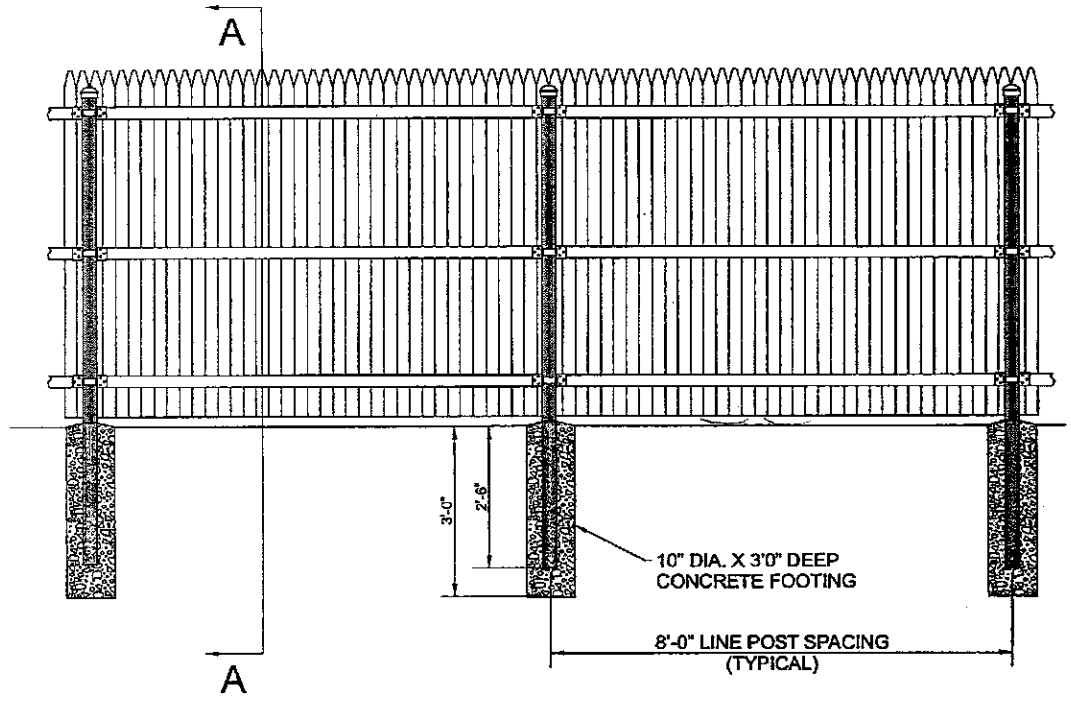


DETAIL
NOT TO SCALE



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Contract No. 1002U

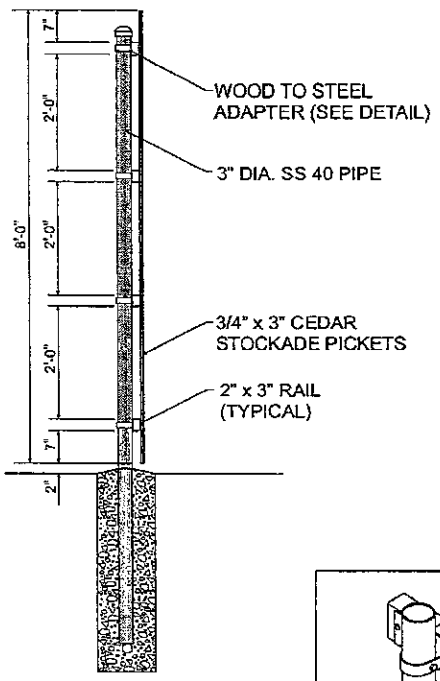
6'-0" HIGH CEDAR STOCKADE FENCE

PANEL MATERIAL:	3/4" x 3" No. 1 STK GRADE CEDAR BOARDS
LINE POSTS:	2 7/8" O.D., 4.64 LBS PER LF - SS 40 STEEL PIPE AS MANUFACTURED BY ALLIED TUBE & CONDUIT SET IN 10" DIAMETER x 36" DEEP 3,000 PSI CONCRETE FOOTINGS AT 8'-0" O.C. AND VARIABLE
TOP/MIDDLE/BOTTOM RAILS:	2" x 3" No. 1 STK GRADE CEDAR
WOOD TO STEEL ADAPTERS:	FASTENED USING 9 - #8 x 1 ½" EPOXY COATED SCREWS
FITTINGS AND ACCESSORIES:	PRESSED STEEL AND HOT DIPPED GALVANIZED WITH 1.2 OZ. OF ZINC PER SF IN ACCORDANCE WITH ASTM F626

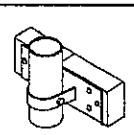
SCALE: ½"= 1'-0"

DATE: 10/27/09

NASSAU COUNTY



SECTION A - A



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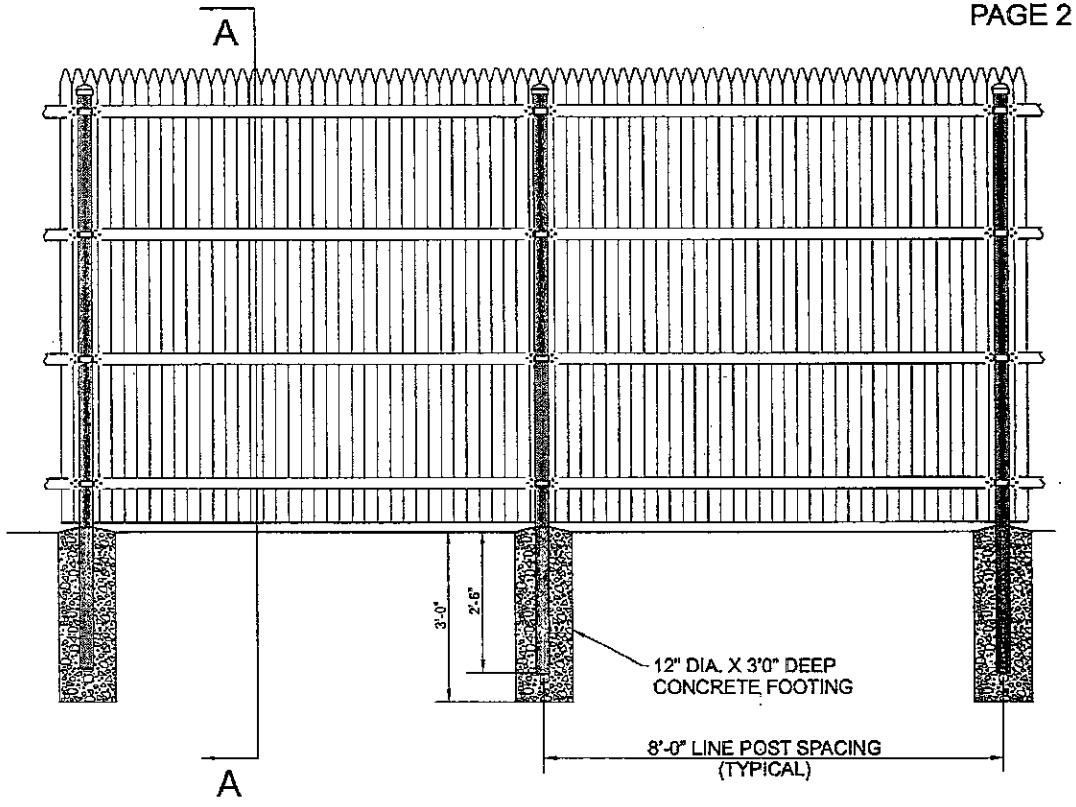


8'-0" HIGH CEDAR STOCKADE FENCE

PANEL MATERIAL:	3/4" x 3" No. 1 STK GRADE CEDAR BOARDS
LINE POSTS:	2 7/8" O.D., 4.64 LBS PER LF - SS 40 STEEL PIPE AS MANUFACTURED BY ALLIED TUBE & CONDUIT SET IN 12" DIAMETER x 36" DEEP 3,000 PSI CONCRETE FOOTINGS AT 8'-0" O.C. AND VARIABLE
TOP/MIDDLE/BOTTOM RAILS:	2" x 3" No. 1 STK GRADE CEDAR
WOOD TO STEEL ADAPTERS:	FASTENED USING 12 - #8 x 1 ½" EPOXY COATED SCREWS
FITTINGS AND ACCESSORIES:	PRESSED STEEL AND HOT DIPPED GALVANIZED WITH 1.2 OZ. OF ZINC PER SF IN ACCORDANCE WITH ASTM F626

SCALE: ½"= 1'-0"

DATE: 10/27/09

NASSAU COUNTY

Contract No. TBD12U

ITEM 106P - POST PAINTING

A. Description.

1. Under this Item the Contractor shall paint existing fence post type structures of various diameters, and/or sizes including but not limited to fence posts, basketball backstop posts, bollard posts, etc. The posts to be painted shall be where determined by the Engineer.

B. Materials and Methods.

C. The specified paints shall be as manufactured by The Sherwin-Williams Co., 6216 34th Ave., Woodside, NY 11377, (718) 426-8813, or approved equal.

D. Painting of Posts shall be painted as follows:

1. Prior to painting, the surface shall be prepared by removing grease, oil, loose paint, rust, dirt and other foreign substances to assure sound bonding of the new paint.
2. Recommended manufacturers drying times before recoating shall be strictly adhered to. Paint adhesion shall be 100% retention in accordance with ASTM D3359, classification SB and shall perform in accordance with ASTMG-53.
3. After the framework has been cleaned and prepared, it shall be painted with a Water Base Urethane System Gloss Finish by Sherwin Williams Company or approved equal with standard colors selected by the Engineer as follows:
   a. First Coat: Sherwin Williams Pro-Cryl Universal Acrylic Primer B66-310 Series 2.0 - 4.0 mils dry per coat.
   b. Second and Third Coat: Sherwin Williams Centurion WB Urethane, B65-700 series 2-3 mils dry per coat.
   c. All paints shall be applied when ambient air temperature is 50°F and rising and surfaces to be painted are moisture free. No painting will be allowed below the minimum ambient air temperature.
   d. In addition, no painting will be allowed below the temperature at which moisture will condense on surfaces.
   e. All coats shall be applied evenly. The cost of painting shall be included in the price bid for the contract item for fencing.

E. Method of Measurement.

1. The quantity to be paid for under this Item shall be the adjusted linear feet of posts painted based on the surface area of a 4" O.D. post painted all in accordance with the Plans, the Specifications and orders of the Engineer.

2. The following table provides the relevant multipliers:

SIZE	O.D.	MULTIPLIER
2"	1.90"	0.226
2 1/2"	2.375"	0.353
3"	2.875"	0.517
3 1/2"	3.5"	0.766
4"	4.0"	1.000
6 5/8"	6.625"	2.743
8 5/8"	8.625"	4.649

3. For example, the linear feet to be paid for a 10' long x 8 5/8" O.D. post would be calculated as the Actual Length of the Painted Post (LF) x Multiplier:

   Payment LF = 10 x 4.649 = 46.5 LF

4. The Payment Multiplier for a flat post would be calculated using its surface area (SF) divided by the surface area of a 4" O.D. post, which is 1.745 SF and multiplied by its length.

F. Basis of Payment.

1. The unit price per each post to be painted shall include the cost of furnishing all labor, materials, tools, equipment and incidentals necessary to satisfactorily complete the required work.

ITEM 106SVBG - SELF-SWING VEHICLE BARRIER GATES

A. Description.

1. Under this Item the Contractor shall furnish and install double self-swing barrier gates and all necessary accessories as specified herein in accordance with the details shown on the Plans and the requirements of Item 106VBG.
2. Double self-swing barrier gates shall be located as determined by the Engineer.

B. Materials and Workmanship.

1. Gate Posts. Gate posts shall be 4" O.D. Class B, Steel Tubing sleeved over 3 1/2" O.D. Class B Steel Tubing. Class A, Schedule 40 Pipe cannot be sleeved.
2. Two 1" long x 4" O.D. Class B, Steel Tubing collars shall be welded to the 3 ½" O.D. Class B Steel Tubing sleeve to:
   a. Establish adequate ground clearance at the bottom of the frame and
   b. Lock the 4" O.D. Class B, Steel Tubing pivot pipe onto the 3 ½" O.D. Class B Steel Tubing sleeve, so that it cannot be easily removed.
3. Gate Frames. Gate frames and braces shall be 2" Class B, Steel Tubing. All comers shall be securely welded. The frames shall be properly braced to prevent sagging.
4. Post caps shall be provided for the Gate Post and the exterior vertical gate frames.
5. A chain shall be welded on each gate frame to provide a means of securing the gate. Gate stops (hold backs) shall be provided.

C. Footings. All gate posts shall be set plumb in concrete piers of the depths and sizes shown. The concrete shall be Item 17A, Class A concrete 1-2-4 mix, but payment shall be under this item. Footings shall be cast rough in the ground and pitched above grade to shed water. The costs associated with excavation and backfilling for the footings will be paid for under this Item.

D. Shop Drawings and Testing.

1. Prior to ordering any gates, the Contractor shall submit to the Engineer for approval shop drawings (three more than to be returned) of the proposed gate installation showing complete details of material sizes, shapes and heights, proposed methods of fastening and complete details of all hardware to be used.
2. The Contractor shall submit for testing any material or components deemed necessary by the Engineer. Any material ordered by the Contractor prior to obtaining approval and which shall later be found unsatisfactory on the basis of test results shall be replaced by him with satisfactory materials at no additional cost to the County.

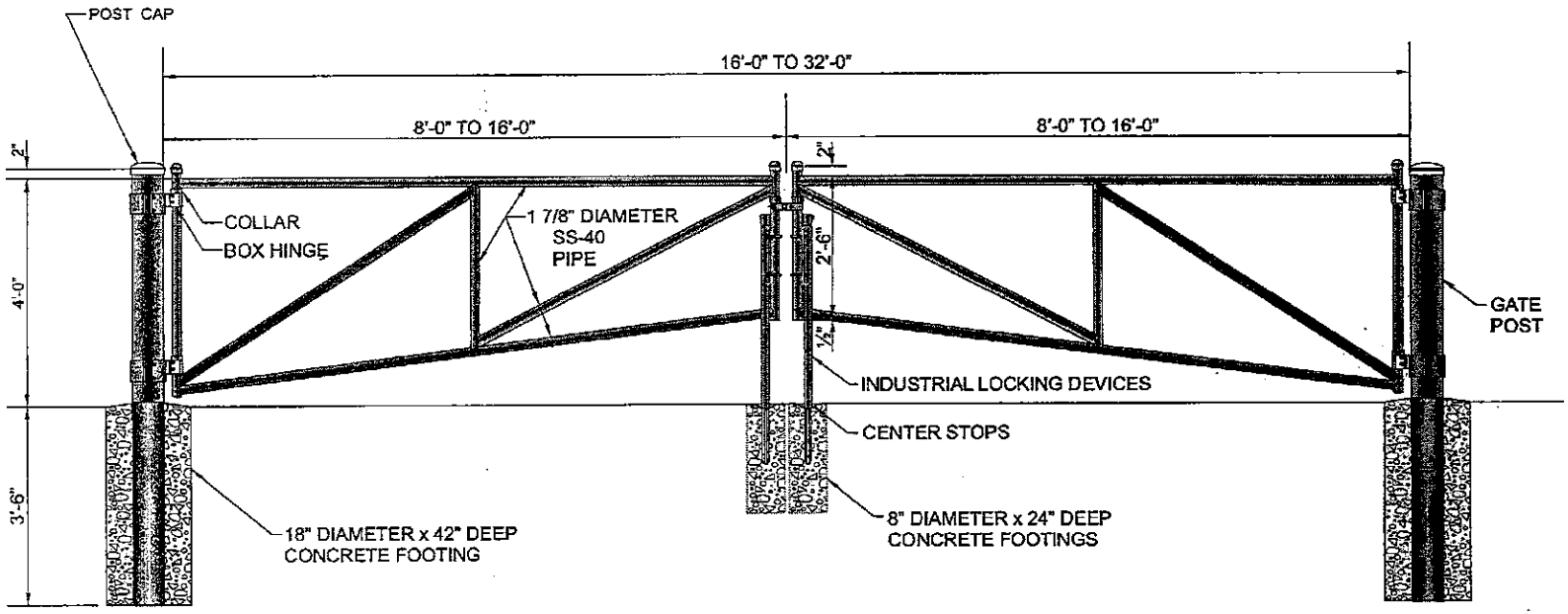
E. Method of Measurement.

1. The quantity to be paid for under this item shall be the linear feet of double barrier gates measured from the center line of the two 4" fence posts supporting the gates,

furnished and installed in final position complete and in a manner that will insure ease of operation of the gate, all in accordance with the Plans, the specifications and orders of the Engineer.

F. Basis of Payment.

1. The unit price bid per each double barrier gate shall include the cost of furnishing all labor, materials, concrete, tools, equipment, Shop Drawings and incidentals necessary to satisfactorily complete the required.



16'-0" TO 32'-0" x 4'-0" HIGH DOUBLE SWING BARRIER GATE

GATE POSTS FOR 16' TO 24':	6 5/8" O.D., 18.97 LBS PER LF - HOT DIPPED GALVANIZED SCHEDULE 40 STEEL PIPE SET IN 18" DIAMETER x 42" DEEP, 3,000 PSI CONCRETE FOOTINGS
GATE POSTS FOR 25' TO 32':	8 5/8" O.D., 28.55 LBS PER LF - HOT DIPPED GALVANIZED SCHEDULE 40 STEEL PIPE SET IN 24" DIAMETER x 42" DEEP, 3,000 PSI CONCRETE FOOTINGS
GATE FRAME & BRACES:	1 7/8" O.D., 2.28 LBS PER LF SS 40 GALVANIZED STEEL PIPE AS MANUFACTURED BY ALLIED TUBE AND CONDUIT
COLLAR:	2 3/8" O.D., 3.12 LBS PER LF SS 40 GALVANIZED STEEL PIPE AS MANUFACTURED BY ALLIED TUBE AND CONDUIT WELDED TO VERTICAL GATE FRAME AS A HINGE STOP
GATE POST CAP:	PRESSED STEEL HOT DIPPED GALVANIZED WITH 1.2 OZ. OF ZINC PER SF IN ACCORDANCE WITH ASTM F626

NOTES: 1) AN APPROVED LOCKING DEVICE SHALL BE PROVIDED FOR EACH GATE LEAF; AND
2) TWO ADDITIONAL FOOTINGS SHALL BE PROVIDED TO HOLD THE GATES IN THE OPEN POSITION.

SCALE: ½" = 1'-0"

DATE: 10/27/09

NASSAU COUNTY

Contract No. HB6302U

ITEM 106VC-CG - VINYL CLAD ALUMINUM FRAME CANTILEVER SLIDE GATES WITH VINYL CLAD CHAIN LINK FABRIC (6'-0" TO 8'-0" HIGH AND 16'-0" to 24'-0" WIDE)

A. Description.

1. Under this Item the Contractor shall furnish and install fully 6'-0" to 8'-0" High and 16'-0" to 24'-0" Wide Vinyl Clad Aluminum Frame Cantilever Slide Gates with Vinyl Clad Chain Link Fabric gates complete with all necessary accessories as specified herein and the labor and supervision for installing the gates in conjunction with the vinyl clad chain link fence all in accordance with the Plans, approved Detail Sheet.
2. The gates shall be located generally where shown on the Plans with the exact location to be determined by the Engineer.

B. Materials and Construction Details.

1. **Manufacturer**. All fence materials described herein shall be as manufactured by Master Halco, Inc. 4000 W. Metropolitan Drive, Suite 400 Orange, CA 92868, Phone (800) 229-5615 Fax (714) 385-0107, or approved equal.
2. **Gate Frames**. Fabricate chain link cantilever slide gates in accordance with ASTM F1184, Type II, Class 2, using 2" square aluminum members, ASTM B 221, alloy and temper 6063-T6, weighing 0.94 lbs/ft. Weld members together forming rigid one-piece frame integral with top track. These members shall be vinyl clad.
3. **Internal Uprights**. 2" x 2" aluminum members welded in gate frames, at 8'-0" on center subdividing frame into panels. These members shall be vinyl clad.
4. **Chain Link Fence Fabric**.
   a. Gate fabric shall conform to the requirements of the fabric used in the adjacent fence installation.
   b. Install fabric with galvanized bolts and tension bars at all 4 sides. Attach to gate frame at not more than 15" on center.
5. **Bracing**. Provide diagonal adjustable length truss rods, or 3/8 inch galvanized steel, in each panel of gate frames. These members shall be vinyl clad.
6. **Top Track/Rail**. Enclosed, combination one-piece track and rail, aluminum extrusion with weight of 3.72 lbs/ft. Track to withstand reaction load of 2,000 lbs.
7. **Truck Assembly**. Swivel type, zinc die cast, with four (4) sealed lubricant ballbearing rollers, 2" in diameter by 9/16" in width, and two (2) side rolling wheels to ensure truck alignment in track. Mount trucks on post brackets using 7/8" diameter ball bolts with ½" shank. Design truck assembly to withstand same reaction load as track. These members shall not be vinyl clad.
8. **Gate Hangers, Latches, Brackets, Guide Assemblies, And Stops**. Malleable iron or steel, galvanized after fabrication. Provide positive latch with provisions for padlocking. These members shall not be vinyl clad.
9. **Bottom Guide Wheel Assemblies**. Each assembly shall consist of two 4" diameter rubber wheels, straddling bottom horizontal gate rail, allowing

adjustment to maintain gate frame plumb and in proper alignment. Attach one assembly to each guide post. These members shall not be vinyl clad.

10. **Gate Post.** Galvanized steel 4" O.D. Schedule 40 pipe, ASTM F 1083, weighing 9.11 lbs/ft. Provide one (1) latch post and two (2) support posts for single slide gates and four (4) support post for double slide gates. The gate post shall be vinyl clad.

11. **Concrete Set Gate Post**. Drill holes in firm, undisturbed or compacted soil. Holes shall have a diameter of four times greater than outside dimension of post, and depths approximately 6" deeper than the post bottom. Excavate deeper as required for adequate support in soft and loose soils, and for post with heavy lateral loads. Set post bottom 42" below surface when in firm, undisturbed soil. Place concrete around post in a continuous pour, tamp for consolidation. Trowel finish around post and slope to direct water away from post. Check each post for vertical and top alignment, and maintain in position during placement and finishing operations.

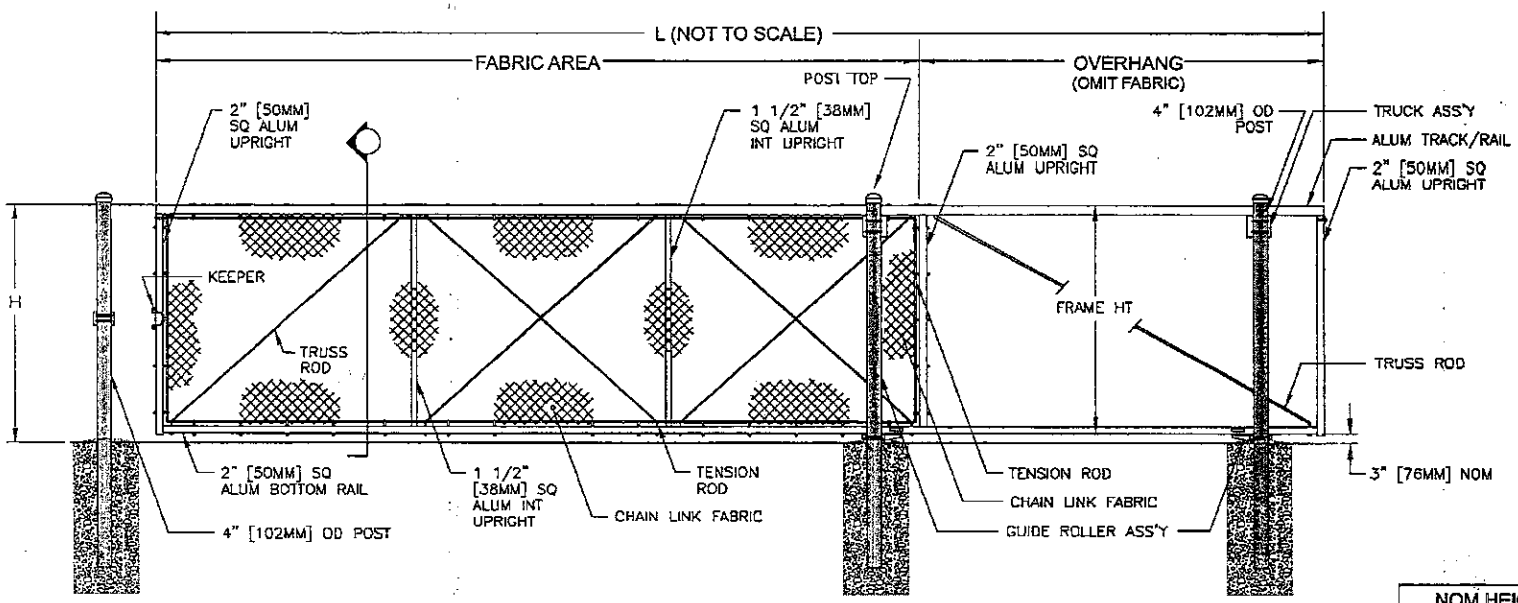
12. **Install Gate In Accordance With Manufacturers Instructions.**

C. Measurement and Payment.

1. The quantity to be paid for under this item shall be the total number of square feet of vinyl clad cantilever slide gates furnished and installed in accordance with these specifications.

2. The unit price bid per square foot shall include the cost of all labor, materials, tools, equipment, and other incidentals required to furnish and install vinyl clad cantilever slide gates, gate post, stops, locking devices, guide rollers truck assemblies, locks, concrete, shop drawings and miscellaneous materials required for a complete installation.

GATE PLAN



GATE ELEVATION - (3) BAYS SHOWN

SEE SHEET #2 FOR DETAILS & SECTIONS

NOM HEIGHT (H)
6'-0" [1829MM]
7'-0" [2134MM]
8'-0" [2438MM]

OPENING
16'-0" [4877MM] THROUGH 22'-0" [6706MM]

NOTES:
1. METRIC DIMENSIONS ARE NOMINAL EQUIVALENTS TO U.S. DIMENSIONS.
2. SPECIFICATIONS SHOWN CAN BE CHANGED BY MASTER-HALCO ONLY.
3. GATES MAY BE MANUALLY OR ELECTRICALLY OPERATED. HARDWARE WILL VARY FOR ELECTRICALLY OPERATED GATES.

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MIW Ornamental Picket

MONUMENTAL IRON WORKS

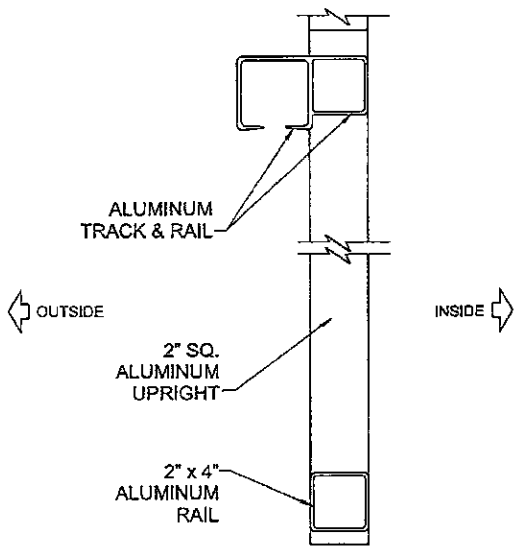
SINGLE CANTILEVERED SLIDING GATE

NASSAU COUNTY

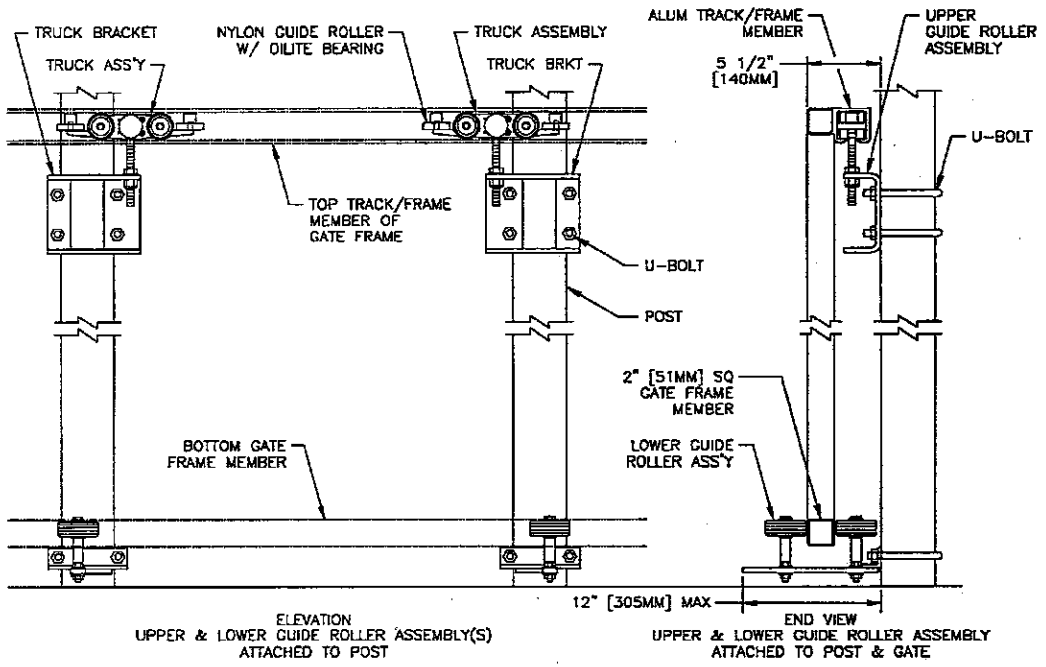
BY:	JRR	DWG:	6-8100
DATE:	08-18-95		
REV:	D	LAYER: 1	SHEET: 1
REV DATE:	05-10-00	SCALE:	3/8" = 1'-0"

Contract No. H683020

OPENING	LENGTH (L)	GATE POSTS (G)	BAYS	OVERHANG
I/S POST FACE TO I/S POST FACE	O/S DIM OF GATE LEAF	O/S POST FACE TO O/S POST FACE	NUMBER OF BAYS WITH PICKETS	NUMBER OF BAYS W/O PICKETS
16'-0" [4877MM]	26'-3" [8001MM]	10'-0" [3048MM]	(2) TWO	(1) ONE
17'-0" [5182MM]	27'-3" [8306MM]	10'-0" [3048MM]	(3) THREE	(1) ONE
18'-0" [5486MM]	28'-3" [8611MM]	10'-0" [3048MM]	(3) THREE	(1) ONE
19'-0" [5791MM]	29'-3" [8915MM]	10'-0" [3048MM]	(3) THREE	(1) ONE
20'-0" [6096MM]	30'-3" [9220MM]	10'-0" [3048MM]	(3) THREE	(1) ONE
21'-0" [6401MM]	31'-3" [9525MM]	10'-0" [3048MM]	(3) THREE	(1) ONE
22'-0" [6706MM]	32'-3" [9830MM]	10'-0" [3048MM]	(3) THREE	(1) ONE



SEC A - (16' THRU 22' OPENINGS)
SCALE: 3" = 1'-0"



ELEVATION
UPPER & LOWER GUIDE ROLLER ASSEMBLY(S) ATTACHED TO POST

END VIEW
UPPER & LOWER GUIDE ROLLER ASSEMBLY ATTACHED TO POST & GATE

SCALE: 1 ½" = 1'-0"

M I W Ornamental Picket

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MONUMENTAL IRON WORKS

SINGLE CANTILEVERED SLIDING GATE

NASSAU COUNTY

BY:	JRR	DWG:	6-8100
DATE:	08-18-95		
REV:	D	LAYER: 1	SHEET: 2
REV DATE:	05-10-00	SCALE:	VARIES

Contract No. H883020

ITEM 106VC-DG - VINYL CLAD CHAIN LINK DOUBLE GATES
ITEM 106VC-SG - VINYL CLAD CHAIN LINK SINGLE GATES

A. Description.

1. Under this Item the Contractor shall furnish and install fully vinyl clad galvanized steel chain link fence gates complete with all necessary accessories as specified herein and the labor and supervision for installing the gates in conjunction with the vinyl clad chain link fence all in accordance with the Plans or approved Detail Sheets.
2. The gates shall be located generally where shown on the Plans with the exact location to be determined by the Engineer.

B. Materials.

1. All posts, frames, braces, fittings and accessories shall conform to the requirements of Item 104VCA and shall be vinyl clad.
2. **Gate Posts**. The size of the gate post shall be the same size as that of corner posts for various heights as shown within the appropriate table in Item 104PA.
3. **Gate Frames**. Gate frames shall be 2 inch O.D. galvanized steel pipe. All corners shall be securely welded.
4. **Fabric**. The fabric on the gates shall be the same color and gauge as used for the fence. The fabric shall be stretched and fastened in the frame by means of tension bands and tension rods. Gate sections shall be properly braced using 15/8" O.D. galvanized steel pipe to prevent sagging.
5. **Gate Hinges**. Gate hinges of malleable iron shall be such as to permit the gates to swing inward through 180 degrees and back against the fence where gate stops (hold backs) shall be provided.
6. **Latching Devices.**
   a. **Single Swing Gates.** Single swing gates shall be provided with a lockable fork latch.
   b. **Double Swing Gates.** The latch for a double swing gate latches shall include a drop bar arranged to engage the center stop, which will insure that the gate can be positively secured in the closed position after a padlock has been properly affixed and shall be approved by the Engineer before installation. The Contractor shall furnish one padlock for each double gate for use during construction operations. Upon completion of the work, the County shall furnish and attach a #12 stainless steel chain, 9 inches long, to the gate for future attachment of a County padlock.
7. **Center Stops**. Center stops shall consist of channel type devices designed to be set in concrete and engage the drop rod of the latching device of double leaf gates. No stops are required for single leaf gates. Pipe center stops shall not be used.

8. **Keepers**. Keepers shall consist of a mechanical device for securing the free end of the gate when in the full open position.

C. Construction Details.

1. **Footings**.
   a. All gate posts shall be set plumb in concrete piers of the depths and sizes shown. The concrete shall be Item 17A, Class A concrete 1-2-4 mix, but payment shall be under this item. Piers shall be cast rough in the ground and pitched above grade to shed water.
   b. After the posts have been set in place and properly supported to hold them to line and grade, the remaining spaces shall be filled with grout consisting of one part cement and two parts sand, struck smooth. Excavation and backfilling for piers is included hereunder.
2. **Bottom Clearance**. The bottom of the gates shall clear the finished grade by approximately two (2") inches. The clearance under the gates in the closed position is not to exceed three (3") inches.
3. **Maintenance of Gates**. Where the vinyl cladding has been fractured or otherwise damaged and its effectiveness to prevent corrosion of the base metal nullified, the affected parts shall be replaced.

D. Shop Drawings and Testing.

1. Prior to ordering any gates, the Contractor shall submit to the Engineer for approval, shop drawings (three more than to be returned) of the proposed gate installation showing complete details of material sizes, shapes and heights, proposed methods of fastening and complete details of all hardware to be used.
2. The Contractor shall submit for testing any material or components deemed necessary by the Engineer. Any material ordered by the Contractor prior to obtaining approval and which shall later be found unsatisfactory on the basis of test results shall be replaced by him with satisfactory materials at no additional cost to the County.

E. Method of Measurement.

1. The quantity to be paid for under this Item or Items shall be the number of square feet of gate, furnished and installed in final position complete and in a manner that will insure ease of operation of the gates and locking devices, including chain link fence fabric on the gates and all in accordance with the Plans, the Specifications and orders of the Engineer

F. Basis of Payment.

1. The unit price bid per each square foot of gate shall include the cost of furnishing all labor, materials, tools, equipment and incidentals necessary to satisfactorily complete the required work including clearing and grubbing, excavation, fill, concrete, grading, and shop drawings.

ITEM 114TS - ADJUSTMENT OF TRAFFIC SIGNAL PULLBOXES

A. Description.

1. Under this Item the Contractor shall raise or lower the grade of the existing traffic signal pullboxes that are necessitated by a change in grade between the existing grade and the new street grade at the location(s) indicated on the Plans, as required by the Specifications, or as directed by the Engineer.

B. Materials and Methods.

1. The work under this part of this Item shall conform to the requirements of the Division of Traffic Engineering of the New York State Department of Transportation or Nassau County Traffic Engineering Department, whichever applies.
2. The Contractor shall obtain all required permits, releases and all other authorizations required from either New York State or Nassau County.

C. Method of Measurement.

1. The quantity to be paid for under this Item shall be the actual number of traffic signal pull boxes reset to the new grade.

D. Measurement of Payment.

1. The unit price bid for under this Item shall include the cost of all necessary excavation and backfill and the furnishing and installation of all materials necessary to set the traffic pull box castings to the new elevation.

ITEM 117T-6 - TEMPORARY FENCE - 6' HIGH
ITEM 117T-8 - TEMPORARY FENCE - 8' HIGH

A. Description.

1. Under these Items the Contractor shall furnish and install Six (6') Foot and/or Eight (8') Foot High Temporary Fence in accordance with the Plans, Specifications or directed by the Engineer.

B. Construction Details.

1. **Fabric.**
   a. All chain link fence fabric shall be 2" mesh, 9 gauge galvanized steel chain link fabric in accordance with ASTM F 668. Zinc coated steel wire shall have a minimum core wire break strength of 1,290 psi. Fabric selvages shall be knuckled top and bottom. The zinc coating shall be a minimum 1.20 oz. per square foot.
2. **Line Posts.**
   a. Line Posts shall be 2" diameter and manufactured to the following specifications:
      1) ***Class A, Schedule 40 Pipe.*** Posts shall be standard weight Schedule 40 Pipe, manufactured in accordance with ASTM F 1083.
      2) ***Class B, Steel Tubing.*** Posts shall be manufactured by one of the following methods with the steel conforming to ASTM A569M or ASTM A607 with a minimum yield strength of 50,000 psi:
         a) Furnace butt welded, continuous welded
         b) Cold rolled and electric resistance welded
         c) Seamless
   b. Line posts shall be set at maximum of 10'-0' on centers.
   c. Posts shall be driven a minimum of 24" into the ground.
   d. Post Ties: Post tie spacing shall be 14" on centers and within 6" from the top and bottom of the fabric as herein specified.
   e. Each Line Post shall be fitted with a properly fastened steel cap.
3. **Fittings.** All fittings shall be hot dipped galvanized in accordance with ASTM F 626.
4. An allowance of ten (10) linear feet will be added for each Terminal Post - end, corner, angle, pull and gate post and will be complete with knee bracing and all of the necessary hardware components.
5. Method – all provisions as per Item 117 shall apply.

C. Measurement and Payment.

1. The quantity to be paid for under these Items shall be the total number of linear feet of Six (6') Foot and/or Eight (8') Foot High Temporary Fence measured in final position furnished and installed.

2. The unit price bid per linear foot for these Items shall include the cost of all labor, tools, materials, equipment and other incidentals necessary to satisfactorily erect, maintain and remove the fence as directed by the Engineer.

ITEM 117TP-6 - TEMPORARY FENCE WITH PRIVACY SCREENING - 6' HIGH
ITEM 117TP-8 - TEMPORARY FENCE WITH PRIVACY SCREENING - 8' HIGH

A. Description.

1. Under these Items the Contractor shall furnish and install Six (6') Foot and/or Eight (8') Foot High Temporary Fence With Privacy Screening Fence in accordance with the Plans, Specifications or directed by the Engineer.

B. Construction Details.

1. **Fabric.**
   a. All chain link fence fabric shall be 2" mesh, 9 gauge galvanized steel chain link fabric in accordance with ASTM F 668. Zinc coated steel wire shall have a minimum core wire break strength of 1,290 psi. Fabric selvages shall be knuckled top and bottom. The zinc coating shall be a minimum 1.20 oz. per square foot.
2. **Line Posts.**
   a. Line Posts shall be 2 ½" diameter and manufactured to the following specifications:
      1) ***Class A, Schedule 40 Pipe.*** Posts shall be standard weight Schedule 40 Pipe, manufactured in accordance with ASTM F 1083.
      2) ***Class B, Steel Tubing.*** Posts shall be manufactured by one of the following methods with the steel conforming to ASTM A569M or ASTM A607 with a minimum yield strength of 50,000 psi:
         a) Furnace butt welded, continuous welded
         b) Cold rolled and electric resistance welded
         c) Seamless
   b. Line posts shall be set at maximum of 8'-0' on centers.
   c. Posts shall be driven a minimum of 36" into the ground.
   d. Post Ties: Post tie spacing shall be 14" on centers and within 6" from the top and bottom of the fabric as herein specified.
   e. Each Line Post shall be fitted with a properly fastened steel cap.
3. **Fittings.**
   a. All fittings shall be hot dipped galvanized in accordance with ASTM F 626.
4. **Privacy Screen.**
   a. Material.
      1) Fiber Content: 100% high density polyethylene
      2) Construction: 85-90% knit Raschel weighing 3.8 lbs. per 100 sf
      3) Colors: black or green
   b. Fasten tie-raps at 12" on centers along entire perimeter of fabric roll.
5. An allowance of ten (10) linear feet will be added for each Terminal Post- end, corner, angle, pull and gate post and will be complete with knee bracing and all of the necessary hardware components.

6. Method – All provisions for Item 117 shall apply.

C. Measurement and Payment.

1. The quantity to be paid for under these Items shall be the total number of linear feet of Six (6') Foot and/or Eight (8') Foot High Temporary Fence With Privacy Screening measured in final position furnished and installed in accordance with the Plans, Specifications or directed by the Engineer.
2. The unit price bid per linear foot for these Items shall include the cost of all labor, tools, materials, equipment and other incidentals necessary to satisfactorily erect, maintain and remove the fence as directed by the Engineer.

ITEM 136S - SURVEY STAKEOUT

A. Description.

1. Under this Item the Contractor shall do all necessary surveying required to construct all elements of the Project as shown on the Plans and Specifications and as ordered by the Engineer. This shall include, but shall not be limited to, stakeout, layout and elevations for the highway, structures and forms as shown and required, consistent with the current practices of the County and shall be performed by competently qualified personnel acceptable to the Commissioner of Public Works.

B. Materials.

1. All instruments, equipment, stakes and any other material necessary to perform the work satisfactorily, shall be provided by the Contractor. All stakes used shall be of a type approved by the Engineer. It shall be the Contractor's responsibility to maintain these stakes in their proper position and location at all times.

C. Construction Details.

1. The Contractor shall trim trees, brush and other interfering objects, not inconsistent with the Plans, from survey lines in advance of all survey work to permit accurate and unimpeded work by the Contractor's stakeout survey crews and the County's cross-section survey crews.
2. The exact position of all work shall be established from control points, baseline transit points or other points of similar nature which are shown on the Plans and/or modified by the Engineer. Any error, apparent discrepancy or absence in or of data shown or required for accurately accomplishing the stakeout survey shall be referred to the Engineer for interpretation or furnishing when such is observed or required.
3. The Contractor shall place two offset stakes or references at each centerline or theoretical grade line control point (PC, PT, and/or Angle Point), henceforth called centerline, and at such intermediate locations as the Engineer may direct. From computations and measurements made by the Contractor, these stakes shall be clearly and legibly marked with the correct centerline station and offset distance so as to permit the establishment of the exact centerline location during construction. If markings become faded or blurred for any reason, the markings shall be restored by the Contractor and at the request of the Engineer.
4. The Contractor shall locate and place all cut, fill, slope, fine grade or other stakes and points, as the Engineer may direct for the proper progress of the work. All control points shall be properly guarded and flagged for easy identification.
5. Drainage structures shall be staked out by the Contractor at the locations and elevations shown on the Plans or specified by the Engineer. All required Rights-of-Way and easement limits shall be established, staked and referenced by the Contractor concurrent with the construction stakeout survey. Rights-of-Way and easement limits shall be staked by or under the direction of a Licensed Land Surveyor or exempt Professional Engineer approved by the Commissioner of Public Works. The Contractor shall supply proof to the Engineer that such work is being

performed by or supervised by a Licensed Land Surveyor or exempt Professional Engineer.

6. The Contractor shall be responsible for the accuracy of the work of this Item and shall maintain all reference points, stakes, etc. throughout the life of the contract. Damaged or destroyed points, bench marks or stakes, or any reference points made inaccessible by the progress of the construction shall be replaced or transferred by the Contractor. Any of the above points that may be destroyed or damaged shall be transferred by the Contractor before such damage or destruction occurs. All control points shall be referenced by ties to acceptable objects and recorded. Any alterations or revisions in the ties shall be so noted and the information furnished to the Engineer immediately. All stakeout survey work shall be referenced to the centerline shown on the Plans.
7. All computations necessary to establish the exact position of the work from control points, shall be made and preserved by the Contractor. All computations, survey notes and other records necessary to accomplish the work shall be neatly made. Such computations, survey notes and other records shall be made available to the Engineer upon request and shall become the property of the County and delivered to the Engineer not later than the date of acceptance of the contract.
8. The Engineer may check all or any portion of the stakeout survey work or notes made by the Contractor. Any necessary correction to the work shall be made immediately by the Contractor at no cost to the County. Such checking by the Engineer shall not relieve the Contractor of any responsibilities for the accuracy or completeness of his work.
9. The Contractor will not be permitted to take preconstruction and/or final cross-sections to be used for payment purposes.
10. During the progress of the construction work, the Contractor will be required to furnish all of the surveying and stakeout incidental to the proper location by line and grade for each phase of the work. For paving and any other operation requiring extreme accuracy, the Contractor will re-stake with pins or other acceptable hubs located directly adjacent to the work at a spacing directed by the Engineer. Fills required to pave intermediate courses of asphalt shall be painted on the existing pavement, all dimensions referring to finished grade.
11. Any existing stakes, iron pins, survey monuments or other markers defining current or existing property lines that may be disturbed during construction shall be properly tied into fixed reference points before being disturbed and accurately reset in their proper position upon completion of the work.
12. Upon the completion of construction, after all possibility of disturbance is past, the Contractor shall reestablish, layout and retie the centerline control points with a minimum of four ties per control point, as permanently as possible with drill holes and wings in concrete curbs and sidewalks and PK nails in asphalt pavement to the satisfaction of the Engineer. The contractor shall supply a drawing of each of the above noted control points, including, but not limited to: Station, type of point (PK nail, drill hole excreta), coordinates in the same system used by the County on the

project plans, and 4 ties, with the distance measured and recorded to 0.01, to the described tie points. Survey notes signed and stamped by a New York State Licensed Land Surveyor showing the station and description of the control points, and the location and description of the ties shall be furnished to the Engineer, in a drawing size to be agreed to before final submittal.

D. Method of Measurement and Basis of Payment.

1. The price bid for this item will be made on a daily (8hrs/day) basis and shall include the cost of furnishing all labor, equipment, instruments, materials and other incidentals necessary to satisfactorily complete the required project including, but not limited to, surveying, stakeout and retie of the control points. Daily unit price rate shall be prorated for less than 8 hrs of survey work in a day, as determined by the Engineer.

ITEM 150 - BOX BEAM GUIDE RAILING
ITEM 151 - BOX BEAM MEDIAN BARRIER

A. Description.

1. Under this item, the Contractor shall furnish and install galvanized steel box beam guide railing and median barrier in accordance with the plans, specifications and as ordered by the Engineer.

B. Materials.

1. **Rails.**
   a. Rails shall be cold-formed welded and seamless structural tubing. Posts shall be American Standard Beam Section. The posts, splice tongues and plates shall conform to ASTM A36, Structural Steel. The rails shall conform to ASTM A500, Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes, Grade B, except as modified below.
   b. All rail shall be tested in accordance with ASTM E436 ¬Standard Method for Drop-weight tear tests of Ferritic steels; except as modified below.
   c. The tests shall be done after all galvanizing and associated operations have been performed on the rail. The testing shall be conducted at a temperature of -18 Degrees C. without removing the galvanizing, on 2" X 9" specimens supported to achieve a 7" span.
   d. The percent shear area will be determined by testing nine (9) specimens, three (3) from each of three (3) sides not containing a weld. The shear areas of the three specimens from the side with the lowest average shear area shall be disregarded and the final average based on the remaining six specimens. If the average percent shear area falls below 50, the material represented by these tests shall be rejected.
   e. To facilitate acceptance and rejection of material the manufacturer of the structural shape shall, before galvanizing, identify the product with the steel heat number, or some number which is traceable to the heat number, and his own unique identification code. The identification method shall be such that it can be read after the structural shape is galvanized. The identification information shall be placed on the structural shape at intervals not to exceed four feet.
   f. No mill transverse welds will be permitted on the rail sections. Longitudinal welds shall be made by the resistance, gas shielded arc, submerged arc or plasma arc welded process; shall be sound, free from defects, and shall not be repaired. The welded joint, in cold-formed welded rail, shall have a minimum tensile strength specified for the railing when tested according to the tensile strap test of test of ASTM Method E8. Fabrication welding shall comply with the requirements set forth under "welding" in the N.Y.S. Steel Construction Manual.
   g. Rails shall be galvanized in accordance with 719-01 of the N.Y.S. Specifications Type I, Galvanized Coatings and Repair Methods. Slots and round holes may be Subsequently drilled, punched, burned, or cut and regalvanized according to the paragraph below on "Regalvanizing Iron and Steel Using a Flame Sprayed Coating System". This repair procedure shall also apply to curved rail sections and splice plates as required.

h. Regalvanizing Iron and Steel Using a Flame Sprayed Coated System
   1) Those areas to be sand blasted shall be blasted with silica sand or crushed garnet of such gradation that sand shall be mesh size 20 to 40 with a minimum of 40% retained on a 30 mesh screen (U.S. Standard Sieve series). Pressure of not less than 75 psi shall be maintained at the blast generator.
   2) A sample steel plate shall be blasted until the surface cannot be further cleaned or roughened. This plate shall be used for visual comparison and any areas that do not meet this standard as to roughness or cleanliness shall be reblasted.
   3) The wire used in spraying shall be 15 ga. 1/8" or 3/16" diameter, zinc 99.0% purity. Air pressure at the Air Control Unit shall be 60 psi and there shall be no more than 35 feet of 3/8" I.D. hose between the Air Control Unit and the gun.
   4) The metal coating shall be applied at a minimum thickness of .0045". At least one coating shall be applied within 4 hours of blasting and the surface must be completely coated within 8 hours of blasting.
   5) The specified thickness of coating shall be applied in multiple layers and in no case shall less than two passes be made over every part of the surface.

2. **Posts.**
   a. The posts, splice tongues, plates and all hardware shall be fabricated and ready for assembly before galvanizing. The posts, splice tongues and plates shall be galvanized in accordance with 719-01, of the N.Y.S. Specifications, Type I, Galvanized Coatings and Repair Methods. Hardware shall be galvanized in accordance with 719-01 of the N.Y.S. Specifications Type II, Galvanized Coatings and Repair Methods.

3. **Bolts.**
   a. Bolts and nuts shall conform to ANSI B 18.2.1 and B 18.2.2, and washers shall conform to ANSI B 18.22.1.

C. Construction Details.

1. Posts and rails shall be erected in the position and manner indicated on the plans as ordered by the Engineer.
   a. Rail sections shall be at least 18'-0" in length, and rail splices shall be a minimum of 18" from the centerline of any beam slot.
   b. Necessary precautions shall be taken by the Contractor that all utilities and structures are safeguarded against damage. Damage incurred shall be satisfactorily repaired by the Contractor at no expense to the County.
   c. Box-beam barrier shall be continuous at all entrance walks. Where a post location fails within the limits of a concrete walk, the concrete shall be neatly removed as directed by the Engineer and legally disposed of. The area shall then be restored to conform to the adjoining area.
   d. Unpaved Shoulders - Posts shall be driven in all cases where driving is feasible. The driving shall be accomplished with approved methods and equipment that will leave the posts in their final position, free of any distortion, burring or any other damage.

D. Method of Measurement.

1. The quantity of guide railing or median barrier measured for payment will be the number linear feet measured along the axis of the railing and between its extreme outer limits as shown on the plans and/or Standard Sheets or as directed by the Engineer. If shop curved guide railing or median barrier is specifically called for in the Contract Plans and Proposal, the quantity of guide railing or median barrier shall be the number of linear feet measured along the axis of the curved railing between the point of beginning of curvature and the point of ending of curvature as defined by the Engineer. If the railing is anchored to a structure instead of an anchorage unit or end assembly unit, the railing will be measured up to the structure.

    a. Where curved guide railing or median barrier is specifically called for on the Contract Plans or ordered in writing by the Engineer and no provision for such curved beam railing is included in the contract proposal, the quantity of railing measured for payment will be as described above plus an additional allowance of 33 1/3% of the curved lengths at a factor of 1.0 measured along the horizontal centerline of the beam. Curved beam guide railing or median barrier is defined as that which will require shop working to attain the required curvature and not that curvature which may be attained by springing or bending in the field.

E. Basis of Payment.

1. The unit price bid per linear foot for the above work shall include the cost of all labor, equipment and material necessary to complete the work, including all costs necessary to attain the required curvature
2. Payment for guide rail and median barrier shall include the unit price bid and the measured quantity multiplied by the payment factor for the various typical post spacings listed in Table I.
3. When posts are driven through Asphalt Concrete or Bituminous treated material, any repairs to damaged paved or treated areas shall be at the Contractor's expense.
4. Progress payments will be made when the metal railing and/or metal barrier is erected in the position and manner indicated on the Standard Sheets and in a manner approved by the Engineer, exclusive of bituminous repair and final alignment. Payment will be made, at the unit price bid, for 90% of the quantity erected. The balance of the quantity erected will be paid for upon proper repair to the bituminous surfaces and alignment of the metal railing and/or metal barrier to the specified tolerances.

ITEM 152 - BOX BEAM GUIDE RAIL END ASSEMBLY
ITEM 153 - BOX BEAM MEDIAN BARRIER END ASSEMBLY-TYPE A OR B

A. Description.

1. Under this item, the Contractor shall furnish and place galvanized steel box beam guide rail and median barrier end assemblies in accordance with the Plans, Specifications, the Standard Sheet and as ordered by the Engineer.

B. Materials.

1. All material shall conform to the material requirements of Item 150 and shall consist of the box beam, accessory hardware, complete deadman in place, the necessary excavation and backfill, all as detailed on the Plans and/or Standard Sheet.

C. Construction Details

1. End assemblies shall be installed as shown on the Plans and/or the Standard Sheet and as ordered by the Engineer.

D. Method of Measurement.

1. The quantity of end assembly units to be paid for will be the actual number of units installed in accordance with the Plans, Standard.
2. Sheet and/or as directed by the Engineer.

E. Basis of Payment.

1. The unit price bid for each end assembly unit shall include the cost of furnishing all labor, materials and equipment necessary to complete the work including the necessary concrete, excavation and backfill.

ITEM 185N - NEW SPRINKLER SYSTEM

A. Description.

1. Under this Item the Contractor shall furnish and install new underground sprinkler systems in accordance with the Specifications, as shown on the Plans or as directed by the Engineer.

B. Materials.

1. Pipe and Pipe Fittings.
   a. Main Line and Lateral Pipe. Provide Schedule 40 PVC pipe complying with ASTM D 1785 for Schedule 40 pipe and ASTM D 1784 for PVC compounds in 20-foot lengths, free of holes, foreign material, blisters, wrinkles or dents.
   b. PVC Fittings. Schedule 40 PVC socket fitting, Type 1, Cell Classification 12454-B, complying with ASTM D 2466, D 2467, and D 1784.
   c. Threaded Nipples: Schedule 80 PVC pipe.
   d. Risers. Schedule 40 galvanized steel pipe, unless otherwise indicated.
   e. Cleaner, Primer, and Solvent Cements.
      1) Cleaner. Uni-Weld 7300 cleaner or approved substitute.
      2) Primer. Uni-Weld 8700 Hi-Etch purple primer, ASTM F656, or an approved substitute.
      3) Solvent Cements. Uni-Weld 2200 clear, light viscosity type, for lateral lines, Uni-Weld 1700 gray, heavy duty viscosity type, for lateral lines larger than 2-1/2" diameter, and Uni-Weld 6700 for clear, light viscosity type for Flex/PVC connections or approved substitute.
   f. Sealing Tapes and Pastes.
      1) Threaded Connections between PVC and Metal Pipe: Rectorseal No. 100 virgin heavy duty sealing paste, Plastojoint Stick as manufactured by Lake Chemical Company, or Teflon tape.
      2) Metal to Metal Connection: Rectorseal No. 5 slow dry, soft set pipe thread compound.
      3) PVC to PVC Connections: Teflon tape.
      4) Plastic Irrigation Head or Plastic Valve to Pipe Connections: Teflon tape.
   g. Pipe Lubricant. As provided by pipe manufacturer for "O" ring gasket and pipe spigot ends. If not provided, use I.P.S. Weld-On No. 787 gasket lubricant as manufactured by Industrial Polychemical Service.
   h. Flexible Nipples. COBRA CONNECTOR, U.S. Patent #5,039,011 & 5,221,114, with 1/2" Nominal I.P.S. heavy wall flexible hose, as manufactured by F. P. Parker Manufacturing Co. Inc., 230-A Coney Island Dr., Sparks, Nevada, 89431, (702) 358-7900 or (510) 657-1641, Fax (800) 372-6272, or approved substitute. Material is available from Neumark Inc., Albuquerque, New Mexico.
   i. Sleeves. Schedule 40 PVC when under Contractor installed or removed and replaced pavement, Schedule 40 steel for sleeves under existing pavement to remain.

2. Valve Boxes. Provide and install standard green colored valve boxes with covers as manufactured by Carson or approved equal. Valve boxes shall be sized to allow room for testing, manual operation, calibration, removal and maintenance of equipment.
3. Automatic Zone Valves.
    1) Provide valves with a manual bleed screw on the bonnet and bleed ports protected with built-in filter. Provide valve which may be installed at any angle and has a flow control and manual shutoff.
    2) Material: Noncorrosive.
    3) Operation: Open and close smoothly with low pressure loss.
    4) Solenoid: 24 volts A.C. 60 Hz, energy consumption not exceeding 6 watts.
    5) Identification: Clearly tag with legible permanent brass waterproof label indicating the controller zone number.
4. Manual Valves. Brass angle valves with brass cross handles.
5. Controllers. Provide and install Mini-Clik Freeze Sensor, Model 401 as manufactured by Glen-Hilton Products Inc., P.O. Box 31614, Richmond, Virginia 23294, (804)264-0055
6. Wire.
    a. UL approved for direct burial, type UF, rated for 600 volts, PVC insulated.
    b. Minimum Wire Size: No. 16 AWG.
    c. Common Wire: Plastic coated, white color.
    d. Control Wire: Insulated, single-strand copper designed for 24 to 50 volts, plastic coated, red color or copper strand meeting or exceeding ASTM B3.
7. Wire Splicing Materials. Provide watertight splices using Spears #300 connectors and #100 glue, 3M brand, DBY connectors, or approved substitute.
8. Provide and install tap and backflow preventer in accordance with the requirements of the local water authority having jurisdiction.
9. Pop-Up Spray Heads. Provide Rain Bird Sprinkler Mfg. Corp. or approved substitute. Fixed pattern, with screw-type flow adjustment, stainless steel retraction spring, and PRS module, if required. Include a serviceable screen on the spray heads to prevent foreign materials from entering the sprinkler. Set flow adjustment to ensure even coverage and to avoid overspray.
10. Automatic Drain Valves. Provide King Technology, Inc. automatic drain valve or approved substitute. Corrosion resistant PVC plastic with 1/2 inch male pipe threaded connections. The valve shall open when pressure in the line decreases to 9 psi and seal again when pressure increases to 10 psi. Provide a screen on both inlet and outlet. Install automatic valves only on laterals of average pipe size 1 1/2 inch or less. Install at low points and at 100 feet on center in the laterals.
11. Pressure Regulator

C. Construction Requirements.

1. Provide a diagrammatic drawing, which is indicative of the work to be installed.
2. Utilities. Verify the locations and sizes of stubouts for water sources indicated on drawings as the source of water supply to the underground irrigation system.

Prior to excavation, determine the locations of all newly constructed and existing cables, conduits, sewers, water lines, and other underground utilities. Do not damage or disturb underground utilities.

3. Trenching. Excavate straight and true with bottom uniformly sloped to low points.
4. Minimum Cover. Provide following minimum cover over top of installed piping:
   a. Main Lines: 18" minimum.
   b. Lateral Lines: 12" minimum.
   c. Piping under pavement: 24" minimum
   d. Sleeves: 18" minimum
5. Backfill. Backfill with clean material from excavation. Remove organic material as well as rocks and debris larger than 1" diameter. Place acceptable backfill material in 6" lifts, compacting each lift and flush with water to settle trench except under pavement.
6. Staking. Stake all trench, sprinkler head and valve locations.
7. Sleeved Crossings: Sleeve pipe and wiring under sidewalks, roadways, parking lots, or through walls. Provide sleeves a minimum of one inch in diameter greater than the pipe or wire bundle to be sleeved.
8. Existing Lawns. Where trenching is required across existing lawns, uniformly cut strips of sod 6 inches wider than trench. Remove sod in rolls of suitable size for handling and keep moistened until replanted.
9. Irrigation Line Slope. The minimum pitch of irrigation lines to automatic drain valves shall be 3 inches in 100 feet.

D. Installation.

1. General. Install material and equipment in accordance with manufacturer's recommendations, Uniform Plumbing Code and ASTM 2774. Install the work to avoid conflicts between underground irrigation installation, existing utilities, planting and other existing features.
2. Pipe.
   a. Provide connections between plastic pipe and metal valves or steel pipe with screw fitting, using plastic male adapters with the specified pipe sealant applied to male threads. Connect screwed connections with light wrench pressure. Do not screw steel pipe into plastic fittings except at head risers.
   b. Apply cleaner and solvent in accordance with ASTM D 2855
   c. Rest the full length of each pipe section solidly on the pipe bed with recesses excavated to accommodate bells and joints.
   d. Thoroughly clean the interior of pipe and remove rocks, gravel, soil, and other objects prior to assembly. At the end of a work period, cap open ends on installed pipe to keep out foreign matter.
   e. Provide 4 inches minimum horizontal clearance between lines in the same trench.
   f. Sterilize piping up to backflow preventer.
   g. Provide for expansion/contraction of piping in accordance with manufacturer's recommendations.

3. Controllers. Install controllers as required. Make power connections. Mount and wire the controllers in accordance with manufacturer's approved procedures. Install freeze sensor in accordance with manufacturer's recommendations.
4. Sprinkler Heads. Install sprinkler heads at grade unless otherwise indicated. Install sprinkler heads with a minimum of 4 inches and a maximum of 6 inches clearance from curbs, walks, driveways, etc. and a minimum of 12 inches and a maximum of 18 inches from buildings and walls. Install heads in vertical position, hand backfilled and compacted to near original density.
5. Valves and Valve Boxes. Cover automatic and manual control valves with valve boxes and set top of boxes at grade. Install automatic valves according to manufacturer's recommendations and as shown. Set Pressure Regulating Module to 45 PSI or as directed by Engineer. Wire each valve to a separate station on the controller. Clearly tag each valve with a legible, permanent, waterproof tag indicating the controller zone number
    a. Control Wiring. Install control wires in same trenches as irrigation main lines and laterals whenever practical. Snake wires in the trench to allow for displacement of the wire during backfilling. Securely tape wires running in the same trench together at 10-foot intervals. Place wiring bundles to one side of piping (east of north/south lines and north of east/west lines) at a maximum of 3 inches from piping. If wiring is not in the same trench as piping or is under paving, install in Schedule 40 PVC piping and provide 18 inches minimum cover.
    b. Splices. Minimize wire splices. Where splices are required, use common splice boxes located in valve boxes. Provide a slack-wire loop at each valve with enough slack so that wire splices can be extended 24 inches above ground level to facilitate testing and trouble shooting.
    c. Codes and Other Electrical Information. Install 115 volt AC wiring in accordance with requirements of the National Electrical Code and the manufacturer's electrical specifications. Provide electrical service to controllers consisting of one black and one white wire in rigid conduit. Connect electrically-operated devices and metal enclosures to ground, in accordance with manufacturer's recommendations.
    d. Automatic Drain Valves. Install automatic drain valves on lateral lines only, at low points, 100 foot o.c.; install one cubic foot of gravel, with filter fabric completely surrounding gravel at each drain valve. Install automatic drain valves 3 inches below top of gravel. Install a 2-inch diameter Class 200 PVC pipe vertically above drain valve. Do not connect to pipe. Install with slip cap (not solvent welded), with 1/2-inch diameter hole. Install top of pipe flush with gravel.
    e. Backflow Preventer: Install as detailed and in conformance with the Uniform Plumbing Code.
    f. Thrust Block. On lines over 2 inches in diameter, install concrete thrust blocks at tees, bends, and pipe ends.

E. Field Quality Control.

1. Hydrostatic Test. Test water piping and valves, before backfilling trenches, to a hydrostatic pressure of not less than 100 psi and/or as directed by the Engineer. Piping may be tested in sections to expedite work. Remove and repair piping, connections, valves which do not pass hydrostatic testing.
2. Operational Testing. Perform operational testing after hydrostatic testing is completed, backfill is in place, and sprinkler heads adjusted to final position.
   a. Demonstrate to the Engineer that system meets coverage requirements and that automatic controls function properly.
   b. Coverage requirements are based on operation of one circuit at a time.

F. Method of Measurement.

1. The quantity to be paid for under this Item shall be the actual number of linear feet of piping furnished and installed in the new underground sprinkler system in accordance with the Specifications, as shown on the Plans or as directed by the Engineer and approved after satisfactory testing.

G. Basis of Payment.

1. The unit price bid for this Item shall include all labor, materials, tools, equipment and incidentals, including excavation, fine grading, backfill, testing and other necessary work required to satisfactorily complete the new underground sprinkler system.

ITEM 200 - HEAVY POST, PLASTIC AND SYNTHETIC BLOCKED OUT GALVANIZED CORRUGATED STEEL BEAM GUIDE RAILING

ITEM 201 - HEAVY POST, PLASTIC AND SYNTHETIC BLOCKED OUT GALVANIZED CORRUGATED STEEL BEAM MEDIAN BARRIER

A. Description.

1. Under this Item the Contract shall furnish and install heavy steel post, plastic and synthetic blocked out galvanized steel beam guide railing or median barrier as shown on the Plans in accordance with the Specifications and/or ordered by the Engineer.

B. Construction Details.

1. General. Posts and railing shall be erected in the position and manner indicated on the Plans and NYSDOT Standard Sheets and in a manner approved by the Engineer.
2. Posts shall be driven unless otherwise specified by the Engineer. The driving shall be accomplished with approved equipment and methods that will leave the posts in their final position, free of any distortion, burring or other damage.
3. When posts are driven through asphalt concrete or a bituminous treated material, the Contractor shall take care to prevent damage to the paved or treated areas. Large holes and voids caused by driving the posts shall be filled and compacted with a bituminous treated material or asphalt concrete similar to that damaged. The small area adjacent to the post disturbed during installation or where gaps exist at the post after pavement repairs shall be sealed with a bituminous material approved by the Engineer, at no cost to the County.

C. Materials.

1. Beams, Posts, Sections and Accessory Hardware.
   a. Beams and terminal sections shall be fabricated as shown on the plans. When beams and terminal sections are galvanized by the hot-dip method in accordance with ASTM A123, they shall be blanked to the proper shape, fabricated and ready for assembly before galvanizing. No punching, drilling, cutting or welding will be permitted after galvanizing. Bolt holes in the beam at the post bolt and elsewhere as necessary shall be enlarged or slotted to permit expansion and contraction and to facilitate erection. The beams shall be straight unless otherwise required by the plans or specifications and of uniform section. The edges shall be rolled to eliminate sharp edges.
   b. Beams and terminal sections shall be made from 12 gauge or heavier sheet. Beams, terminal sections, SL and SH posts shall be rolled from new billet open hearth, electric furnace or basic oxygen steel. All connections or splices shall be made with flat, round-headed galvanized bolts and galvanized nuts conforming to ASTM Designation A307 and as shown on the plans.

c. Strength. The minimum yield point and elongation of steel used in the manufacture of beam and terminal sections shall be 50,000 psi and 12% in 2" gage length respectively.

d. Galvanizing.

e. Beams and terminal sections shall be galvanized in accordance with ASTM A 123. Bolts, nuts and washers shall be galvanized in accordance with ASTM A 153.

1) As an alternative to ASTM123 galvanizing beam guide rail and terminal sections may be galvanized by a process or system of continuous galvanizing substantially in conformance with ASTM A525 except the minimum check limits for the weight of coating as determined by the triple post and single spot tests shall be 4.0 and 3.0 ounces per square foot respectively (total amount both sides of sheet).

2) All the requirements for beam and terminal sections as stated herein shall apply to this continuous galvanizing method except sampling, shop inspection and test procedures shall be as directed by the Laboratory.

2. The posts shall be as detailed on the Standard Structure Sheet for guide railing.

a. SL Posts shall conform to ASTM A 245, Grade C.

b. SH Posts shall conform to ASTM A36.

c. WF and I Beam Posts shall conform to ASTM A36

d. The above posts shall be galvanized in accordance with ASTM A 123.

e. No posts shall be installed without the prior approval of the Chief Engineer.

3. Hardware. All post connection bolts shall be in conformance with ASTM A 307 and details shown on the plans and shall be galvanized in accordance with ASTM A 153.

4. Plastic and Synthetic Block-Outs. The plastic and synthetic material block-outs are used to provide a uniform offset distance from the corrugated beam rail to the heavy post. The block-out shall have the same general dimensions as detailed in the Department Standard Sheets. The block-out shall not contain excessive voids that would compromise its physical strength. The material shall be designated for outdoor exposure and shall include chemical additives to resist UV degradation. If the product contains recycled materials, they shall be environmentally friendly and non-hazardous. Blocks shall contain no materials that will negatively affect their field performance, such as materials that absorb moisture.

5. Certification. When shop inspection is not provided, each shipment of guide rail to a project site shall be accompanied by a certificate of chemical analysis and physical tests for the heat of base metal used in fabricating beams, SL and SH posts and terminal sections as well as a certificate of compliance with the galvanizing requirements of this specification.

D. Method of Measurement.

1. The quantity of heavy steel post, plastic and synthetic blocked out galvanized steel beam guide railing to be paid for under this Item shall be the number of linear feet center to center of end posts furnished and installed in accordance with these specifications, the plans and the orders of the Engineer.
2. An allowance of 4 linear feet will be paid for each end terminal section.
3. Where curved beam type guide railing is specifically called for on the plans or ordered in writing by the Engineer and no special item for such curved beam type guide railing is included in the contract proposal, the quantity of guide railing to be paid for will be as described above plus an additional allowance of 33-1/3% of the curved lengths measured along the horizontal center line of "valley" of the beam. Curved Beam Type Guide Railing is defined as that which will require shop working to attain the required curvature. Railing curved by springing in the field is not to be considered as Curved Beam Type Guide Railing.

E. Basis of Payment.

1. The unit price bid per linear foot shall include the cost of all labor, equipment and material necessary to complete the work, including all costs to attain the required curvature. Payment for guide rail shall include the unit price bid and the measured quantity multiplied by the payment factor for various typical post spacing and lengths listed below.

PAYMENT FACTORS FOR POST SPACING

Post Spacing	Post Length	Payment Factor
6'-3"	5'-6"	1.0
6'-3"	7'-0"	1.3
3'-1 1/2"	5'-6"	1.8
3'-1 1/2"	7'-0"	2.3
1'-6"	7'-0"	3.3

5. BASIS OF PAYMENT. The unit price bid per linear foot shall include the cost of all labor, equipment and material necessary to properly complete the work including the inspection and testing information specified as well as excavating and backfilling, as necessary to satisfactorily complete the work.

ITEM 202 - ANCHORAGE UNITS FOR HEAVY POST BLOCKED OUT CORRUGATED BEAM GUIDE RAILING FOR DRIVEWAYS
ITEM 203 - ANCHORAGE UNITS FOR HEAVY POST BLOCKED OUT CORRUGATED BEAM GUIDE RAILING FOR HIGHWAYS
ITEM 204 - ANCHORAGE UNITS FOR HEAVY POST BLOCKED OUT CORRUGATED BEAM MEDIAN BARRIER

A. Description.

Under this item the Contractor shall furnish and install anchorage units for heavy post blocked out corrugated beam guide railing or median barrier in accordance with the Plans, Specifications and as ordered by the Engineer.

B. Materials.

The materials shall conform to the material requirements of Item 35BO, Heavy Post, Plastic and Synthetic Block-Out Galvanized Corrugated Steel Beam Guide Railing, M6 Structural Steel, M17 Bar Reinforcement for Cement Concrete. Concrete shall meet the requirements of Class A Concrete for structures. All steel shall be galvanized in accordance with ASTM A 123.

C. Construction Details.

1. WF Beam Posts shall be driven, unless otherwise specified by the Engineer, by approved methods and equipment that will leave the posts in their final position, free of any distortion, burring or other damage.
2. When posts for guide railing or median barrier are to be driven through asphalt or adjacent to a stabilized shoulder course, extreme care shall be taken to prevent damage to the paved or shoulder course. Large holes and voids caused by driving the posts shall be filled and compacted with a bituminous treated material or asphalt concrete similar to that damaged. The small area adjacent to the post disturbed during installation or where gaps exist at the post after pavement repairs shall be sealed with a bituminous material approved by the Engineer, at no cost to the County.

D. Method of Measurement.

1. Anchorage units will be measured by the actual number of anchorage units installed in accordance with the Plans, Specifications or as directed by the Engineer

E. Basis of Payment.

1. The unit price bid for each anchorage unit shall include the cost of furnishing all labor, materials, equipment and incidentals as necessary to complete the work.

ITEM 205 - HEAVY POST BLOCKED-OUT CORRUGATED BEAM GUIDE RAILING CONNECTION TO TWO RAIL STEEL BRIDGE RAILING

A. Description.

1. The Contractor shall furnish and install components for connecting galvanized heavy post blocked-out corrugated beam guide railing to existing two rail steel bridge railing at the locations indicated on the Contract Plans.
2. The performance of this work will require the removal of a portion of the existing railing.

B. Materials.

1. All material furnished for the steel bridge rail end assembly shall Conform to the requirements stated on the plans.
2. All remaining material shall conform to the requirements of Items 200 and 201, except that the posts, back-up plates, offset beams, soil plates, channels and hardware shall be as detailed on the plans.
3. The offset beams and channels for the guide rail shall conform to ASTM A36. End sections and back-up plates shall conform to the requirements for corrugated rails.
4. Bolts, nuts, and washers for attaching guide rail to bridge rail extension, offset beams to posts, and rails to offset beams shall conform to ASTM A325 and shall be galvanized according to ASTM A153.

C. Construction Details

1. All requirements of Items 200 and 201 shall apply in addition to the following: The Contractor shall exercise care in attaching the guide rail to the existing railing so as not to damage the rails, posts, joints or splices. Any damage due to the Contractor's operation shall be repaired or replaced as ordered by the Engineer at no expense to the County in accordance with Item B6B, Steel Bridge Railing.

D. Method of Measurement.

1. Guide railing connections to bridge railing shall be measured by the number installed.

E. Basis of Payment.

1. The unit price bid for each guide railing connection shall include the cost of all labor, materials and equipment necessary to complete the work.

ITEM 206 - HEAVY POST BLOCKED-OUT CORRUGATED BEAM GUIDE RAILING CONNECTION TO THREE RAIL TUBULAR STEEL BRIDGE RAILING

A. Description.

1. The Contractor shall furnish and install a galvanized heavy post blocked-out corrugated beam guide railing to existing three rail tubular steel bridge railing at the locations indicated on the Contract Plans. The performance of this work will require the removal of a portion of the existing railing.

B. Materials.

1. All materials furnished shall conform to the requirements of Items 200 and 201, except that the posts, back-up plates, offset beams, soil plates, channels and hardware shall be as detailed on the plans.
2. The offset beams and channels shall conform to ASTM A36. The back-up plates shall conform to the requirements for corrugated rails.
3. Bolts, nuts and washers for rail splices shall conform to Items 200 and 201. U-Bolts, nuts, and washers shall conform to ASTM 307, shall be galvanized. All other bolts, nuts and washers, shall meet the requirements of ASTM A325 and shall be galvanized according to ASTM A 153.

C. Construction Details

1. All requirements of Items 200 and 201 shall apply in addition to the following:
2. The Contractor shall exercise care in attaching the guide rail to the existing railing so as not to damage the rails, posts, joints or splices. Any damage due to the Contractor's operation shall be repaired or replaced as ordered by the Engineer at no expense to the County in accordance with Item 86B.

D. Method of Measurement.

1. Guide railing connecting to bridge railing shall be measured by the number of linear feet measured along the axis of the guide railing and between its extreme outer limits as shown on the plans.

E. Basis of Payment.

1. The unit price bid per linear foot shall include the cost of all labor materials and equipment necessary to complete the work.

ITEM 207 - HEAVY POST BLOCKED-OUT CORRUGATED BEAM GUIDE RAILING CONNECTION TO WALLS (TRAILING ENDS)

A. Description.

1. The Contractor shall furnish and install all components for connecting trailing ends of heavy post blocked-out corrugated beam guide railing to walls in accordance with the plans, specifications, and as ordered by the Engineer.

B. Materials.

1. All materials furnished shall conform to the requirements of Items 200 and 201 except that the posts, back-up plates, offset beams, soil plates, base plates, channels, expansion anchors, anchor bolts, and hardware shall be as. detailed on the plans.
2. The offset beams and channels shall conform to ASTM A36. The back-up plates shall conform to the requirements for the corrugated rails.
3. Bolts, nuts, and washers for attaching offset beams to posts, and rails to offset beams, shall conform to ASTM A325 and shall be galvanized in accordance with requirements of ASTM A153.
4. Anchor bolts and grout for anchor bolts shall conform to the requirements of Items 200 and 201.
5. When the posts are required to be encased in concrete, the concrete shall meet the requirements specified for Class A concrete in Item 17.

C. Construction Details

1. All the requirements of Items. 200 and 201 shall apply except for the following:
2. Holes for the expansion anchors shall be carefully drilled. Any damage caused to the wall shall be repaired by the Contractor to the satisfaction of the Engineer.

D. Method of Measurement.

1. Guide railing connections shall be measured by the number furnished and installed in accordance with the plans, specifications and as directed by the Engineer.

E. Basis of Payment.

1. The unit price bid for each guide railing connection shall include the cost of all labor, materials, and equipment necessary to complete the work as well as any repairs to existing facilities made necessary by the Contractor's operations.

ITEM 208 - RECONSTRUCTION OF HEAVY POST BLOCKED-OUT CORRUGATED GUIDE RAILING
ITEM 209 - RECONSTRUCTION OF MEDIAN BARRIER

A. Description.

1. Under this Item the contractor shall remove, store, reconstruct and reinstall guide railing or median barrier of the type(s) existing on the contract site where and as shown on the plans in accordance with the specifications and/or ordered by the Engineer.

B. Materials.

1. The guide railing or median barrier on which the work is to performed under this Item shall be that existing on the site. It shall be galvanized corrugated steel beam guide railing (as specified under Item 200 & 201 of this contract).
2. The existing guide railing designated to be reconstructed shall be carefully dismantled and the posts removed if necessary. All posts, rails, hardware and other railing parts which are in satisfactory condition acceptable to the Engineer for incorporation in the repaired guide rail shall be salvaged. All other members or parts of the railing that are determined to be in unsatisfactory condition and not acceptable to the Engineer shall be removed from the site.
3. The Contractor shall furnish all such new railing parts or members to replace the damaged discarded materials in sufficient quantity as necessary to restore the guide rail/median barrier complete in its original state and position.
4. All materials furnished shall be new, equal in all respects in quality, type and kind to railing members as specified under Items 200 & 201 of the contract.
5. All salvaged material re-used shall be cleansed and free of dirt, rust, scale or other foreign material.
6. All railing members damaged or loosened by the contractor as a result of his work under this Item shall be repaired, tightened or replaced as directed by the Engineer, at the contractor's expense.
7. The contractor shall reset posts as necessary and install the railing and other railing parts or members as required to complete the installation and establish the guide rail/median barrier to its initial line and grade. All fastening hardware (splice bolts, attachment bolts etc.) shall be reinstalled or replaced as necessary and tightened to the appropriate torque limits

C. Maintenance and Protection of Traffic.

1. Proper precautions shall be taken to protect and maintain traffic at all times according to standards set forth in the New York State Manual of Traffic Control Devices. Repairs shall generally be made within one working day. In no case shall gaps or disconnected sections of rail with un-protected ends be allowed overnight once repair work has been started.

D. Method of Measurement.

1. The quantity to be paid for under this Item shall be the number of linear feet reconstructed, as measured from center to center between posts complete in final position.

E. Basis of Payment.

1. The unit price bid for this item shall include the cost of furnishing all labor, materials, tools, equipment, and incidentals necessary to satisfactorily complete the work including all new materials furnished as required to replace materials discarded, damaged or as otherwise directed by the Engineer.

ITEM 210E - ET-2000 ENERGY ABSORBING SAFETY END TREATMENT

A. Description.

1. This item shall govern for the furnishing and installation of the ET-2000 guiderail end treatment, or equal (based on equivalent crash-tests results and equivalent site=space requirements) at the locations shown in the plans. After installation, the end treatments shall remain intact and redirect traffic face vehicular impacts and flatten the rail elements to attenuate end-on vehicular impacts within normally expected ranges. The ET-2000 was tested on flat terrain and is recommended on slopes. The ET-2000 end treatment is a patented product and may be obtained from Syro Steel Company, 1170 North State Street, Girard, Ohio 44420. (216) 245-4373.

B. Materials.

1. All materials shall be new. The ET-2000 terminal shall be capable of flattening the guiderail to a depth of approximately 1 inch and bend it approximately 180 degrees away from the impacting vehicle. This unit shall be supported by two leg supports attached to the bottom and have two rubber pads on its face. This unit shall be attached to a 6" X 8" wood post by two 3/8" X 5" lag screws. The post shall be installed in a galvanized steel tube 8" X 6" X 3/16" X 4' 6" long with a 1'6" X 2'0" soil plate attached to the tube. A breakaway-cable assembly shall be anchored to the guiderail as shown in the plans. Other post and foundation tube assemblies in the system will be of similar size. Post 1 through 4 must be set in the steel foundation tubes. The breakaway posts at locations 5, 6, 7 and 8, may be installed if shown in the plans as option "B" without foundation tubes.
2. The guiderail elements shall be 25 feet continuous 12 gauge sections as specified in AASHTO M-180. Timber posts shall meet the requirements for materials as specified in AASHTO M-168 and preserved as specified in AASHTO M-133.

C. Construction.

1. Guiderail Extruder Terminal ET-2000 shall be fabricated and installed in accordance with the details shown in the plans so as to provide an end treatment which will remain intact and redirect traffic face vehicular impacts and flatten the rail element to attenuate end-on vehicular impacts within normally-expected ranges.
2. Further information regarding assembly and installation of the ET-2000 Energy Absorbing Safety End Treatment may be obtained from Syro Steel Company.
3. Damaged end treatments shall be repaired and replaced immediately. The repair or replacement will be at the contractor's expense.

D. Method of Measurement.

1. This item will be measured as each ET-2000 installation is in place as shown on the plans.

E. Basis of Payment.

1. The work performed and the materials furnished under this item, will be paid for at the unit price bid for ET-2000 which shall be full compensation for all labor, equipment, tools, incidentals, and services, and for furnishing all materials necessary to complete the work described in this item, including wood posts and blocks, steel tubes, guiderail, cable anchoring system, guiderail extruder and incidentals.

ITEM 210E - ET-2000 ENERGY ABSORBING SAFETY END TREATMENT

All provisions of Item 210E shall apply with the exception of the following:

1. Entire end treatments shall not be installed, but shall be delivered to Nassau County Department of Public Works' Maintenance Garage in Hicksville. If particular parts are required then payment for these parts shall be made under Item 506.

ITEM 216 - REMOVAL OF EXISTING GUIDE RAIL

A. Description.

1. Under this item the Contractor shall remove existing guide rail where and as shown on the plans and/or as ordered by the Engineer.

B. Removal Details.

1. The Contractor shall remove the existing guide rail, posts, bolts, nuts, washers, and concrete bootings, etc., and deliver to a designated County maintenance garage or dispose of as ordered by the Engineer.

C. Method of Measurement.

1. The quantity to be paid for under this item will be the number of lineal feet measured prior to the removal of the existing guide rail.

D. Basis of Payment.

1. The price bid per linear foot of removal shall include the cost of all labor, equipment, tools, storage delivery and/or disposal of the guide railing including the filling in of any voids.

ITEM 220 - CORRUGATED BEAM GUIDE RAILING

A. Description.

1. The Contractor shall furnish and install galvanized corrugated steel beam guide railing and median barrier posts, soil plates, base plates and hardware in accordance with the plans, specifications, and as ordered by the Engineer.

B. Materials.

1. The posts, soil plates, base plates, anchor bolts; and hardware shall be as detailed on the plans.
2. Corrugated beams, terminal sections and all hardware shall be fabricated as shown on the plena. Bolt holes in the beam at the post hole and elsewhere, as necessary, shall be enlarged or slotted to permit expansion and contraction and to facilitate erection. The beams shall be straight, unless otherwise required by the plans or specifications, and of uniform section. The edges shall be rolled to eliminate sharp edges.
3. Beams and terminal sections shall be made from 12 gage or heavier sheet and rolled from new billet open hearth, electric furnace or basic oxygen steel. The minimum yield point and elongation of the steel used in the beam and terminal sections shall be 50,000 psi and 12% in 2" gauge length respectively. They shall be galvanized in accordance with the requirements of ASTM A123.
4. Posts and soil plates shall conform to ASTM A36 and the backup plates shall conform to the requirements for the corrugated rails. They shall be galvanized in accordance with the requirements of ASTM A123.
5. Anchor bolts shall be fabricated from A449 steel having a minimum yield point of 50,000 psi (50ksi). All anchor bolts shall be hot-dipped galvanized, in accordance with the requirements of ASTM 153.
6. Splices shall be made with flat, roundheaded, grippable, galvanized bolts, nuts and washers conforming to ASTM A307, ASA E18.2, galvanized in accordance with anchor bolts above.
7. When posts are required to be encased in concrete; the concrete shall meet the requirements specified for Class A concrete in Item 17.
8. Epoxy polysulfied grout shall be a two-component, flexible, polysulfide modified epoxy grout containing inert mineral filler. This material is used for bonding fresh concrete to hardened concrete in both vertical and horizontal planes; grouting studs, etc. into hardened concrete; and making epoxy mortar for the repair of minor damaged areas or hardened concrete. This material should not be used when the temperature is below 50 degrees F.
9. The two-component epoxy system shall have a maximum ratio of epoxy resin to polysulfied polymer of 2:1 by weight (Min. 1 3/4:1). In addition, the ratio of epoxy resin to curing agent shall be 11:1 by weight (Max. 12:1, Min. 10:1). The fine inert mineral filler when incorporated into the carrying component(s) shall be nonsettling.

10. The epoxy resin shall consist of an unmodified epoxy resin and may contain a portion of fine inert mineral filler. It shall not contain solvents or reactive diluents. The epoxy resin shall be the condensation product of the reaction of bisphenol A with epichlorohydrin, shall be translucent, and shall have the following physical characteristics.

Specific Value			
Property	Min.	Max.	Test Method
Color, Hellige	0	5	ASTM D1544
Epoxide Equivalent	180	200	ASTM D1652

11. The polysulfied polymer shall.consist of a blend of a low viscosity polysulfied polymer, a tertiary amine catalyst and shall include a fine inert mineral filler. The component shall not contain solvents or diluents.

    a. The polysulfide polymer flexibilizer shall be a dichloroethyl formal polysulfide in the 1000-Molecular weight range having the following characteristics:

Specific Value			
Property	Min.	Max.	Test Method
Color, Hellige	9	12	ASTM D1544
Sulfur Content %	36	40	ASTM D129
Shelf Life	6 mos.	--	----------

12. When the two components are mixed in accordance with the manufacturer's instructions, the mixture shall have the following physical characteristics:

Specific Value			
Property	Min.	Max.	Test Method
Pot life at 77 Deg. F, min. Initial viscosity @ 77 Deg. F, poises	30		----------
Spray application	20	200	
Other applications	20	400	
Track free time @ 77 Deg. F, Hrs.	2	---	----------
Degree of temporary gelation, depth, in.	1/8		----------
Ash content, %	---	---	ASTM D482
Volatiles, %	0	4	ASTM D1259

13. The grout when mixed according to the manufacturer's instructions, shall harden into a solid having the following physical characteristics:

Property	Min.	Max.	Test Method
Compressive Shear	400	---	Interim Fed.
Double Strength, psi			Spec MMM-B-00350 (Army CE) Paragraph 4.5.4
Beam Break Test, lbs.	800		

C. Construction Details.

1. Posts, railing, median barriers and end assemblies shall be erected in the position and manner indicated on the Standard Sheets and in a manner approved by the Engineer. Necessary precautions shall be taken by the contractor that all utilities and structures are safe-guarded against damage. Any damage incurred during guide rail or median barrier systems installation shall be satisfactorily repaired by the contractor at no expense to the County.
2. Posts shall be driven unless otherwise specified by the Engineer. The driving shall be accomplished with approved equipment and methods that will leave the posts in their final position, free of any distortion, burring or other damage. When posts are driven through asphalt concrete or a bituminous treated material, the Contractor shall take care to prevent damage to the paved or treated areas. Large holes and voids caused by driving the posts shall be filled and compacted with a bituminous treated material or asphalt concrete similar to that damaged. The small area adjacent to the post after pavement repairs shall be sealed with a bituminous material approved by the Engineer.
3. As an alternate to driving posts on unpaved medians and where site conditions are such that driving is not possible, the Contractor shall carefully excavate for all post holes. Post holes and post foundation structures shall be backfilled and backfilled material compacted in accordance with Part 3, Section D, Paragraph j, County of Nassau Standard Specifications.
4. On structures and paved medians, base plates for posts shall be anchored as shown on the plans and as specified by the Engineer. Where drilling and grouting is required, the Contractor shall take care to prevent damage to the concrete, asphalt or other paved surfaces. The proposed construction method and equipment for drilling and grouting of holes shall be submitted to the Engineer for approval before drilling and grouting operations begin.
5. All posts shall be aligned to a tolerance of 1/4 inch for plumb and grade line.
6. The Contractor shall conduct all operations in a safe and prudent manner and shall provide, deploy and maintain traffic control devices and measures, i.e., signs, barricades, cones, flagmen, etc. as necessary according to standards set forth in the New York State Manual of Uniform Traffic Control Devices, as shown on the plans, or as directed by the Engineer.

D. Method of Measurement.

1. The quantity of guide railing or median barrier measured for payment will be the number of linear feet measured along the axis of the railing and between its extreme outer limits as shown on the plans and/or Standard Sheets or as directed by the Engineer. If shop curved guide railing or median barrier is specifically called for in the Contract Plans and Proposal, the quantity of guide railing or median barrier shall be the number of linear feet measured along the axis of the curved railing between the point of beginning of curvature as defined by the Engineer. If the railing is anchored to a structure instead of an anchorage unit or end assembly unit, the railing Will be measured up to the structure.
2. Where shop curved beam guide railing or median barrier is specifically called for on the Contract Plans or as ordered in writing by the Engineer and no provision for such curved beam railing is included in the contract proposal, the quantity of railing measured for payment will be as described above plus an additional allowance of 33 1/3 percent of the curved lengths at a factor of 1.0 measured along the horizontal centerline of the beam.

E. Basis of Payment.

1. The unit price bid per linear foot for the above work shall include the cost of all labor, equipment and material necessary to complete the work.
2. When posts are driven through Asphalt Concrete or Bituminous treated material, any repairs to damaged paved or treated areas shall be at the Contractor's expense.
3. The following payment factors shall be used for Item 220:

Post Spacing	Payment Factor
12' – 6"	1.0
6' – 3"	1.4
4' – 2"	1.6
3' – 1 ½"	1.9

4. The cost of installing posts by other means than driving, including hand excavation, shall be included in the unit price bid per linear foot.
5. The cost of test holes, as called for on the plans or as directed by the Engineer, shall be included in the unit price bid for this item.

   NOTE: Under these items the Contractor will be paid under the following schedule on each Work Order:

(0 – 100 ft.)	Installed
(101 – 200 ft.)	Installed
(201 – 300 ft.)	Installed
(301 ft. & over)	Installed

ITEM 221 - ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING
ITEM 222 - ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING (DRIVEWAY)

A. Description.

1. The Contractor shall furnish and install galvanized corrugated steel beam guide railing anchorage units and median barrier anchorage units as shown on the plans, in accordance with the specifications, and as ordered by the Engineer.

B. Materials.

1. All materials furnished shall conform to the requirements of Item 220 except that the anchors, posts, mounting brackets, back-up plates, anchor rods, and hardware shall be as detailed on the plans.
2. The anchorage unit for driveways shall include the special shop curved rail.
3. Bolts, nuts, and washers for attaching mounting brackets to post and rails to mounting brackets, shall conform to ASTM A325 and shall be galvanized according to ASTM A153.
4. Concrete for the anchor shall meet the requirements specified for Class A concrete in Item 17.

C. Construction Details.

1. All of the requirements of Items 220 shall apply in addition to the following:
2. The anchors for guide rail shall be as noted on the plans and/or as ordered by the Engineer either flat top or slanted top according to slope conditions at the particular installation site. The anchors for median barrier shall be flat top with provision for fastening both rails as shown on the specification plans. The anchors may be either precast or formed and poured in place. Backfilling shall be according to Part III, Section D, Paragraph N, Nassau County Standard Specifications except that the horizontal layers may be 18 inches thick. Where anchors are placed within the limits of a concrete sidewalk, the concrete shall be carefully removed as directed by the engineer and legally disposed of. After completion of the installation, the area shall then be restored to conform to the adjoining area, or as ordered by the Engineer.
3. In the event of unusual field conditions, the Engineer may require an anchorage unit of different size and shape than that shown on the specification plans.

D. Method of Measurement.

1. Anchorage units Shall be measured by the number furnished and installed in accordance with the plans, specifications, and as directed by the Engineer.

E. Basis of Payment.

1. The unit price shall be as designated "Pay Limit anchorage unit" on the plans. The unit price bid for each anchorage unit shall include the cost of all labor, 'materials as shown on the plans, and equipment necessary to complete the work including: rails, posts, brackets; anchor rods, hardware, reinforcing bars, concrete excavation and backfill and forms if necessary.
2. The cost of test holes, as called for on the plans or as directed by the Engineer, shall be included in the unit price bid for this item.

ITEM 502 - HIGHWAY SEALING AND SURFACE COATING (LATEX)

A. Description.

1. This specification covers the materials and construction procedures for sealing shrinkage cracks and spelling in roadways and sidewalks, and providing a surface coating to prevent further deterioration. To accomplish these goals, a latex admixture shall be used in mortars and concrete..

B. Materials.

1. The material used to surface coat the roadways and sidewalks is a 42% solids, organic polymer latex admixture (sika latex or equal). A white milky mixture it contains air-detraining agents.

C. Mixing.

1. The mixes to be used should be mixed in the following proportions:
   a. **Mortar.**
      1) Cement – 94 lb. (one bag) 7 Type II or Type III
      2) Sand – 3 ¼ cubic ft.
      3) Latex – 4 gal.
      4) Water – as required
   b. **Concrete.**
      1) Cement – 94 lb. (one bag) 7 Type II or Type III Sand - 2 % cu. ft.
      2) Crushed stone or gravel, % in. max. size-2 cu. ft.
      3) Latex – 4 gal.
      4) Water – as required
   c. Wither mixer running, add materials in the following order:
      1) Latex
      2) Aggregate
      3) Cement
      4) Water as required

D. Construction Procedure.

1. All surfaces to be coated must be cleaned free of dust, laitance, scale, oil, grease, curing compounds, impregnations, waxes, foreign particles, painted lines, and disintegrated material, by sandblasting or using mechanical abrasion methods. Particular care must be used to ensure that cracks are free of any substance that may prevent sealing or a successful bond between the surface coating and the concrete.
2. At time of placement, substrate should be damp with no free standing water. Place mortar or concrete in area to be resurfaced, and brush into surface with a stiff bristled broom. Care should be exercised to see that mortar is brushed into surface at all edges. Before scrub coat has a chance to dry, additional mortar or concrete should be placed and struck off to a smooth even surface. The latex mortar should then be screeded, bullfloated and/or troweled. Over finishing should be avoided.

3. As soon as the finish is placed and to avoid any damage, area should be cured with damp burlap or white-pigmented polyethylene film. Curing should continue for 24 hours.
4. Under normal temperature conditions, area may be opened to foot traffic after 24 hours; to light traffic after 2-4 days' and to heavy traffic after 3-5 days.
5. Latex-modified portland-cement mixtures are more difficult to finish than non-modified mixtures. A hard, steel trowel finish is almost impossible to achieve. Avoid overworking or over finishing surface. Do Not use air entraining cements with latex.

E. Basis of Payment.

1. Sealing and surface coating shall be paid on a square foot basis. The price bid shall include the cost of furnishing all labor, materials, tools and equipment necessary to satisfactorily complete the required work in accordance with the specifications and/or as directed by the Engineer.
2. No additional payment will be made for cleaning the existing pavement or sidewalk, but the cost shall be included in the square foot paid for the sealing and surface coating.
3. The Contractor shall conform to the requirements of Item 102 - Maintenance and Protection of Traffic. A minimum of one lane of traffic in each direction shall at all times.

ITEM 502A - 2" INSIDE DIAMETER PVC ELECTRICAL CONDUIT
ITEM 502B - 3" INSIDE DIAMETER PVC ELECTRICAL CONDUIT
ITEM 502C - 4" INSIDE DIAMETER PVC ELECTRICAL CONDUIT

A. Description.

1. Under this Item the Contractor shall furnish and install polyvinyl chloride (PVC) electrical conduit in unpaved areas, under driveway aprons, sidewalk ramps, sidewalks and other locations shown on the Plans, in accordance with the Specifications and/or as directed by the Engineer.

B. Materials.

1. All PVC electrical conduits shall have a minimum cover of eighteen (18") inches.
2. Conduit ends shall extend a minimum of two (2') feet beyond the edge of the driveway apron or sidewalk unless otherwise directed by the Engineer.
3. All PVC couplings shall be secured with approved PVC cement. All open ends shall be capped without gluing to provide for subsequent removal. Joints shall be kept to a minimum.
4. All materials and methods of installation shall conform to the requirements of the latest edition of the National Electrical Code and Municipal Codes.

C. Method of Measurement.

1. The quantity to be paid for under this Item shall be the number of linear feet of PVC electrical conduit having the inside diameter specified above furnished and installed at locations shown on the Plans, in accordance with the Specifications and/or as directed by the Engineer.

D. Basis of Payment.

1. The unit price bid shall include the cost of furnishing all labor, materials, equipment and any other incidentals necessary to complete the work, except as hereafter noted:
2. The cost for removal of the driveway aprons and sidewalks, when required, shall be paid for under the appropriate item for removal.
3. The cost for excavation, compaction, backfill/restoration required for the installation of this Item shall be included in this Item.

ITEM 502J - ELECTRICAL JUNCTION BOXES

A. Description.

1. Under this Item the Contractor shall furnish and install electrical junction boxes complete with all necessary covers, conduits, duct and hardware at locations shown on the Plans, in accordance with the Specifications and/or as directed by the Engineer.

B. Materials.

1. The polymer concrete boxes shall be stackable, shall have bolted covers and their sizes shall be determined on an as needed basis and agreed to by the Engineer.
2. The polymer concrete material shall be an aggregate consisting of sand and gravel bound together with a polymer and reinforced with continuous woven glass strands. Minimum mechanical strength properties of the material shall be: 11,000 psi compressive, 1700 psi tensile and 7500 psi flexural.
3. The material shall meet minimum acceptance criteria for chemical resistance, accelerated service exposure, simulated sunlight exposure, water absorption, flexural properties and flammability in accordance with ASTM D543, D756, D1501, D560, D790 and D635 respectively.
4. Light vehicular traffic design shall be based on a 5000 pound load over a ten-inch by ten-inch (10"×10") area. Light vehicular design shall be provided.
5. The bottom of the box shall be open "footed."
6. A standard "ELECTRIC" logo shall be displayed on the box cover. A minimum two and three-eighth-inch ($2\ ^{3}/_{8}$") hex head stainless steel cover bolts and inserts shall be provided.
7. The ground rod shall be five-eighth-inch ($^{5}/_{8}$") diameter, eight feet (8') long solid steel core with copper jacket. The ground rod clamp shall be one piece bronze with hex head screw. Both rod and clamps shall conform to UL Standard 467 "Electrical Grounding and Bonding Equipment."
8. Sealant for duct, conduit and the box cover shall be a putty-like compound which is non-hardening, non-oxidizing and non-corrosive. It shall seal against the entrance of water, and shall have a service temperature range at minus 30°F to 200°F. It shall be clean, non-poisonous and non-injurious to human skin.
9. All materials and methods of installation shall conform to the requirements of the latest edition of the National Electrical Code and Municipal Codes.

C. Construction Methods.

1. Conduits and duct shall be installed before the boxes are set in place.
2. The boxes shall be set plumb and secure with the top above grade so that water will not drain into the boxes. Backfilling shall be done with sufficient care that no part of the junction box, conduit or duct will be displaced or moved out of alignment.

3. Backfill material shall be placed in six-inch (6") layers and compacted to a density comparable to the adjacent disturbed material.
4. Junction boxes shall be located as shown on the Plans, in accordance with the Specifications and/or as directed by the Engineer. Relocation will be acceptable for better routing of conduit and duct and to minimize drainage problems, if so directed by the Engineer. Junction boxes are neither designed nor intended for use where they would be subjected to roadway traffic loadings such as in useable shoulders or pavements.
5. The bottom of the box shall not rest directly on conduits, ducts or cables.
6. The top of the box shall be on the same grade as the surrounding area except it shall be raised a minimum of three (3") inches to allow the backfill materials to be sloped to prevent surface runoff from entering the box.
7. A ground rod shall be installed as indicated on the plans with bonding jumpers, etc. as required. Ends of conduit and duct shall be stubbed up vertical as near the top of the box as practical and shall be sealed. Wiring shall be arranged so that it will not lie in the bottom of the box.
8. Sealant shall be placed between the cover and box to prevent surface runoff from entering the top of the box.

D. Methods of Measurement.

1. The quantity to be paid for under this Item shall be the total number of cubic feet of electrical junction boxes furnished and installed in accordance with the Specifications and/or as directed by the Engineer

E. Basis of Payment.

1. The unit price bid for furnishing and installing electrical junction boxes shall include the cost of furnishing all labor, material and equipment necessary to complete the work, including but not limited to the necessary excavation, compaction, backfill/restoration required for the installation of the electrical junction boxes.

ITEM 510 - BRIDGE DECK WATERPROOFING MEMBRANE

1. Description.

Under this item the contractor shall clean the existing concrete pavement and furnish and place a heavy-duty membrane fabric for waterproofing of the structural bridge deck at the designated locations shown on the plan or as directed by the engineer.

2. Materials.

a. The material shall be a waterproof membrane incorporating a high strength heat resistant mesh embedded in a layer of self-adhesive rubberized asphalt. The material shall be supplied in rolls interwound with a special release paper which protects the adhesive surface.

b. The fabric shall be stored in a dry protected place. The rolls shall not be stored on end.

c. The membrane shall be heavy-duty bituthene as supplied by Grace Construction Products' or an approved equal.

3. Construction Procedure.

a. SURFACE PREPARATION

(1) Surfaces shall be free of voids, spelled areas and loose aggregate with no visible protrusions. The surfaces shall be thoroughly cleaned of all contaminants (oil, grease, etc). Defects in the surface shall be corrected as ordered by the engineer.

(2) All surfaces shall be allowed to dry thoroughly following a rain or fog. Immediately before priming, the surface shall be thoroughly cleaned to remove dust, loose stones, and debris by vacuuming or blowing with compressed air.

b. PRIMING - All concrete surfaces must be primed with bituthene primer at a coverage of 250 and 350 sq. ft. per gallon, depending on surface porosity. Apply bituthene primer with a lambswool roller. Primer should dry one hour or until tack free. To avoid pickup of excess dirt, prime only the area which is expected to be covered in a working day.

Areas not covered with membrane within 24 hours shall be reprimed. If excess dust covers primed areas, it shall be removed by blowing with compressed air. Primer dries to a gray color.

c. TEMPERATURE - Heavy-duty bituthene should be applied at deck and air temperatures above 40 degrees F and in fair weather.

d. SLAB DRAINAGE AND JOINTS

(1) Proper pitch shall be provided to gutters and drains. Heavy-duty bituthene shall be laid from the low point to the high point with the membrane overlapped in shingle fashion. Weep holes or drainage openings shall be provided at the structural deck level to drain water which penetrates the asphalt concrete and accumulates on the membrane.

(2) Over non-working joints or cracks greater than 3/16" wide, an 8" reinforcing strip of heavy-duty bituthene must be applied before placing the full coverage membrane.

(3) Heavy-duty bituthene should be terminated at expansion joints and the termination edges sealed with bituthene mastic. At steel expansion dams, heavy-duty bituthene should be terminated on the concrete deck and a fillet of bituthene mastic shall be used to insure a tight seal.

e. PLACEMENT OF MEMBRANE

(1) Heavy-duty bituthene shall be applied by removing the release sheet as the membrane is unrolled with the tacky surface in contact with the primed structural deck. The membrane shall be laid in the direction of paving to assure that the end laps shall be staggered. Edges and ends of the membrane shall be overlapped a minimum of 2-1/2".

(2) The membrane shall be laid carefully to assure uniform laps and to minimize wrinkles and fishmouths. Immediately after placement, the entire membrane shall be thoroughly rolled to ensure uniform contact with the structural deck. Rolling shall be done as soon as possible after placement of the membrane in order to minimize blisters.

f. CURBS AND TERMINATION EDGES

(1) Curb flashing (as shown on plans) shall be applied to a point just below the height of the asphalt concrete overlay and a minimum of 6" on the deck. The first full sheet shall then be placed as close as possible to the curb. Irregularities shall be covered with an epoxy mortar, or a troweled application of bituthene mastic which is allowed to dry for a minimum of one day before applying the membrane. A fillet shall be provided at the curbs to avoid a sharp break at these points. The fillet material shall be well adhered to the deck and curb. All termination points at curbs, expansion joints or deck ends shall be carefully rolled. On curbs, pressure shall be applied to the membrane with a smooth metal or hardwood tool. This shall be done carefully to assure tight contact.

(2) All terminations shall be then sealed with a troweled application of mastic, 1/2" to 1" wide and 1/8" thick.

(3) Areas around drains shall be double covered with heavy-duty bituthene flashing pieces and shall be applied under the full membrane to minimize damage.

g. PAVING

(1) The asphalt concrete temperature at time of placement shall be between 250 degrees F and 300 degrees F. Paving shall not be, started following rain, until the membrane surface is completely dry. Traffic shall not be permitted on the membrane prior to paving. Except for asphalt placing equipment, sudden stops or sharp turns shall be avoided by the compaction rollers.

(2) To avoid damage to the membrane, the asphalt concrete overlay shall be placed within three days after placement of heavy-duty bituthene. Prior to paving, tears and inadequately lapped -seams shall be prepared by patching with heavy-duty bituthene. All fishmouths shall be slit and the flaps overlapped and then repaired with a patch. Blisters shall also be punctured and repaired.

4. Basis of Payment.

a. The placement of the membrane shall be paid on a square yard basis. The price bid shall include the cost of furnishing all labor, materials, tools and equipment necessary to satisfactorily complete the required work in accordance with the specifications and/or as directed by the engineer.

b. No additional payment will be made for cleaning of the concrete pavement or the placement of the primer, but the cost shall be included in the square yard price bid for the installation of the membrane system. The placement of asphalt concrete and the repair of the concrete structural deck shall be paid for under the appropriate items.

ITEM 511 - PNEUMATICALLY PLACED CONCRETE

1. Description

Under this item the Contractor shall remove loose and deteriorated concrete and rebuild the damaged concrete surfaces by placing pneumatically projected concrete at designated locations shown on the plan or as directed by the engineer.

2. Materials.

a. Cement shall be Portland Cement Type II A.

b. Sand shall be clean, sharp and reasonably free from clay, loam and silt. The term "dry" as applied to sand, designates a normal moisture content of from 3% to 5%. All particles shall pass a 3/8" sieve.

c. Water shall be fresh, clean and free from injurious amounts of oils, acids, alkali or organic matter.

3. Reinforcement.

a. Wire mesh shall conform to the Standard Specifications for Welded Steel Wire Fabric or Concrete Reinforcement (A.S.T.M. Designation: A 185) of the American Society for Testing & Materials. Wire mesh shall be 2" X 2"-#12 X #12 galvanized welded wire fabric. Wire sizes are expressed as gauge numbers of the United States Steel Wire Gauge. The galvanized coating shall be capable of successfully withstanding an eight-dip Preece Test conducted in accordance with the Standard Method of Test for Uniformity of Coating by the Preece Test (A.S.T.M. Designation: A239) of the American Society for Testing and Materials. Wire mesh sheets shall be side lapped at least one and one-half meshes and all laps shall be firmly tied together with wire at intervals not to exceed 18" along the lap.

b. Wire mesh shall be fastened to the existing 'concrete with 1/4" diameter expansion bolts or powder-actuated fastenings spaced a maximum of 24" center to center in each direction. Wire mesh shall be tied to existing steel reinforcing, with wire ties spaced a maximum of 4 inches on center, where necessary.

c. Where the chipped area or surface is more than two (2) or more inches in depth, and the existing reinforcement is in poor conditions as determined by the Engineer or there is no reinforcement, galvanized wire fabric and mechanical concrete anchors shall be used as a bond between existing and new concrete.

d. Minimum clearance between the wire fabric and the surface of the old concrete and minimum cover over the fabric shall be 3/4". The fabric shall be carefully bent and shaped so as to follow closely the contours of the area to be repaired. Care shall be exercised not to peel off the galvanizing of the fabric while bending.

e. The full area of wire mesh shall be held firmly in position by means of sixteen (16) gauge or eighteen (18) gauge galvanized wire ties.

f. In places where the depth of the section removed exceeds three (3) inches over an appreciable area, two (2) or more layers of fabric shall be used.

4. Surface Preparation.

a. Disintegrated and Spalled Concrete shall be removed by chipping with pneumatic hammers and chisels to sound concrete. All cracks and cavities shall be chipped to such formation that their sides are approximately perpendicular to the exposed surface forming a mechanical shoulder for at least two (2) inches in depth. All existing concrete shall be cleaned by flushing or scouring with water and compressed air jets to assure removal of all loose particles. The air pressure at the nozzle shall not be less than 50 pounds and the water pressure shall be 20 pounds greater.

b. Corrosion: corroded and rusted reinforcing steel shall be cleaned by sandblasting to insure positive bond of the pneumatically placed mortar reinforcing steel.

c. Bond: to insure perfect bond, the newly chipped and sand-blasted surface shall be thoroughly moistened with water, not less than one hour prior to application of the mortar. In no instance shall the mortar be applied in an area where free running water exists.

5. Proportioning.

Mortar shall be mixed in the proportion of one (1) sack of Portland Cement to 3 cubic feet of sand, volumetrically batch measured.

6. Mixing.

a. Mortar shall be thoroughly mixed in a dry state either by hand or in a mechanical mixer before placing in the hopper of the cement gun or other apparatus.

b. Water shall not be added to the mix after mixing or before using the cement gun.

c. Material that has been mixed forty-five (45) minutes without being used shall be discarded.

d. Remixing or Tempering shall not be permitted.

7. Application.

a. Temperature Below 32 Degrees F.- Mortar shall not be placed on a frozen surface nor during freezing weather. Mortar shall not be placed when it is anticipated that the temperature during the following twenty-four (24) hours will drop below thirty-two (32) degrees Fahrenheit.

b. Sequence of Application may be from bottom to top or vice-versa if rebound is properly removed.

c. Corners Shall be filled first, "shooting" shall be from an angle as near perpendicular to the surface as practicable, with the nozzle held approximately three (3) feet from the work (except in confined control). If the flow of material at the nozzle is not uniform, and slugs, sand spots,

or wet "sloughs" result, the nozzle man shall direct the nozzle away from the work until the faulty conditions are corrected. Such defects shall be replaced as the work progresses.

8. Suspension.

Work shall be suspended if:

a. High Wind separates the cement from the sand at the nozzle.

b. Temperature approaches freezing temperature and the mortar cannot be protected.

c. Rain or other than very light sprinkles would wash out the mortar.

d. Time Interval between successive layers in sloping, vertical or overhanging work must be sufficient to allow initial, but not final, set to develop. At the time the initial set is developing the surface shall be cleaned to remove the thin film of laitance in order to provide for a perfect bond with succeeding application.

e. Construction Joints or day's work joints shall be sloped off to a thin clean, regular edge, preferably at a forty-five (45) degree slope. Before placing the adjoining work, the sloped portion and adjacent work shall be thoroughly cleaned as necessary, then moistened and scoured with an air jet.

9. Surface Finish.

a. Nozzlemen shall bring the mortar to an even plane and to well-formed corners by working up to ground wires or other guides, using somewhat lower placing velocity than normal.

b. Screeding- after the body coat has been placed, the surface shall be trued with a thin edge screed to remove high areas and expose low areas. Low areas shall be properly filled with mortar to insure a true flat surface.

c. Final Finish- after surface has been trued the entire surface shall have a broom finish.

10. Curing.

The curing compound shall be antisol clear, as manufactured by Sika Chemical Company or an approved equal.

11. Adjacent Surface Protection.

Appearance: during progress of the work, where appearance is important, adjacent areas or grounds which may be permanently discolored, stained, or otherwise damaged by dust and rebound, shall be adequately protected and, if contacted, shall be cleaned by early scraping, brushing, or washing, as the surroundings permit.

12. Equipment.

a. Cement Gun: the pneumatic mixing and delivering equipment shall be of sufficient capacity and the lower chamber shall deliver material to the delivery hose continuously during the upper chamber recharging period.

b. Gaskets: in the equipment shall be kept in good condition, to avoid reduced' pressure and consequent reduced velocity of material during the charging periods. The interior of the drums, feed gearing and valves shall be cleaned at regular intervals (at least once very 8 hour shift).

c. Hose & Nozzle: the maximum length of material hose for the application of the mortar shall be approximately one-hundred (100) feet although it shall be permissible to use as much as five-hundred (500) feet of material hose if the supply nozzle pressures are increased to maintain proper velocity. The following nozzle pressures shall be determined by the type of work involved.

d. Pressures

(1) For Rough or Heavy Work: nozzle pressures of fifty (50) to sixty (60) pounds.

(2) For High Lifts or long hose to insure against clogging, pressures of seventy (70) to seventy-five (75) pounds.

e. Air Compressor: Any standard type of compressor shall be satisfactory if it is of sufficient capacity to provide, without interruption, the pressures and volume of air necessary for the longest hose delivery. The air compressor capacity determinations shall include allowances made for the air consumed in blowing rebound, cleaning reinforcing and for incidental uses. Compressor equipment shall be of such capacity so as to insure air pressures at the special mixer capable of producing the following material velocities.

f. Velocities

(1) 375 to 500 feet per second using three-fourth (3/4) inch or one (1) inch nozzles.

(2) 425 to 550 feet per second using one one-half (1-1/2) inch nozzle. Nozzles shall be of the "Pre-Mixing" type, with perforated water-feed ring inside the nozzle to direct an even distribution of water through the material at the place of application.

g. Water Pump: Water pressure shall be maintained at approximately twenty (20) pounds higher than the highest air pressure required for placing. Both air and water pressure shall be uniformly steady (non-pulsating).

13. Qualifications & Duties of Contractors, Sub-Contractors & Working Personnel

a. The Contractor or the Sub-Contractor for this work shall have sufficient experience in this type of work and be able to show project satisfactorily completed.

b. The Contractor or Sub-Contractor shall do this work only with competent operators.

14. Contractors Daily Log & Record of Cement Used.

a. The Contractor shall make available to the Engineer a daily log defining the location and extent of each day's shooting operation.

b. A daily count of full bags of cement at the start and full bags of cement at the end of each day's shooting, as well as empty bags at the end of each day's shooting, will be verified by the Engineer.

15. Method of Measurement.

The quantity to be paid for under this item shall be the number of bags of cement used.

16. Basis of Payment.

The unit price bid per bag of cement for this item shall include the cost of furnishing all materials, labor, equipment and other incidentals necessary to perform this item, including but not necessarily limited to sand blasting, reinforcing steel and/or mesh, sand, cement, mixers, nozzles, curing compound, protection to structures and restoration of all areas damaged during the construction. The final product shall be satisfactory to the Engineer.

ITEM 512 – REPAIRING STRUCTURAL SLABS

A. Description.

1. Under this item the Contractor shall repair structural slabs by the use of a quick-setting concrete repair material as shown on the plan or as directed by the Engineer. To perform this work it will be necessary to remove all deteriorated or unsound concrete to a depth of at least 1/2 inch, sand blast all surfaces which will be in contact with the concrete repair material, vacuum clean the excavation and place and finish the concrete repair material. It will be required to saw cut areas to be repaired to provide vertical edges for new repair.

B. Materials.

1. The quick-setting concrete repair material used as part of the work shall be one of the following or an approved equal:
2. Duracal Gypsum Cement manufactured by United States Gypsum Company of Chicago, Illinois.
3. Pike Patch #1 manufactured by Preco Chemical Company of Plainview, New York.
4. Thoro System Road Patch manufactured by Standard Dry Wall Products of Miami, Florida.
5. At least one (1) week prior to starting the work, the Contractor shall supply the Engineer with two (2) copies of the manufacturer's literature for the concrete repair material(s) which he elects to use.

C. Equipment.

1. All equipment used for this work shall be subject to approval by the Engineer. The following requirements shall also apply:
2. Pneumatic Hammers heavier than the nominal 25- pound class shall not be used.
3. Sand Blasting Equipment shall be capable of removing chips of partially-loosened concrete and of removing rust from reinforcing scale.
4. Vacuum Cleaning Equipment shall be capable of all debris from the sand blasting operation.

D. Construction Details

1. The completed work shall have no depressions or projections greater than 1/4" measured from a straight-edge placed across the repair area. Where the surface deviations exceed 1/4", the repaired pavement shall be removed and replaced to the satisfaction of the Engineer: Where necessary, a minimum of 1" peripheral clearance around the upper reinforcing bar of the top reinforcing mat will be required.
2. The Engineer shall be the sole determiner of what constitutes deteriorated concrete.
3. Reinforcing steel and any miscellaneous metals encountered shall be cleaned of injurious rust.

4. No. 40 Boiler Slag Grit or No. 2 Sand Blast Sand shall be used for blast cleaning.
5. Debris from the sand blasting operation shall be removed by vacuum cleaning.
6. The concrete repair material shall be mixed in strict accordance with the manufacturer's literature.
7. Particular care shall be taken to ensure that thorough consolidation is attained at the edges.
8. The concrete repair material shall be cured in strict accordance with the manufacturer's literature or as directed by the Engineer.
9. Traffic shall be restricted from the repaired area until the required curing period can be obtained.

E. Method of Measurement.

1. The quantity to be paid for under this item will be the number of square feet of concrete repair material placed in accordance with the specifications.

F. Basis of Payment.

1. The unit price bid per square foot shall include the cost of furnishing all labor, materials and equipment to perform this work including but not necessarily limited to chipping, sand blasting, saw cutting, vacuuming and placing concrete repair material. The final product shall be satisfactory to the Engineer.

ITEM 513 - SAND BAGS IN PLACE

1. Description.

Under this item the Contractor shall furnish and place bagged sand around structures, in and around stream beds or at any location deemed necessary as shown on the plans or ordered by the Engineer where it is necessary to divert or stem the flow of water.

2. Materials.

Sand shall be of any grade but shall not contain gravel, stone, clay, loam or any deleterious lumpy material. The sand shall be placed in heavy cloth or burlap bags (plastic will not be allowed), each bag having not less than one cubic foot capacity.

3. Construction Details.

Bags of sand shall be placed where shown on the plans and shall provide a thickness not less than that shown or ordered by the Engineer.

4. Method of Measurement.

The quantity of bagged sand to be paid for under this item shall be the amount of bagged sand placed, measured in cubic yard in its final position within payment limit either shown on the plans or as directed by the Engineer.

5. Basis of Payment.

The unit price bid per cubic yard shall include the cost of furnishing all labor, materials and equipment necessary to complete the work.

ITEM 514 - EPOXY PROTECTIVE COATING

1. Description.

Under this item the contractor shall clean, furnish and place an epoxy protective coating on the exposed concrete or steel surfaces of bridges where indicated on the plans or where ordered by the engineer.

2. Material.

The protective coating for use under this item shall be a two component, solvent free, 100% solids epoxy based system duralkote as manufactured by Dural International Corporation, 95 Brook Avenue, Deer Park, New York, 11729 or an approved equal.

3. Method.

a. Preparation of surface - Concrete or steel surfaces shall be thoroughly cleaned of any dust, dirt, grease, oil or other objectionable Materials by sandblasting or power tool cleaning.

b. Mixing. The two parts of the epoxy coating system are furnished in separate containers - It is essential that the entire contents of both containers be thoroughly blended together. A paddle attached to a W electric drill with a rated speed not to exceed 550 RPM is recommended for mixing. For batches of less than one gallon, thorough hand stirring would be allowed.

c. Application - Material furnished under this item shall be applied in air temperatures above 40.degrees F. Dural Kote or an approved equal can be applied to a damp surface. However, freestanding water should be avoided.

d. Application shall be by brush or roller - Two different colored coats shall be applied on concrete. The first coat shall be gray or an approved equal. The second coat shall be tan or an approved equal and shall be applied after the first coat is thoroughly dry, The entire surface of the concrete shall be adequately covered and all pores filled. The total finished dry thickness shall be approximately 12 - 15 mils. on steel work. The color and thickness shall be as ordered by the engineer.

e. Caution in handling of the Epoxy Resin components cannot be over emphasized. It is recommended that the workers wear protective clothing, gloves and goggles. Do not get epoxy or resin on the skin or eyes and avoid breathing the vapors.

4. Method of Measurement.

The quantity to be paid for under this item will be the actual number of gallons of epoxy material properly mixed and incorporated in the completed work.

5. Basis of Payment.

The unit price bid shall include the cost of furnishing all labor, materials, tools, scaffolding and equipment necessary to prepare the surfaces and apply the surface coating in accordance with the plans or as directed by the engineer.

ITEM 515 - SAWCUTTING GROOVES IN EXISTING ASPHALT OR CONCRETE PAVEMENT

1. Description.

Under this item the Contractor shall cut grooves in existing pavement to conform with the details as shown on the contract plans and/or as directed by the Engineer.

2. Method.

The Contractor shall broom the pavement surface prior to sawcutting the grooves. He shall keep the roadway clean and free from all residue and debris that may occur from his operation. Upon completion and final acceptance of the contract, all grooves shall be clean and free from any materials washed into them to the satisfaction of the Engineer.

3. Method of Measurement.

The quantity to be paid for under this item will be the number of square yards of actual surface area of pavement grooved.

4. Basis of Payment.

The unit price shall include the cost of furnishing all labor, equipment and material necessary to complete the work satisfactorily.

ITEM 516 - LIME-CEMENT PAVEMENT GROUTING

1. Work Included:

Under this item the Contractor shall prepare and place a mixture of limestone and cement in amounts sufficient to fill the existing voids in the subgrade where indicated on the plans and/or as ordered by the Engineer. Voids will be filled without modifying the existing grade of the pavement.

2. Materials:

The limestone-cement slurry formula shall consist of the following materials and approximate proportions as directed by the Engineer:

One (1) bag of type 2 Portland Cement
Five (5) bags of ground limestone (75# to 100# per bag)
Ten (10) to fifteen (15) gallons of water

Water reducer shall be added to the above water at the rate recommended by the manufacturer.

Based upon field conditions and characteristics of the materials, equipment and traffic, the above proportions may be modified by the Engineer. These modifications may include the addition of air entraining agents meeting the following requirements:

a. Bleeding - The bleeding of concrete made with the admixture under test shall not exceed that of concrete made with the reference admixture by more than 2 percentage points, the bleeding being computed as a percentage of the net amount of mixing water in each concrete. The net mixing water is the water in excess of that present as absorbed water in the aggregate.

b. Time of Setting - The initial time of setting of concrete containing the admixture under test shall not deviate from that of the concrete made with the reference admixture by more than +/- 1 hour and 15 minutes.

c. Compressive Strength - The compressive strength of concrete containing the admixture under test shall be not less than 90 percent of that of similar concrete containing the reference admixture at 48 hours, 7 days, and 28 days.

d. Resistance to Freezing and Thawing - The hardened concrete containing the admixture under test shall not exceed a weight loss of 4.0 percent in 25 cycles in a 10 percent NaC1 solution.

e. Length Change - The length change on drying of concrete containing the admixture under test shall not be greater than 120 percent of that of similar concrete containing the reference admixture. The specimens shall be moist cured for 14 days followed by 14 days of air drying. Length changes shall be based on initial measurements taken at the time of removal of the specimens form the molds and final measurements shall be taken at the end of the 14 days of air drying.

The materials used in the limestone-cement mix shall conform to the following requirements:

(1) Portland Cement shall meet the requirements of Section B-MI.

(2) Ground Limestone shall contain a minimum of 90 percent of calcium and magnesium carbonates. The gradation shall meet the following requirements:

100%	shall pass the #40	mesh sieve
94%-100%	shall pass the #60	mesh sieve
B0%-90%	shall pass the #100	mesh sieve
20%-60%	shall pass the #200	mesh sieve

The limestone shall be dry and free of caking.

(3) The water reducer shall meet the following requirements:

The water-reducing admixtures shall reduce the quantity of mixing water required to produce concrete of a given consistency, and retard the setting of concrete. Concrete containing this admixture shall conform to the following requirements:

(a) Water-Reducing Admixtures - The water-reducing admixtures shall reduce the quantity of mixing water required to produce concrete of a given consistency. Concrete containing this admixture ,shall meet the following requirements of the water-reducing and retarding admixtures above except that the time of setting of the concrete containing the admixture under test shall not deviate from that of similar concrete without the admixture under test used as a reference by more than +/-1 hour and 15 minutes.

(b) Water Reduction - The mixing water required for concrete containing the admixture under test shall be reduced at least 5.0 percent when compared to that of the reference concrete without the admixture under test.

(c) Time of Setting - The initial set time of the concrete containing the admixture under test shall be increased by at least 50 percent when compared to that of the reference concrete without the admixture under test.

(d) Compressive Strength - The compressive strength of the concrete containing the admixture under test when compared to concrete without the admixture under test, shall be equal or greater at 48 hours, 7 days, and 28 days.

(e) Resistance to Freezing and Thawing The hardened concrete containing the admixture under test shall not exceed a weight loss of 4.0 percent, in 25 cycles in a 10% NaCl solution.

(f) Length Change. The length change on drying of concrete containing the admixture under test shall not be greater than 135 percent of that of similar concrete used as a reference. The specimens shall be moist cured for 14 days followed by 14 days of air drying. Length changes shall be based on initial measurements taken at the time of removal of the specimens from the molds and final measurements shall be taken at the end of the 14 days of air drying.

(4) Material for filling drilled holes shall meet the following requirements:

This product shall be of high strength and have fast setting characteristics. Compressive strength shall be a minimum of 2000 psi after 1 day and 5000 psi after 28 days. The material shall be able to withstand 25 cycles of freeze-thaw (10% NaC1) with a maximum loss of 4 percent. There shall be a minimal amount of expansion or shrinkage such that a special bonding agent is not necessary. The material shall exhibit no appreciable heat of hydration.

The color of the repair after it cures will be of substantially the same color as the item being repaired.

3. Execution:

The Contractor will arrange his operation such that successive drilling and grouting operations will progress within a time period that will insure the proper maintenance of traffic. The pressure distributor shall be approved by the Engineer and shall be capable of pumping the mixture at, sufficient pressure over the required distances and through the drilled holes into the voids beneath the slabs. Pumping shall continue until the mixture emerges along the edge of the pavement or breaks through the shoulder. To prevent distortion of the slab, pumping shall be immediately discontinued if the slab begins to rise before the mixture is observed at the edges of the pavement and, if so directed, additional holes shall be drilled before pumping is resumed. Pumping shall also be discontinued if the mixture begins to leak on the pavement surface through a joint or crack.
When the mixture appears in an unfilled hole or holes in the immediate pumping area, said hole or holes shall be plugged with a tapered softwood plug.

When the voids within an area have been completely filled, the pumping shall be discontinued and the hose nozzle allowed to remain in the hole for approximately thirty seconds before being withdrawn. Immediately following removal of the nozzle a softwood plug shall be driven into the hole and allowed to remain until the mixture has set. The softwood plugs shall be maintained flush with the top of the pavement until such time as the Engineer directs that the plugs be removed. Following the removal of the plug, all spillage and leakage around the hole and adjacent area shall be removed. the holes shall then be filled to the pavement surface with Concrete Repair Material.

Short trenches, extending slightly below the bottom of the pavement shall be dug at the end of joints or cracks where mud or water is encountered. Compressed air shall be used to remove the mud or water from beneath the pavement by forcing it out through the trenches.

At depressed joints, designated by the Engineer-in-charge, pumping will be discontinued at least ten feet from the end of the high side of a joint. Undersealing will be resumed beginning within then feet from the joint on the low side and pumping until the void area has been filled to the proper maximum. Operation will then be resumed in the area on the high side of the joint as previously described.

No lime-cement mixture shall be placed when the subgrade is frozen. The quantity of material pumped into each hole shall be determined by the Engineer.

4. Measurement Payment:

This work will be measured by the number of pounds of limestone furnished and placed as shown on the plans or directed by the Engineer. The unit price bid per pound of limestone furnished and placed will include the cost of furnishing wood plugs, cement, limestone, water, labor and equipment necessary to prepare and, place the lime-cement mix and seal the holes. Drilling holes will be paid for under a separate item.

ITEM 517 - DRILLING SUBSEALING HOLES FOR LIME-CEMENT PAVEMENT GROUTING

1. Work Included:

Under this work the Contractor shall drill holes through the existing cement concrete pavement for the undersealing of. the pavement with lime-cement pavement grouting at locations shown on the plans or as designated by the Engineer.

2. Material:

Not required.

3. Execution:

The hole diameter shall be between 2 1/4" and 2 5/8" diameter or of a diameter compatible with the installation of the lime-cement pavement grouting as determined by the Engineer or as recommended by the equipment manufacturer of the equipment used for placing the lime-cement mixture.

Holes shall be placed longitudinally at a spacing of 5' c to c and three rows of holes shall be placed in each slab. The middle row shall be located on the centerline of the slab and the other two rows approximately 2' in from the outer edges of the slabs. Holes shall be placed in a triangular pattern and the layout staggered in adjacent lanes so that as near as possible they would be about the same distance apart, or lay in circular patterns about each other. The hole pattern may be varied if shown on the plans or as ordered by the Engineer.

4. Measurement and Payment:

The number of holes to be paid for under this work will be the number of holes drilled in accordance with the plans and specifications or as directed by the Engineer. The unit price bid per each hole shall include the cost of all labor, materials, and equipment necessary for proper completion of the work.

ITEM 522 - TRIANGULAR GUIDE RAIL DELINEATOR

A. Description:

1. This item is to be used on Corrugated Beam Guide Rail, Heavy Post Blocked-Out Corrugated Beam Guide Rail, and Heavy Post Blocked-Out Corrugated Beam Median Barriers. The Triangular (trapezoid) shaped galvanized steel bracket delineator faced with reflective sheeting are placed within the depressed portion of the corrugated beam guide rail visible to vehicles.

2. Specifications are as follows: Triangular shaped slotted bracket - 12 gauge galvanized steel - approximately 5" X 2 3/4"

B. Material:

1. Reflective Material shall be Hi-Intensity Grade Sheeting.

2. Colors:

   a) **Front/Back:** White/Yellow, White/Red, Yellow/Red, White/Blank, and Yellow/Blank as specified on the plans or ordered by Engineer.

   b) **Size:** Top - 5", Bottom - 2 3/4", Height - 2 1/4" Effective Reflex Area approximately 8 square inches.

C. Construction Details:

1. The appropriate color, galvanized steel triangular guide rail delineator should be placed within the center of the depressed portion of the corrugated beam guide rail utilizing the existing 5/8" X 1 ¾" hex head steel full body bolt. The delineator bracket will be bolted between the flat plate washer and the front of the guide rail in accordance with the manufacturer's specifications and as directed by the Engineer.

D. Basis of Payment:

1. The unit price per each bid for this Item shall include all materials, labor, tools, equipment and incidentals necessary to complete the required work.

ITEM 525 (A, B, C, D) - FULL DEPTH PAVEMENT CLEANING AND RESEALING OF TRANSVERSE JOINTS IN PORTLAND CEMENT CONCRETE PAVEMENT

1. Description:

This work shall consist of cleaning and sealing transverse joints in existing concrete pavement at locations shown on the plans or as ordered by the Engineer.

2. Materials:

The sealant shall be an improved rubberized asphalt meeting the requirements of Federal Specification SS-S-1401B: Sealing Compound, Hot Applied, for Concrete and Asphalt Pavements. The sealant shall be accepted on the basis pf the manufacturer's certifications that it conforms to the requirements of Federal Specification SS-S-1401B.

The joint sealant shall be packaged in sealed containers. Each container shall be clearly marked with the name and address of the manufacturer, the trade name of the sealant, specification number, manufacturer's batch or lot number, date of manufacture, quantity in container, recommended pouring temperature, safe heating temperature (the highest temperature to which the sealing compound can be heated and still conform to the requirements of the specification), and application instruction.

3. Construction Details:

All pavement repairs called for on the plans must be completed, as specified in the appropriate item(s), prior to commencement of the sealing operation.

Pavement joints shall be prepared to a depth as detailed on the plans or as ordered by the Engineer. In all cases, preparation shall entail removal of all existing joint material, incompressibles, foreign materials and debris with a plow, router, wire brush, concrete saw, or other suitable tool approved by the Engineer and designed for the purpose of neatly cleaning pavement joints. During preparation of joints, care shall be taken so as not to damage the subgrade, curbs, shoulder load transfer devices at the joint, nor any pavement surfaces including repaired areas, joint sidewalls and adjacent lanes. Any damage shall be repaired as ordered by the Engineer at no cost to the County.

After the joint has been prepared as specified above, both faces of the joint shall be thoroughly cleaned by either sand blasting, or high pressure water blasting, to the depth of the bottom of the proposed sealer or as ordered by the Engineer. Immediately prior to the sealing, the joint shall be blown with a compressed air stream of at least 100 p.s.i.g., measured at the source, in order to remove all remaining dirt, sand and loose material and to provide dry joint surfaces prior to sealing. The Contractor is required, at all times while cleaning and/or blowing joints, to provide protection by means of screening to prevent damage to or interference with traffic in adjacent lanes. This method of screening is to be submitted to the Engineer for his approval prior to starting the operation.

The air compressors used for the purpose described above must be equipped with traps capable of removing moisture and oil from the air. Work shall be stopped when and if it is found that there is oil or moisture in the compressed air. Work shall not resume until suitable adjustments are made and the air stream is found to be free of such contaminants.

Under no conditions will the Contractor be permitted to place the sealant if there is dust, moisture, oil, or any foreign material on that portion of the concrete which is to receive the backup material or joint sealant.

Joint sealant material shall be heated in a kettle or melter constructed as a double boiler, with the space between the inner and outer shells filled with oil or other heat-transfer medium. Positive temperature control, mechanical agitation, and recirculation pumps shall be provided. Direct heating must not be used. Heating must be performed in strict accordance with the manufacturer's recommendations and the kettle or melter used shall be of a type approved by the material manufacturer. Reheating shall not be permitted unless permitted by the manufacturer.

The unit shall be provided with two separate thermometers; one of which to indicate the temperature of the heat-transfer medium and the other to indicate the temperature of the joint sealing material in the hopper.

Before any joint sealing operations shall commence, the Engineer will inspect the joint sealing apparatus to ascertain the presence of and the working condition of the thermometers. Under no conditions or circumstances will the Engineer permit any joint sealing if the thermometers are found to be defective or missing.

The temperature of the sealant at placement shall be the recommended pouring temperature. The allowable variance from the recommended pouring temperature shall be 10 degrees +.

The Contractor shall be responsible for a safe and efficient means and method by which the Engineer will be able to accurately measure the temperature of the sealant, as it is discharged from the applicator wand. The means and method used must be submitted to the Engineer for his approval before the commencement of joint sealing operations.

The Contractor shall provide the Engineer with two (18" stem) thermometers, in addition to the two thermometers on the machine and a surface thermometer for pavement temperature measurements. The temperature range of the thermometers shall be such that the range is sufficient to meet the requirements of this specification.

If heat losses of sufficient magnitude are incurred as the sealant passes through the discharge hose and applicator wand to make it impossible to maintain sealant discharge pouring temperatures within the specified range of this specification, the Contractor shall provide the discharge hose and applicator wand with a means of controlling the temperature loss. Any method to be used shall be approved by the Engineer.

Under no circumstances shall the temperature of the sealant in the hopper be brought tip to a temperature exceeding the Safe Heating Temperature of the sealant.

A copy of the manufacturer's recommendations pertaining to the heating and application of the material shall be submitted to the Engineer prior to the commencement of work, and these recommendations shall be adhered to and followed by the Contractor, with such exceptions as this specification may require.

The applicator wand shall be returned to the machine and the material recirculated immediately upon the completion of each joint sealing.

At no time shall the sealant remain in the discharge hoses and applicator wand in a non-circulating condition for a period of time exceeding 15 seconds.

The backup material/bondbreaker shall be stitched cotton piping cord. The diameter shall be such that when placed in the joint, it will; support the sealant at its proper depth, allowing the sealant to achieve the desired shape; prevent the sealant from leaking around and underneath it; and allow the sealant to deform freely when the joint expands and contracts.

The pavement at the joints to be sealed, shall be surface dry as judged by the Engineer. The temperature of the pavement shall not be less than 40 degrees F. as the sealer is poured. Similarly, the air temperature shall not be less than 40 degrees F. nor more than 75 degrees F. as the sealer is poured. Backup material shall be placed and joints shall be poured in a neat workmanlike manner and in accordance with the dimensions as detailed on the plans or as ordered by the Engineer. Care shall be taken not to overfill the joint space. Joint areas improperly sealed to the extent that the backup material and/or the sealant do not fall within the tolerances shown on the plans shall be resealed. The sealer and backup material shall be removed for the full lane width, the joint shall again be prepared and sealed in accordance with this specification.

This extra work shall be done by the Contractor at no additional cost to the County.

Prior to allowing traffic on the traffic lane, all sand and debris from the sandblasting and cleaning operations shall be removed from the pavement.

4. Method of Measurement:

This work will be measured by the number of linear feet of joints sealed.

5. Basis of Payment:

The unit price bid per linear foot shall include the cost of furnishing all labor, equipment, and materials as necessary to complete the work' as specified or as ordered by the Engineer. Damaged areas shall be repaired by the Contractor at no cost to the County.

The cost of resealing defective work shall be at the Contractor's expense and no additional payment will be made.

Note: Under these Items the Contractor will be paid under the following schedule for each Work Order:

525A	(0'- <1000')	Installed
525B	(1000'- <5000')	Installed
525C	(5000'- <10,000')	Installed
525D	(10,000' & over)	Installed

ITEM 526 (A, B, C, D) - CLEANING AND RESEALING OF LONGITUDINAL JOINTS IN PORTLAND CEMENT CONCRETE PAVEMENT

1. Description:

Under this item the Contractor shall clean and seal existing longitudinal joints in accordance with the plans, specifications and as ordered by the Engineer.

2. Materials:

Pourable Sealant - The sealant shall meet the requirements of Federal Specification SS-S-1401B; Sealing Compound, Hot Applied, for concrete and asphalt pavements. The sealant shall be accepted on the basis of the manufacturer's certification that it conforms to the requirements of Federal Specification SS-S-1401B. The joint sealant compound shall be packaged in sealed containers. Each container shall be clearly marked with the name and address of the manufacturer, the trade name of the sealant, specification designation, the manufacturer's batch and lot number, recommended pouring temperature, safe heating temperature (the highest temperature to which the sealing compound can be heated and still conform to the requirements of the specification), and application instruction.

Backup Material/Bondbreaker - The backup material/bondbreaker shall be stitched cotton piping cord. The diameter shall be such that when placed in the joint, it will: Support the sealant at its proper depth, allowing the sealant to achieve the desired shape, prevent the sealant from leaking around and underneath it, and allow the sealant to deform freely when the joint expands and contracts.

3. Construction Details:

Joint sealing shall be performed when the pavement temperature shall be above 40 degrees F, and the pavement shall be surface dry.

The removal of existing joint sealing material shall be performed using tools and methods meeting the approval of the Engineer. The material removed from the joints shall be disposed of by the Contractor in a manner approved by the Engineer.

The top 1 $^{1}/_{2}$" of both sides of the joint seal cavity shall have all adhesives and other foreign material removed by any method meeting the approval of the Engineer. Then the top 1 $^{1}/_{2}$" of the joint shall be thoroughly cleaned by use of a high pressure sand waterblaster, high pressure waterblaster, or compressed air sandblaster.

During all operations, care shall be taken not to damage the subbase, curbs, longitudinal joint ties, longitudinal joint keys, or pavement. In the event that such damage occurs, it shall be repaired to the satisfaction of the Engineer at no expense to the County. Any damage to the subbase shall be repaired by a method which meets the approval of the Engineer.

Immediately prior to the placement of the backup material and the sealant, the joints shall be cleaned with a compressed air stream of at least 100 psi measured at the source.

The air compressors used for the purpose described above must be equipped with traps capable of removing moisture and oil from the air. Work shall be stopped when and if it is

found that there is oil or moisture in the compressed air. Work shall not resume until suitable adjustments are made and the air stream is found to be free of such contaminants.

Under no conditions will the Contractor be permitted to place the sealant if there is dust, moisture, oil, or any foreign material on that portion of the concrete which is to receive the backup material or joint sealant.

The Contractor shall be responsible for protecting traffic from hazard or damage during the sand or waterblasting and joint cleaning operations. Rigidly supported plywood sheeting or other suitable material and methods used for this purpose will be subject to the approval of the Engineer.

The material shall be heated in a kettle or melter constructed as a double boiler, with the space between the inner and outer shells filled with oil or other heat-transfer medium. Positive temperature control, mechanical agitation, and recirculation pumps shall be provided. Direct heating shall not be used. Heating must be performed in strict accordance with the manufacturer's recommendation. Reheating shall not be permitted.

With the exception of the 'Field Extruder' type, all units shall have an engine driven agitator which wipes the bottom of the sealant vat.

The unit shall be provided with two separate thermometers; one of which is to indicate the temperature of the heat-transfer medium and the other to indicate the temperature of the joint sealing material in the hopper.

Before any joint sealing operations shall commence, the Engineer will inspect the joint sealing apparatus to ascertain the presence of and the working condition of the thermometers. Under no conditions or circumstances will the Engineer permit any joint sealing if the thermometers are found to be defective or missing.

The recommended pouring temperature shall be 10 degrees below the manufacturer's designated Safe Heating Temperature. The allowable variance from the recommended pouring temperature shall be 10 degrees +.

The Contractor shall be responsible for a safe and efficient means and method by which the Engineer will be able to accurately measure the temperature of the sealant, as it is discharged from the applicator wand. The means and method used must be submitted to the Engineer for his approval before the commencement of joint sealing operations. The Contractor shall provide the Engineer with two (18" stem) thermometers. The temperature range of the thermometers shall be such that the range is sufficient to meet the requirements of this specification.

If heat losses of sufficient magnitude are incurred as the sealant passes through the discharge hose and applicator wand to make it impossible to maintain sealant discharge pouring temperatures within the specified range of this specification, the Contractor shall provide the discharge hose and applicator wand with a controlled heating apparatus. This apparatus must be supplied by the manufacturer of the sealing apparatus, be fully compatible with it and be available for use as the need may arise.

Under no circumstances shall the temperature of the sealant in the hopper be brought up to a temperature exceeding the Safe Heating Temperature of the sealant sealantd sealant.

A copy of the manufacturer's recommendations pertaining to the heating and application of the sealant shall be submitted to the Engineer prior to the commencement of work, and these recommendations shall be adhered to and followed by the Contractor, with such exceptions as this specification may require.

The applicator wand shall be returned to the machine and the material recirculated immediately upon the completion of each joint sealing.

At no time shall the sealant remain in the discharge hoses and applicator wand in a non-circulating condition for a period of time exceeding 15 seconds.

The depth of the sealant shall be as shown in the plans.

If in the opinion of the Engineer, the Contractor displays an inconsistency in his ability to fill the joints to the dimensions shown on the plans, he shall order the Contractor to cease his operations until such time as he can comply with the required criteria in a consistent manner.

4. Method of Measurement:

This work will be measured by the number of linear feet of longitudinal joints sealed.

5. Basis of Payment:

The unit price bid per linear foot shall include the cost of furnishing all labor, equipment, and materials as necessary to complete the work as specified or as ordered by the Engineer. All damage to subbase, curbs, pavement, longitudinal joint ties and longitudinal joint keys shall be repaired to the satisfaction of the Engineer and at no cost to the County.

Note: Under these Items the Contractor will be paid under the following schedule for each Work Order:

526A (0'- <1000')	Installed
526B (1000'- <5000')	Installed
526C (5000'- <10,000')	Installed
526D (10,000' & over)	Installed

ITEM 527 (A, B, C, D) - CLEANING, FILLING AND SEALING EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT

1. Description:

Under this item the Contractor shall clean and seal existing joints and cracks in asphalt pavement in accordance with the specifications.

2. Materials:

The Polymer/Polyester Modified Asphalt Sealant is a homogeneous blend of high quality modified asphalt and polyester fibers supplied in blocks in polyethylene lined boxes.

The unique characteristics of the modified asphalt, including improved elasticity, adhesion and temperature susceptibility virtually eliminate bleeding during hot weather and greatly improves low temperature flexibility as compared to field mixed materials using AC-20 asphalt and fibers.

Physical Properties and Specifications Conformance:

The Polymer/Polyester Modified Asphalt Sealant contains 5%± by weight of polyester fibers blended with high quality modified asphalt cement.

Fiber Properties

Type	Polyester
Denier	3 to 5
Length	1/4 inch
Specific Gravity	1.38
Melt Temperature	478 deg. to 490 deg. F
Tensile Strength	78,000 to 88,000 PSI
Elongation at Break	35-38%

Modified Asphalt Properties

Penetration, 77 deg. F (ASTM D5)	100min
Softening Point (ASTM D36)	125 deg. F min
Ductility, 77 deg. F, 5cm/min. (ASTM D113)	100cm min
Ductility, 39.2 deg. F, 5cm/min. (ASTM D113)	50cm min
Flash Point (ASTM D92)	400 deg. F min

Property	Typical Results
Recommended Application Temperature	350 deg. F
Safe Heating Temperature	400 deg. F
Workability	Capable of being melted and applied through pressure feed indirect heated, agitated melter applicator units
Softening Point (ASTM D36)	180 deg. F min
Cone Penetration, 77 deg. F (ASTM D3407)	10-30
Ductility, 77 deg. F, 5cm/min (ASTM D113)	10cm min
Flexibility, 1", 10 deg.F, 90 deg. Bend, 10 sec.	Pass
Unit Weight at 60 deg. F	8.0 lbs/gal

Note: Material for softening point, penetration, ductility and flexibility is poured after heating to the safe heating temperature as specified by the manufacturer using ASTM D3407 procedures.

3. Construction Details:

Joint sealing shall be performed when the pavement temperature shall be above 40 degrees F, and the pavement shall be surface dry.

The removal of existing joint sealing material shall be performed using, a pavement router meeting the approval of the Engineer. The material removed from the joints shall be disposed of by the Contractor in a manner approved by the Engineer.

The Contractor shall clean and rout to a width of 1" and to a depth of 1/2". The cleaning and routing shall provide for the removal of all existing joint sealers and shall result it a clean vertical edge against which to place the new sealant.

Immediately prior to the placement of the sealant, the joints shall be cleaned with a compressed air stream of at least 100 p.s.i. measured at the source.

The air compressors used for the purpose described above must be equipped with traps capable of removing moisture and oil from the air. Work shall be stopped when and if it is found that there is oil or moisture in the compressed air. Work shall not resume until suitable adjustments are made and the air stream is found to be free of such contaminants.

Under no conditions will the Contractor be permitted to place the sealant if there is dust, moisture, oil, or any foreign material on that portion of the pavement which is to receive the joint sealant.

The Contractor shall be responsible for protecting traffic from hazard or damage during the joint cleaning operations. Rigidly supported plywood sheeting or other suitable material and methods used for this purpose will be subject to the approval of the Engineer.

Polymer/Polyester Modified Sealant must be melted in a double jacketed boiler type melting kettle which is equipped with both agitation and recirculation systems. Prior to applying the sealant, it should be heated to a temperature between the recommended pour temperature of 350F and 400F. Due to the high viscosity imparted by the fiber reinforcement, this sealant must be applied through pressure feed wand application systems with a wand tip which consists of a flat metal plate which is between 3 and 4 inches across and is attached at the end of the applicator wand. During sealant application, the banding attachment facilitates leveling of the polymer/polyester modified asphalt to a band approximately $^1/_8$" thick.

With the exception of the 'Field Extruder' type, all units shall have an engine driven agitator which wipes the bottom of the sealant vat.

The unit shall be provided with two separate thermometers; one of which is to indicate the temperature of the heat-transfer medium and the other to indicate the temperature of the joint sealing material in the hopper.

Before any joint sealing operations shall commence, the Engineer will inspect the joint sealing apparatus to ascertain the presence of and the working condition of the thermometers. Under no conditions or circumstances will the Engineer permit any joint sealing if the thermometers are found to be defective or missing.

The recommended pouring temperature shall be 10 degrees below the manufacturer's designated Safe Heating Temperature. The allowable variance from the recommended pouring temperature shall be 10° ±.

The Contractor shall be responsible for a safe and efficient means and method by which the Engineer will be able to accurately measure the temperature of the sealant, as it is discharged from the applicator wand. The means and method used must be submitted to the Engineer for his approval before the commencement of joint sealing operations. The Contractor shall provide the Engineer with two (18" stem) thermometers. The temperature range of the thermometers shall be such that the range is sufficient to meet the requirements of this specification.

If heat losses of sufficient magnitude are incurred as the sealant passes through the discharge hose and applicator wand to make it impossible to maintain sealant discharge pouring temperatures within the specified range of this specification, the Contractor shall provide the discharge hose and applicator wand with a controlled heating apparatus. This apparatus must be supplied by the manufacturer of the sealing apparatus, be fully compatible with it and be available for use as the need may arise.

Under no circumstances shall the temperature of the sealant in the hopper be brought up to a temperature exceeding the Safe Heating Temperature of the sealant.

A copy of the manufacturer's recommendations pertaining to the heating and application of the sealant shall be submitted to the Engineer prior to the commencement of work, and these recommendations shall be adhered to and followed by the Contractor, with such exceptions as this specification may require.

The applicator wand shall be returned to the machine and the material recirculated immediately upon the completion of each joint sealing. At no time shall the sealant remain in the discharge hoses and applicator wand in a non-circulating condition for a period of time exceeding 15 seconds. Joints should be filled in a neat workmanlike manner to adjacent pavement surface.

4. Method of Measurement:

This work will be measured by the number of linear feet of joints sealed.

5. Basis of Payment:

The unit price bid per linear foot shall include the cost of furnishing all labor, equipment, and materials as necessary to complete the work as specified or as ordered by the Engineer. All damage to subbase, curbs or pavement, shall be repaired to the satisfaction of the Engineer and at no cost to the County.

Note: Under these Items the Contractor will be paid under the following schedule for each Work Order:

527A (0'- <1000')	Installed
527B (1000'- <5000')	Installed
527C (5000'- <10,000')	Installed
527D (10,000' & over)	Installed

ITEM 540 - STEEL BOLLARDS

A. Description.

1. Furnish and install bollards in strict accordance with the approved manufacturer's printed directions utilizing the proper anchorage and attachments as designated by the manufacturer at the locations shown on the drawings or as directed by the Engineer.

B. Materials.

1. Submit complete and accurate shop drawings, catalog cuts, details or illustrated literature for the Engineer's approval. No installation shall be made prior to approval of the Engineer.

C. Installation.

1. Bollards shall be installed in accordance with the plans and specifications, manufacturer's recommendations, and as directed by the Engineer. No installation shall begin until shop drawings, catalog cuts, details or illustrated literature are submitted and approved by the Engineer.

D. Submittals.

1. Product Data: Shop drawings, catalog cuts, details, illustrated literature, specifications and installation instructions.

E. Method of Measurement.

1. The quantity to be measured for payment shall be the number of bollards installed in their entirety.

F. Basis for Payment.

1. The unit price bid per parking bumper shall include the cost of furnishing all labor, material, and equipment necessary to satisfactorily complete the work, to the acceptance of the Engineer/

ITEM 701 TO 710 - SPORTS FIELD LIGHTING SYSTEM

A. General Description.

1. Under this Item the Contractor shall furnish and install Sports Field Lighting Systems having pole heights between forty (40') and ninety (90') feet high and capable of supporting between two (2) and twelve (12) fixture heads in accordance with the Plans, Specifications and as directed by the Engineer.

B. The Intent of the Sports Field Lighting System is:

1. **Life Cycle Cost.** In order to reduce the operating budget, the preferred lighting system shall be energy efficient and cost effective to operate. All maintenance costs shall be eliminated, and the field(s) should be proactively monitored to detect fixture outages over a 25 year life cycle. To allow for optimized use of labor resources and avoid unneeded operation of the facility, customer requires a remote on/off control system for the lighting system.
2. **Environmental Light Control.** It is the primary goal of this project to not negatively impact this community with excessive spill light or glare.
3. **Guaranteed Light Levels.** Selection of appropriate light levels impact the safety of the players and the enjoyment of spectators. Therefore the lighting system shall be designed such that the light levels are guaranteed for a period of 25 years.
4. **Manufacturer.**
   a. The Sports Field Lighting System (The Light Structure Green System) shall be manufactured by Musco Sports Lighting, 100 1st Avenue West, PO Box 808, Oskaloosa, IA 52577 or an approved equal and consist of the listed equipment features herein specified.
5. **Materials.**
   a. All steel components shall be hot dip galvanized to the most current ASTM A-123 standards. High purity reflector grade aluminum shall be alzak finished. All other aluminum components shall be polyester or polyurethane powder coat painted and/or anodized to MIL-A-8625E specifications and coated with a clear thermoset polymer.
   b. All non-current carrying fasteners, hinges, and latches shall be stainless steel and cadmium plated or coated with a thermoset epoxy type organic coating such as Empigard to prevent galvanic interaction.

C. Warranty (Musco Item #TC5000 or Approved Equal)

1. The warranty shall consist of twenty-five (25) years parts and labor (5000 hours of lamp usage) with complete lamp replacement on all equipment.
   a. Each manufacturer shall supply a signed warranty covering the entire system for twenty-five (25) years. Warranty shall guarantee light levels; lamp replacements; system energy consumption; monitoring, maintenance and control services; spill light control; and structural integrity.
   b. Constant light level will be maintained within 10% of the design light levels for the duration of the warranty. Manufacturer shall maintain specifically-funded financial reserves to assure fulfillment of the warranty for the full term. Warranty

may exclude fuses, storm damage, vandalism, abuse, and unauthorized repairs or alterations.

ITEM 701 - GALVANIZED STEEL POLES (Musco Item #LSG-40 to LSG-90 or Approved Equal)

A. **Structural Design.** The stress analysis and safety factor of the poles shall conform to AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals.

B. **Wind Loading.** The wind load on the pole shaft and all attachments shall be determined based on IBC 2006, 110 mph basic wind speed with 50 year mean recurrence, exposure category C.

C. **Pole Material.** The pole shaft shall be constructed of low carbon, tapered tubular steel conforming to ASTM A595 Grade A or ASTM A572 Grade 65. A non-tapered section of pole conforming to ASTM A513 may be used at the top of the pole for attachment of the luminaire crossarms.

D. **Pole Cap.** A removable pole cap shall be provided to prevent moisture or foreign debris from entering the top of the pole. The pole cap shall be made from cast aluminum or iron. Aluminum pole caps shall have a supplemental coating of polyester or polyurethane powder coat paint, while cast iron pole caps shall be hot dip galvanized. The pole cap shall be secured to the pole top assembly with a single, 3/8" stainless steel bolt with a gasketed head to prevent moisture drainage on the inside of the pole top assembly. It shall further be secured by a stainless steel aircraft typed cable to prevent it from being misplaced during installation and to ensure it does not fall during removal for repair or service work.

E. **Pole Shaft Connections.** All connections of pole shafts shall be telescopic with a minimum overlap of 1.5 times the inner diameter of the upper shaft at the exposed end.

F. **Corrosion Protection.**
   1. The pole shaft and luminaire crossarms shall be hot dip galvanized after fabrication to conform to ASTM A123. To ensure a high quality galvanized coating with good adherence, all steel components used for the pole shaft, luminaire crossarm, and other attachments must be of a steel content that conforms to ASTM A385.
   2. All exposed steel components of the pole shall be at least 18" above final grade to avoid exposure of the steel to moisture and oxygen laden air present both above and below the surface. There shall be a pole cap to cover the top of the pole and covers for all access openings in the pole wall so that rain will not enter the pole.
   3. All fasteners and attaching hardware shall be stainless steel to conform to ASTM A153.

G. **Foundation Design. (Musco Item #PCB-40 to PCB-90 or Approved Equal)**
   1. The foundation design shall conform to 2006 IBC.
   2. **Precast Concrete Base.** The pole shall be supplied with a centrifugally cast, pre-stressed base constructed of 9,500 psi concrete capable of carrying the structural loads from the steel pole shaft. The upper end of the base shall be tapered to allow a telescopic connection to the steel pole shaft. Exposed ends of the prestressing

steel shall be epoxy coated for corrosion protection. 9500 psi concrete with 189 KIP pre stressed cables.

ITEM 702 - STEPS, SAFETY CABLE AND HARNESS WITH AUXILIARY BRACKETS (Musco Item #SSCHAB or Approved Equal)

A. **Safety Harness.** To provide for workers' safety during routine maintenance, an OSHA approved safety harness and climbing device assembly shall be supplied to the owner for use with safety cable assembly attached to the pole.

B. **Auxiliary Brackets.** One (1) auxiliary weldment, with blank plate on each pole, mounted at 25' above ground level on the non-field side.

ITEM 703A - REMOTE ELECTRICAL COMPARTMENT ENCLOSURES FACTORY WIRED NEMA 3R (Musco Item #RECE or Approved Equal)

A. **NEMA 3R.** The ECE shall be a NEMA 3R rated gasketed enclosure to house the ballasts, capacitors, fuses, circuit disconnect, and distribution lugs.

B. **Material.** ECE shall be constructed out of 0.080" thick 5052-H32 aluminum for high corrosion resistance and thermal conduction. Steel materials galvanized prior to fabrication will not be accepted.

C. **Coating.** ECE shall be coated with 1.5-2.5 mils of high thermally radiant polyester powder coat paint. Paint shall pass the following performance tests:

Method	Description	Value
ASTM D2794	Dir./Rev. Impact	120 in.-lbs./120 in.-lbs.
ASTM D522	Flexibility, Mandrell	1/8" Dia. (no fracture)
ASTM D3363	Pencil Hardness	3H
ASTM D3359	Cross Hatch Adhesion	5B (no loss)
ASTM B117	Salt Spray	1,000 hrs.

D. **Two Compartments.** The ECE shall be divided into two compartments. The upper compartment shall house the ballasts, capacitors, and fuses. The lower compartment shall provide for the circuit disconnect, distribution lugs, and connection of all circuits coming into and out of the ECE.

ITEM 703B - REMOTE ELECTRICAL COMPARTMENT ENCLOSURES FACTORY WIRED NEMA 3R (Musco Item #RECER or Approved Equal)

A. **Same as Item 711-03A, except that is Item is intended for relight equipment.**

ITEM 704 - WIRE HARNESSES (Musco Item #IWH13 or Approved Equal)

A. Wire Harnesses with pre-wired connectors and helium grip on top, abrasion guards and no more than 13 copper wires per harness.

1. **Strain Relief.** The wiring harness shall be supported at the top of the pole by a stainless steel wire mesh grip matched to the size of the harness. There shall be not more than 13 conductors supported by a single wire mesh grip. If harness is longer

than 65' an interim wire mesh grip support shall be located approximately halfway down the pole.

2. **Strain Relief Slippage**. The wire mesh grip shall be secured to the harness with a cable tie at the bottom of the grip to avoid slipping or loosening.
3. **Pole Attachment**. The wire mesh grip shall be mechanically attached to the pole to an enclosed mounting loop so that it cannot accidentally be removed in any direction.
4. **Spiral Winding**. The harness being supported by the wire mesh grip shall consist of multiple 14 gauge THHN conductors and shall be continuously spiral wound and bound with mylar wrap to prevent slippage on individual conductors within the wiring harness.
5. **Abrasion Protection Sleeving**. The wire harness shall be completely encased in flexible abrasion resistant sleeving to alleviate wear on the insulation of the conductors caused by abrading the interior of the pole. The wire harness sleeving shall begin no more than 32 inches from the top of the wire harness and end no more than 5 inches from the bottom of the wire harness. If additional wire mesh grips are provided, the sleeving shall begin no more than 4 inches above and below the grip.
6. **Labeling**. All wiring harness conductors shall be color coded and clearly labeled.
7. **Plug-Ins**. Each end of the wire harness shall be terminated into a plug-in with conductors sequenced consistent with the pattern of the wiring schematic provided by the manufacturer.

ITEM 705 - GALVANIZED STEEL CROSSARMS WITH FIXTURE HEADS (Musco Item #GSCRA or Approved Equal)

A. **Factory Construction**. The lamp and reflector mounting device shall be factory assembled to the crossarms and the crossarms shall be attached to a section of the pole by the manufacturer. The fixture heads shall be factory aimed and wired.

B. **Crossarm Welding**. Crossarms for the luminaire assembly shall be welded to the pole section before galvanizing by American Welding Society certified welders. Any additional fasteners used for the attachment of accessories to the crossarm shall be stainless steel and cadmium plated or coated with Empigard or equivalent. All weld joints utilized will be pre-qualified per the American Welding Society or qualified by an AWS certified inspector or testing firm.

C. **Structural Strength**. To assure continued alignment of the critical aiming of luminaires and to avoid wind damage to the crossarm or its components, the crossarm, reflector, and its attachment to the pole shall be designed to withstand winds of 150 mph with a 1.3 gust factor. Luminaires shall be attached to the crossarm by a minimum of two bolts. To assure long term durability the bolts shall be stainless steel. To avoid corrosive reaction to adjacent material the stainless material shall be Empigard coated. Also to protect against potential corrosive conditions there shall be no penetrations of top or sides of the crossarms.

ITEM 706 - LENS FOR REFLECTORS (Musco Item #RLS or Approved Equal)

A. **Lens.** A removable lens of impact and thermal resistant glass with silicone gasket shall be centered in a stainless steel lens rim and attached to the reflector with a minimum of four hardened stainless steel clamps. The lens shall further be secured to the reflector with a hinged cable or chain to prevent it from falling after removal during relamping or servicing.

ITEM 707 - SPILL AND GLARE CONTROL REFLECTORS (Musco Item #SCG or Approved Equal)

A. **Reflector and Lamp Supports.** The reflector shall be fastened to the lamp cone utilizing six (6) #10 stainless steel screws. A reinforcing retaining ring fabricated from fiberglass with a supplemental heat resistant and heat reflective coating shall be used to center and stabilize the lamp in the reflector and provide a shield to protect the lamp socket from heat.

TEM 708 - 1500 WATT METAL HALIDE Z LAMPS (Musco Item #1500 WMH or Approved Equal)

ITEM 709 - LIGHTING CONTACTOR CABINETS NEMA 43 (Musco Item #N4LCC or Approved Equal)

A. **Enclosure Cabinet**. To provide protection against corrosion, the contactor cabinet shall be NEMA 4X rated gasketed enclosure fabricated from 5052 H32 quality aluminum that is at least .080 thick. The enclosure shall be further coated with a polyurethane powder coat paint after fabrication to provide protection from oxidation of the aluminum.
B. **Cabinet Door**. For safety of personnel and equipment, door shall be electrically bonded to the cabinet enclosure. Cabinet door shall utilize a lockable, 3 point latching assembly that provides a NEMA 4 rated seal.
C. **Subpanel.** Built-to-order subpanel shall be fabricated from 5052 H32 quality aluminum that is at least 0.10" thick. The panel shall be pre-punched to specific contactor configurations and further coated with a polyester powder coat paint. Panel shall be electrically bonded to the exterior enclosure.
D. **Manual Off-On-Auto Selector Switches (LCC Mounted Option.** For on-site manual control, three position selector switches (Off-On-Auto) shall be factory mounted through the Lighting Contactor Cabinet door. The switches shall be keyed and maintain position, with make-before-break contacts. A legend plate shall clearly identify the zone and position of each switch. Switches shall be factory wired to the control terminal blocks.
E. **Remote Lighting Control System.** This includes the remote lighting control system suitable for control of remote equipment using a nationwide network. Software features are tailored to control equipment in parks and recreation facilities but not limited to these applications. The remote controllers shall be suitable for control of electrical equipment in multiple locations.

F. Standards.

1. There shall be only one contactor per circuit.
2. The lighting control system shall be UL listed under UL916 – Energy Management Equipment.
3. All lighting control equipment shall be in compliance with FCC Emission Standards specified in Part 15 Subpart J for Class A applications.
4. Each element of the Control Link system is subject to FCC rules and will comply with the rules prior to delivery.

G. Customer Support Services. The system shall allow for transmission of the schedule via Internet to minimize communication costs.

1. Reports confirming the operating schedules per site and per user shall be made available via the Internet.
2. Commissioning. The manufacturer shall supply factory authorized representatives to start up all equipment and demonstrate full compliance with this specification. They shall verify that the contractor has properly installed and interconnected all supplied components. The manufacturer shall train the owner's representatives on the remote equipment controllers, including all user functions.
3. Website scheduling and training. Manufacturer shall maintain and support a basic website specific to this system where the owner can access and effect schedules and download user manuals.
4. Technical support. Technical help via telephone shall be available 24 hours per day, 7 days per week.

H. Remote Equipment Controller. The lighting control manufacturer shall provide factory assembled, tested, and burned in remote controllers with the following features at a minimum:

1. Communication and processor modules which will accept messages and store on/off commands.
2. Each remote controller shall incorporate relay output signals of the appropriate type, rating, and quantity to control the lighting contactors as shown in the plans and specifications.
3. Each relay output shall be individually controlled; it shall be the responsibility of the lighting control manufacturer to provide a sufficient number of relay outputs at each location to fulfill the operational requirements specified on the plans.
4. Operating ambient temperature range: -40°C to 85°C.
5. Field replaceable electronic assemblies.
6. Each controller shall consist of:
   a. NEMA 4X enclosure with locking cover which shall contain all electronic equipment and contain no knockouts.
   b. Chassis. The chassis shall be pre-assembled and contain all relays, electronic circuit boards and the power supply. Controller chassis shall include:
      1) Manual override momentary switches shall provide individual control over each of the 8 relay circuits. A group of 8 – 2 position dip switches will provide input to the microbased firmware to define the failsafe state each output relay

will enter after power fail. This is based upon how the relay output is wired, NO or NC.

c. Relay control module with six (6) relays.
d. Power supply security. Panels shall have lockable doors.

ITEM 710 - MOUNTING HARDWARE TO RETROFIT EXISTING STEEL POLE (Musco Item #WAHRD or Approved Equal)

A. Material.

1. Wrap around mounting hardware to attach relight cross arm and remote electrical enclosure to existing steel pole.
2. Top and bottom for each are needed.
3. 1 set of 4 brackets per pole.

METHOD OF MEASUREMENT:

Item 701 thru 709 – The quantity to be paid for under this item shall be the number of each item furnished and installed to the satisfaction of the Engineer.

Item 710 – Same as above except each set.

BASIS OF PAYMENT:

All costs associated with the furnishing and installation of the Sports Field Lighting System, including but not limited to all labor, material, equipment, underground wiring, electrical compartment enclosures, except energizing of the system shall be paid for under this item.

Energizing the system from the nearest power supply point shall be paid for under the Force Account Work Item 744.

ITEM 711 - OUTDOOR ELECTRONIC MULTI-SPORT SCOREBOARDS

A. Description.

1. Under this Item, the Contractor shall furnish all labor, tools, materials and equipment necessary to install in place, Outdoor Electronic Multi-Sport Scoreboards suitable for football, soccer and lacrosse in accordance with the Plans, Specifications and as directed by the Engineer.

B. Materials.

1. **Model.** Outdoor Electronic Multi-Sport Scoreboard Model 3515 as manufactured by Nevco, 301 East Harris Avenue, Greenville, Illinois 62246; (800) 851-4040; www.nevco.com or approved equal.
   a. **Aluminum Faces and Perimeter Frame.** Fabricated from 0.050 minimum thickness, ASTM B221 aluminum sheet with reinforcement and slotted mounting brackets top and bottom.
   b. **Finish.** Acrylic polyurethane paint. Color as selected by the County from Manufacturer's standard range: Desert Tan, Electronic Blue, Maroon, Forest Green, Print Black, Silver Gray, Golden Yellow, Team Orange, Cardinal Red, Medium Purple, Teal Blue, Midnight Blue, Royal Blue, Navy Blue, Kelly Green. Provide white striping to separate scoreboard features.
   c. **Brackets.** S and J brackets fabricated from 5/16 inch minimum thickness steel plate for support and attachment of scoreboards to support framing.
   d. Fasteners, anchors, and other exposed hardware shall be corrosion resistant.
   e. **Electronics.** Low voltage, solid state, 2-wire cable, multiplex system, quartz crystal controlled.
   f. Provide gold plated electrical contacts on interconnecting wiring to reduce corrosion and improve reliability.
   g. Provide fiber optic communication interface to reduce threat of damage from electrical storms and ESD.
   h. **LED Units.** Seven-bar, segmented digits with protective aluminum cover, rated typical life 100,000 hours and designed to provide excellent visibility from all angles and sides.
   i. **Junction Boxes.** Sheet metal box and cover, 4-1/2" x 2-1/8" x 2-1/8" minimum complying with NEMA standards as required.
   j. **Control Cable.** UL listed, 2-wire, RG-58/U, coaxial cable, 1/4 inch diameter.
2. **Scoreboard.**
   a. **Type.** Exterior, electronic football scoreboard with integral horn and LED displays for time, scores, quarter, down, yards to go, ball location, and ball possession.
   b. **Size.** 24 feet long x 8 feet high x 8 inches deep.

c. **Approximate Weight.** 480 pounds.

d. **White on Black Captions.** 15 inches high: "HOME", "GUESTS", "QTR", "DOWN", "YDS TO GO", and "BALL ON".

e. **High Intensity Red LED Displays.**

1) 24 inches high digits: Time in minutes and seconds separated by colon, quarter, scores, down, yards to go, and ball location.

f. High intensity red LED ball possession or hit/run and indicators: One football shaped indicator per team.

g. **Power Requirements.** 120/240 volts, 2.8/1.4 amps, with ETN 3.5/1.8 amps.

h. Provide optional conversion caption plates for:

1) Baseball: "INN", "OUT", "BALL", "STRIKE", "AT BAT", "H", and "E".
2) Soccer: Two "SHOTS".

3. **Control Center**

a. **Type.** Handheld wireless, basic, AA battery operated, sport specific, control center with receiver unit mounted at scoreboard; Model MPCX as manufactured by Nevco.

b. Unit shall comply with Part 15 of FCC Rules and Regulations.

c. **Control unit.** High impact, break-resistant black ABS plastic Size: 3-1/4" x 5-1/2" x 7/8".

d. **Features.**

1) Wireless operation within 1000 feet.
2) Operate multiple scoreboards simultaneously.
3) System allows multiple controllers to link to individual scoreboards.
4) High visibility LCD display with a sealed keyboard.
5) Long battery life with indicator; include two AA batteries.
6) Single hand operation with a no slip grip.
7) Built-in belt clip.
8) Wireless signal strength meter and internal antenna.
9) **Receiver.** Injection molded case, 5-1/2" by 3-3/4" by 2" mounted at scoreboard.
10) **Maximum Range.** 1,000 feet from control center to receiver.
11) **Power Adapters.** Provide for each scoreboard receiver.
    a) Input: 120 volts, 0.4 amps, 50/60 Hz.
    b) Output: 9 volts, 1.67 amps, 15 watts.

e. Provide carrying case for up to two control centers, Model CC-4 as manufactured by Nevco.

f. **Size.** 18-1/2" x 14-1/2" x 6".

g. **Construction.** Double wall, high density black polyethylene with padded interior, mechanical latches, and hinges.

h. Provide suitable, RF transparent, NEMA 4 enclosure for receiver, to be located

upon scoreboard supporting structure per installation diagrams.

C. Construction Details.

1. **Preparation.**
   a. Verify exact scoreboard and control center quantities and junction box locations with County.
   b. Coordinate requirements for electrical power and other components to be provided under Force Account Work to ensure adequate provisions are made for complete, functional installation of scoreboards.
   c. Coordinate scoreboard electrical requirements to ensure proper power source, conduit, wiring, and boxes are provided. Prior to installation, verify type and location of power supply.
2. **Installation.**
   a. Install scoreboards and accessories in accordance with manufacturer's instructions and approved installation drawings.
   b. Before installation, field test scoreboards and accessories for operating functions. Ensure that scoreboards accurately perform all operations. Correct deficiencies.
   c. Rigidly mount scoreboards and accessories level and plumb with brackets and fasteners.
   d. Clean exposed surfaces.
   e. Protect scoreboards and finishes from other construction operations.
   f. Supports Posts and Concrete Foundations.
      1) Supports posts shall consist of two (2) - 8 5/8" O.D. black powder coated Schedule 40 posts
      2) Supports posts shall be set plumb in 30" diameter by 60" deep concrete footings. All footing tops shall be crowned with a 1" slope to shed water.
      3) The concrete shall conform to and be paid for under Item 17A, Class A concrete 1-2-4 mix.
      4) Excavation and backfilling for the foundations are included hereunder.
3. **Demonstrating and Training.**
4. Provide demonstration and training session for Owner's representative covering operation and maintenance of electronic scoreboard.

D. Manufacturer's Warranty.

1. Warranty to cover defects in materials and workmanship.
   a. Five (5) years parts and factory labor guarantee for scoreboards and accessories from invoice date.
   b. Two (2) years part and factory labor guarantee for wireless controls and receivers from invoice date.
   c. Lifetime telephone support.

E. Measurement and Payment.

1. The quantity to be paid for under this Item shall be the actual number of Outdoor Multi-Sport Scoreboards furnished and installed in accordance with the Plans, Specifications and as directed by the Engineer.
2. The unit price bid for each shall include the cost of all labor, materials, tools, equipment, and other incidentals necessary to satisfactorily complete the required work.

ITEM 712 - OUTDOOR ELECTRONIC BASEBALL SCOREBOARDS

A. Description.

1. Under this Item, the Contractor shall furnish all labor, tools, materials and equipment necessary to install in place, Outdoor Electronic Baseball Scoreboards in accordance with the Plans, Specifications and as directed by the Engineer.

B. Materials.

1. **Model.** Outdoor Electronic Multi-Sport Scoreboard Model 1535 as manufactured by Nevco, 301 East Harris Avenue, Greenville, Illinois 62246; (800) 851-4040; www.nevco.com or approved equal.
   a. **Aluminum Faces and Perimeter Frame.** Fabricated from 0.050 minimum thickness, ASTM B221 aluminum sheet with reinforcement and slotted mounting brackets top and bottom.
   b. **Finish.** Acrylic polyurethane paint. Color as selected by the County from Manufacturer's standard range: Desert Tan, Electronic Blue, Maroon, Forest Green, Print Black, Silver Gray, Golden Yellow, Team Orange, Cardinal Red, Medium Purple, Teal Blue, Midnight Blue, Royal Blue, Navy Blue, Kelly Green. Provide white striping to separate scoreboard features.
   c. **Brackets.** S and J brackets fabricated from 5/16 inch minimum thickness steel plate for support and attachment of scoreboards to support framing.
   d. Fasteners, anchors, and other exposed hardware shall be corrosion resistant.
   e. **Electronics.** Low voltage, solid state, 2-wire cable, multiplex system, quartz crystal controlled.
   f. Provide gold plated electrical contacts on interconnecting wiring to reduce corrosion and improve reliability.
   g. Provide fiber optic communication interface to reduce threat of damage from electrical storms and ESD.
   h. **LED Units.** Seven-bar, segmented digits with protective aluminum cover, rated typical life 100,000 hours and designed to provide excellent visibility from all angles and sides.
   i. **Junction Boxes.** Sheet metal box and cover, 4-1/2" x 2-1/8" x 2-1/8" minimum complying with NEMA standards as required. Control Cable. UL listed, 2-wire, RG-58/U, coaxial cable, 1/4 inch diameter.
2. **Scoreboard.**
   a. **Type.** Exterior, electronic baseball scoreboard with LED displays for inning, scores, balls, strikes, and outs and LED indicators for hit and error.
   b. **Size.** 16 feet long x 6 feet high x 8 inches deep.
   c. **Approximate Weight.** 255 pounds.
   d. **White on Black Captions.**

1) 10 inches high: "HOME", "GUESTS", "INNING", "BALL", "STRIKE", "OUT", "H", and "E".

e. **High Intensity Red LED Displays.**

1) 18 inches high digits: Scores, inning, balls, strikes, and outs.

2) Circular indicators for hit and error.

f. **Power Requirements.** 216 Watts MAX w/ETN's. 100-240 volts, AC 50/60 Hz. Requires earth ground.

3. **Control Center**

a. **Type.** Handheld wireless, basic, AA battery operated, sport specific, control center with receiver unit mounted at scoreboard; Model MPCX as manufactured by Nevco.

b. Unit shall comply with Part 15 of FCC Rules and Regulations.

c. **Control unit.** High impact, break-resistant black ABS plastic Size: 3-1/4" x 5-1/2" x 7/8".

d. **Features.**

1) Wireless operation within 1000 feet.
2) Operate multiple scoreboards simultaneously.
3) System allows multiple controllers to link to individual scoreboards.
4) High visibility LCD display with a sealed keyboard.
5) Long battery life with indicator; include two AA batteries.
6) Single hand operation with a no slip grip.
7) Built-in belt clip.
8) Wireless signal strength meter and internal antenna.
9) **Receiver.** Injection molded case, 5-1/2" by 3-3/4" by 2" mounted at scoreboard.
10) **Maximum Range.** 1,000 feet from control center to receiver.
11) **Power Adapters.** Provide for each scoreboard receiver.
    a) Input: 120 volts, 0.4 amps, 50/60 Hz.
    b) Output: 9 volts, 1.67 amps, 15 watts.

e. Provide carrying case for up to two control centers, Model CC-4 as manufactured by Nevco.

f. **Size.** 18-1/2" x 14-1/2" x 6".

g. **Construction.** Double wall, high density black polyethylene with padded interior, mechanical latches, and hinges.

h. Provide suitable, RF transparent, NEMA 4 enclosure for receiver, to be located upon scoreboard supporting structure per installation diagrams.

C. Construction Details.

1. **Preparation.**

a. Verify exact scoreboard and control center quantities and junction box locations with County.

b. Coordinate requirements for electrical power and other components to be provided under Force Account Work to ensure adequate provisions are made for complete,

functional installation of scoreboards.

c. Coordinate scoreboard electrical requirements to ensure proper power source, conduit, wiring, and boxes are provided. Prior to installation, verify type and location of power supply.

2. **Installation.**

a. Install scoreboards and accessories in accordance with manufacturer's instructions and approved installation drawings.

b. Before installation, field test scoreboards and accessories for operating functions. Ensure that scoreboards accurately perform all operations. Correct deficiencies.

c. Rigidly mount scoreboards and accessories level and plumb with brackets and fasteners.

d. Clean exposed surfaces.

e. Protect scoreboards and finishes from other construction operations.

f. Supports Posts and Concrete Foundations.

1) Supports posts shall consist of two (2) - 6 5/8" Black Powder Coated Schedule 40 Galvanized Steel Posts.

2) Supports posts shall be set plumb in 24" diameter by 60" deep concrete footings. All footing tops shall be crowned with a 1" slope to shed water.

3) The concrete shall conform to Item 17A, Class A concrete 1-2-4 mix and be paid for under that item.

4) Excavation and backfilling for the foundations are included hereunder.

3. **Demonstrating and Training.**

4. Provide demonstration and training session for Owner's representative covering operation and maintenance of electronic scoreboard.

D. Manufacturer's Warranty.

1. Warranty to cover defects in materials and workmanship.

a. Five (5) years parts and factory labor guarantee for scoreboards and accessories from invoice date.

b. Two (2) years part and factory labor guarantee for wireless controls and receivers from invoice date.

c. Lifetime telephone support.

E. Measurement and Payment.

1. The quantity to be paid for under this Item shall be the actual number of Outdoor Multi-Sport Scoreboards furnished and installed in accordance with the Plans, Specifications and as directed by the Engineer.

2. The unit price bid for each shall include the cost of all labor, materials, tools, equipment, and other incidentals necessary to satisfactorily complete the required work.

ITEM 713 - INTEGRATED FOOTBALL AND SOCCER GOAL SETS - ONE PAIR

A. Description.

1. Under this Item, the Contractor shall furnish and install two football goal post sets complete with uprights and goal post pads and soccer goal sets complete with anchoring system, mobility kit and safety system as described in the following Specification, as shown on Plans and/or as directed by the Engineer.

B. Submittals.

1. Submit two copies of manufacturer's shop drawings, installation instruction and maintenance procedures if applicable.

C. Materials.

1. The Contractor shall install a #SG4980HS (#SG4900 - Square Soccer Posts) or #SG4985HS (#SG4950 - Round Soccer Posts) High School Football and Soccer Goal Sets as manufactured by Sportsfield Specialties Inc., P.O. Box 231, 41155 State Highway 10, Delhi, New York 13573; Phone: (888) 975-3343; Fax: (607) 746-8481 or approved equal and shall consist of the following:

   a. Football Goal Post Sets

      1) Gooseneck Support - #4285 fabricated of 6 ⅝" O.D. Schedule 40 aluminum pipe, 5 foot radius, 8 foot offset
      2) Crossbar - #4231 fabricated of 6 ⅝" O.D. x 23'-4" long Schedule 40 aluminum pipe with internal rotating sleeve for upright adjustment
      3) Uprights - #4226 fabricated of 4" O.D. x 20'-0" long extruded 6061 T6 aluminum tube with rigid wire loop at upper end.
      4) Above items to be powder coated yellow
      5) Ground Sleeve - #4212, 8 ⅝" O.D. x 5'-0" long Schedule 40 steel pipe
      6) Access Frame Kit - #4570 fabricated of 1/8" thick aluminum, 8" high x 22 3/8" square with eight anchor bolts.
      7) Full Cover Plug - #4521 fabricated of ½" in pressure treated plywood and 3/16" aluminum hardware.
      8) Half Cover Plug - #4544 fabricated of ½" in pressure treated plywood and 3/16" aluminum hardware.
      9) Stainless steel assembly bolts, nuts and roll pins.
      10) Directional wind flags.
      11) Yellow Touch-up paint

   b. #SG4900 Square Post Soccer Goals or #SG4950 Round Post Soccer Goals.

      1) Crossbar fabricated of 6061 T6 extruded aluminum tube - Choose a) or b)

         a) #SG4900: 4" square × 3/16" thick with radiused outside corners

b) #SG4950: 4 3/8" square × 3/16" thick with 4 11/16" round face and backside radiused backside corners.

c) Length. 24 feet

d) 7 Gauge Steel Crossbar Attachment Brackets

2) End Frame - #4901 fabricated of 6061 extruded aluminum tube having the following attributes.

a) Corner Upright Posts.

(1) #SG4900: 4" square × 3/16" thick with radiused outside corners

(2) #SG4950: Corner Upright Posts, 4 3/8" square × 3/16" thick with 4 11/16" round face and backside radiused backside corners.

b) Rolled Side Frame, 2"×3"×1/8" with radiused outside corners, Tig Welded to Corner Upright Posts

3) Ground Bar fabricated of 6061 T6 extruded aluminum tube, 2" square × ¼" thick

4) Above items to be powder coated white

5) Accessories

a) Welded aluminum net clips

b) Orange polypropylene soccer net

c) Associated stainless steel hardware

c. Soccer Goal Portable Wheel Mobility Kit.

1) #SG4905 for Square Post or #SG4955 Round Post Soccer Goals

2) Soccer goal wheel insert.

a) Welded 13 gauge stainless steel frame

b) UHWM plastic wheel

c) All stainless steel hardware

3) Soccer goal mobility handle.

a) Welded stainless steel frame

b) All stainless steel hardware

c) Powder coated white

d. #SG2SGP - Soccer Goal Safety System for square or round post

1) Fabricated of ¼" Aluminum

2) Powder coated white

3) Stainless steel assembly hardware

e. #4516 - Access Frame Kit

1) Fabricated of 1/8" thick x 22 ¼" square x 6" high aluminum

2) Filler Plugs fabricated of ½" pressure treated plywood and 3/16" aluminum.

3) Stainless steel assembly hardware and galvanized steel anchoring hardware

f. Football Goal Post Pads

1) #4590 6 ⅝" I.D. Split Cylindrical, Urethane Foam Core, External Vinyl Only or

2) #4590H 6 ⅝" I.D. Hex, Urethane Foam Core Exterior and Interior Vinyl

2. Vinyl Laminated Polyester Fabric, 18 oz./square yard Minimum Weight

a. 72" minimum height

b. Full length hook & loop closure strip

c. Two Tie Cords, Top and Bottom (#4590 Only)

d. Standard colors are Blue, Gray, White, Black, Red, Green and Purple

e. The concrete shall conform to Item 17A, Class A concrete 1-2-4 mix and be paid for under that item.

D. Construction Details.

1. The Contractor shall install all these components as per manufacturer's specifications, instructions and requirements.

2. The Soccer goals must come with two soccer nets and the Football goal posts must come with four directional flags. Any specialized equipment and all instructions that come with the equipment must be provided to the County.

E. Measurement and Payment.

1. The quantity to be paid for under this Item shall be the number of pairs of football goal post sets complete with uprights and goal post pads and soccer goal sets complete with anchoring system, mobility kit and safety system sets furnished and installed. The unit bid price shall include, but not be limited to all necessary labor, materials, concrete, reinforcing, tools, supplies, equipment and incidentals necessary to complete the work.

ITEM 714 - LACROSSE GOALS - ONE PAIR

A. Description.

1. Under this Item, the Contractor shall furnish and install two Lacrosse goals as described in the following Specification, as shown on Plans and/or as directed by the Engineer.

B. Submittals.

1. Submit two copies of manufacturer's shop drawings, installation instructions and maintenance procedures, if applicable.

C. Materials.

1. The Contractor shall furnish and install #LG090 - Lacrosse Goal as manufactured by Sportsfield Specialties Inc., P.O. Box 231, 41155 State Highway 10, Delhi, New York 13573; Phone: (888) 975-3343; Fax: (607) 746-8481 or approved equal and shall consist of the following:
   a. Frame.
      1) Uprights and top bar fabricated of 1.50 inch schedule 40 aluminum pipe, Tig welded with aluminum welded net clips.
   b. Ground Bar.
      1) Fabricated of ½" Steel Bar, Tig welded with welded Steel Net Clips
   c. Above items to be powder coated orange.
   d. Ground sleeve kit.
      1) Fabricated of 1 5/8" O.D. x 18" long inch Schedule 40 Aluminum Pipe.
      2) Ground Sleeve Insert fabricated of 1 5/8' O.D. steel round stock.
      3) Stainless steel assembly hardware.
   e. Standard white nylon net.

D. Construction Details.

1. The Contractor shall install all the Lacrosse goal components as per manufacturer's specifications, instructions and requirements.
2. Any specialized equipment and all instructions that come with the equipment shall be provided to the County.

E. Measurement and Payment.

1. The quantity to be paid for under this Item shall be the number of pairs of Lacrosse goals furnished and installed. The unit bid price shall include, but not be limited to all necessary labor, materials, concrete, reinforcing, tools, supplies, equipment and incidentals necessary to complete the work.

ITEM 715 - INSTALLATION OF CLAY SURFACE AREAS

A. Description.

1. Under this Item, the Contractor shall furnish all labor, tools, materials and equipment necessary to install clay surface areas as shown on Plans or directed by the Engineer.

B. Submittals.

1. Provide clay soil analysis for approval by the County's Representative.
2. Provide shop drawings for synthetic turf/clay soil boundary separation.
3. Provide two (2) 8 ounce containers of soil for approval.

C. Materials.

1. The clay material shall be "Best Top" or approved equal. The percentage of clay shall be 12-20% with the following gradation:

Particle Size	Sieve	% Passing
4.75 mm	4 mesh	98.4%
0.59 mm	30 mesh	72.0%
0.30 mm	50 mesh	45.0%
0.14 mm	100 mesh	22.2%
0.50 um	270 mesh	14.6%

D. Construction Details.

1. The Contractor shall remove six (6") inches of existing material and install six (6") inches of clay material. The Contractor may be requested to remove additional existing material to provide suitable foundation for clay material, as directed by the Engineer. Additional material removal, beyond the six (6") inch excavation, shall be paid for under Item 2, Unclassified Excavation. In the event that excess material is removed by direction of the County's representative, the Contractor will be directed to install additional Item 5C, Selected Fill to bring the subgrade to the proper elevation and shall be paid under that item.
2. The Contractor shall ensure a straight and true finish and ensure that no settlement takes place.
3. Contractor shall install the specified perimeter edge nailer around the perimeter/boundary of the clay area. The synthetic turf is to wrap around the perimeter edge nailer and provide a clean, defined edge between the synthetic turf and the clay surface. This portion of work shall be paid for under appropriate Item for perimeter edge nailer.

E. Measurement and Payment.

1. The quantity to be paid under this Item shall be the number of cubic yards of clay material as measured in place. The unit bid price shall include, but not be limited to all necessary labor, materials, tools, supplies, equipment and incidentals necessary for completion of the work.

ITEM 716 - PITCHER'S MOUND AND BASE SETS

A. Description.

1. Under this Item, the Contractor shall furnish and install pitcher's mound, three bases and home plate as shown on Plans or as directed by the Engineer.

B. Submittals.

1. Submit two copies of manufacturer's shop drawings, installation instructions and maintenance procedures, if applicable.

C. Materials.

1. **Pitcher's Rubber**
   a. The Pitcher's Rubber shall be 6"×24" and constructed of durable heavy duty rubber.
   b. Anchoring the Pitcher's Rubber shall be accomplished in accordance with the manufacturer's recommendations.
2. **Three Bases**
   a. Each base shall consist of a three component system.
   b. Base tops shall be selected based on the field size to appropriately accommodate youth, teen or adult players and constructed using a heavy gauge rubber cover over high density foam interior.
   c. The base top shall rest on top of a base plate, which in turn shall connect to an anchoring system. Anchoring of the base plate shall be accomplished in accordance with the manufacturer's recommendations.
3. **Home Plate**
   a. Home Plate shall be the "bury-all" style and constructed from durable all-rubber with no corners or edges to catch spikes.

D. Construction Details.

1. The Contractor shall meet all of the manufacturer's requirements for the installation of the bases, pitcher's mound and home plate.
2. When applicable, the Contractor shall make provisions during the installation of the field's manifold underdrain system, base stone bed and finishing stone to accommodate the installation of the above baseball field accessories in accordance with the manufacturer's recommendations.

E. Measurement and Payment.

1. The unit price bid for each set of pitcher's mound, three bases and home plate shall include the cost of all materials, labor, tools, equipment and incidentals necessary to complete the work in accordance with the manufacturer's recommendations, specifications, Plans and/or as directed by the Engineer

ITEM 717 - ALUMINUM PLAYERS' BENCHES

A. Description.

1. Under this Item the Contractor shall furnish and install Aluminum Players' Benches without back rests as shown on the Plans, as herein specified and as directed by the Engineer.

B. Materials.

1. The Contractor shall install LG-ALBCH010, LG-ALBCH015 and/or LG-ALBCH021 aluminum players' benches without back rests as manufactured by Sportsfield Specialties Inc., P.O. Box 231, 41155 State Highway 10, Delhi, New York 13573; Phone. (888) 975-3343; Fax. (607) 746-8481 or approved equal.
2. Frame and Bench Supports: The bench supports shall be fabricated from two (2") inch x two (2") inch x one-eighth (1/8") inch square aluminum tubing. The frame and bench supports shall be powder coated black.
3. Planking: All horizontal slats shall be fabricated from a 10" wide aluminum extrusion. The planking shall be powder coated black.
4. The upright supports shall be anchor bolted into concrete footings as per the manufacturer's specifications.
5. Concrete for bench support footings shall meet the requirements of Class A Concrete, except for payment which shall be included under this Item.

C. Construction Details.

1. The bench standards shall be set in concrete with supports vertical and true to line and position as shown on the Plans, or as directed by the Engineer.

D. Method of Measurement.

1. The quantity to be paid for under this Item will be the number of aluminum players' benches without back rests installed in accordance with the Plans, Specifications, and directions of the Engineer.

E. Basis of Payment.

1. The unit price bid for each ballfield players bench system shall include the cost of all labor, materials, and incidentals to complete the work including but not limited to excavation, placement of concrete footings, backfill/restoration, if any, placement of two benches, standards, hardware, concrete pad and all expenses necessary to complete the work.

ITEM 718 - FOUL POLES - ONE PAIR

A. Description.

1. Under this Item, the Contractor shall furnish and install foul poles as shown on Plans or as directed by the Engineer.

B. Submittals.

1. Submit two copies of manufacturer's shop drawings, installation instructions and maintenance procedures, if applicable.

C. Materials.

1. The Contractor shall furnish and install BSPOLE as manufactured by BSN Sports Collegiate Specific (BSNCP), P.O. Box 7726, Dallas, Texas, 75209; Phone: (800) 527-7510; Fax: (800) 899-0149 or approved equal.
   a. Powder coated optic yellow.
   b. Heavy duty 3 ½" O.D. heavy wall pipe.
   c. Twenty (20') foot exposed height.
   d. 1'-6" x 12'-0" visual wings.
2. Contractor shall install 16" diameter x 48" deep concrete footings in accordance with Item 17A - Class A Concrete for Structures.

D. Construction Details.

1. The installation shall be in accordance with manufacturer's specifications, instructions and requirements.
2. Foul pole shall be set true and plumb in the concrete footing along the foul line at the location shown on the drawings.
3. The concrete footings shall be as shown on the drawings, unless a larger footing is recommended by the manufacturer of the foul pole. The Contractor shall install the larger of the two footing designs.

E. Measurement and Payment.

1. The quantity to be paid for under this Item shall be the number of pairs of foul poles furnished and installed. The unit bid price shall include, but not be limited to all necessary labor, materials, reinforcing, tools, supplies, equipment and incidentals necessary to complete the work. Payment for concrete footings will be made under Item 17A – Class A Concrete.

ITEM 719 - FENCE GUARD

A. Description.

1. Under this Item, the Contractor shall furnish all labor, tools, materials and equipment necessary to install in place, fence guard in accordance with the Plans, Specifications and as directed by the Engineer.

B. Materials and Construction Details.

1. The Contractor shall furnish Standard Fence Guard as manufactured by Mid-America Sports Advantage, 1413 S Meridian Rd, Jasper, IN 47546 - Phone: 800-264-4519 - E-Mail: service@sportsadvantage.com or an approved equal.
2. The fence guard shall be manufactured from polypropylene in a teardrop shaped profile - 2 5/8"W x 4"H x 0.07" wall thickness and designed to fit over standard chain link fencing.
3. **Color.** Safety Yellow.
4. **Fasteners.** The fence guard and secured to the fence using zip ties at two foot intervals.

C. Measurement and Payment.

1. The quantity to be paid for under this Item shall be the actual number of linear feet of Fence Guard furnished and installed in accordance with the Plans, Specifications and as directed by the Engineer.
2. The unit price bid for each linear foot shall include the cost of all labor, materials, tools, equipment, and other incidentals necessary to satisfactorily complete the required work.

ITEM 720 - TENNIS NET AND POST SETS

A. Description.

1. Under this Item the Contractor shall furnish and install tennis net post systems in accordance with the Specifications, as shown on the Plans or as directed by the Engineer.

B. Construction Details.

1. The tennis net post system shall consist of two (2) net posts and one (1) net compete with concrete footings and all accessories necessary to outfit one tennis court.
2. **Net Posts.**
   a. Net posts shall be 66" long, 3" O.D., 8 gauge steel pipe or tubing coated with a black or green epoxy powder coated finish. Color to be designated by the Engineer.
   b. Each net post shall include:
      1) One domed post cap.
      2) One heavy duty brass (outside) and carbon steel (inside) internal winder complete with a removable handle.
      3) Lacing bars and stainless steel ground sleeves.
      4) One ¼" pin located 42" from the top.
      5) One 24" long sleeve to be set in the concrete footing.
   c. Center Net Strap Anchor
      1) The center net strap anchor shall consist of 1 5/8" O.D. by 1'-0" long heavy duty, galvanized steel pipe.
      2) A ¼" diameter pin stainless steel pin shall be inset through the pipe 3/8" from the top end of the pipe to accept the snap hook that fastens down the net.
   d. Tennis Net.
      1) The net shall be forty-two (42') feet long and constructed of 3.5 mm braided polyethylene with a headband constructed of heavy duty 4-ply duck. The netting shall be of high density, braided polyethylene with 4 rows of heavy lock stitched polyester thread with wood or fiberglass dowels.
      2) The top 6 rows shall be double netted for durability.
   e. Concrete Footings.
      1) The net posts shall be set in 36" diameter by 42" deep concrete footings conforming to Item 17A - Class A Concrete.
      2) The center net strap anchor shall be set in a 12" x 12" x 12" concrete footing.

C. Measurement and Payment.

1. The quantity to be paid for under this item shall be the actual number of tennis net post system(s) furnished and installed in accordance with the Plans, Specifications and the directions of the Engineer.
2. The unit price bid for each tennis net post system shall include the cost of all labor, materials, tools, equipment and other incidentals necessary to complete the work.
3. Payment for concrete footings will be made under Item 17A - Class A Concrete.

ITEM 721 - WIND SCREENS

A. **Description.**

1. Under this Item, the Contractor shall furnish all labor, tools, materials and equipment necessary to install in place, Wind Screens in accordance with the Plans, Specifications and as directed by the Engineer.

B. **Materials and Construction Details.**

1. **Material.**
   a. Fiber Content: 100% high density polyethylene
   b. Construction: 85-90% knit Raschel weighing 3.8 lbs. per 100 sf
   c. Colors: black or green
2. **Fasteners.** Wind Screens shall be attached using zip ties at twelve inch intervals along entire perimeter of fabric roll.

C. **Measurement and Payment.**

1. The quantity to be paid for under this Item shall be the actual number of square feet of Wind Screens furnished and installed in accordance with the Plans, Specifications and as directed by the Engineer.
2. The unit price bid for each square foot shall include the cost of all labor, materials, tools, equipment, and other incidentals necessary to satisfactorily complete the required work.

ITEM 722 - BASKETBALL BACKSTOP SYSTEM - ONE PAIR

A. Description

1. Under this Item the Contractor shall furnish and install basketball backstop systems in accordance with the Specifications, as shown on the Plans or as directed by the Engineer.

B. Construction Details

1. Each permanent basketball backstop system shall consist of two (2) 4-1/2" O.D. galvanized steel tubular uprights with a formed (not welded) 4'-0" extension with backboard, two (2) official size goal (one per post) and two (2) nylon nets (one per backboard). All required attaching hardware shall be zinc plated.
2. The backboard shall be a rust resistant official size (42" x 72") rectangular backboard or aluminum fan shaped board. Each heavy duty super goal shall be directly mounted to the extension arm in accordance with manufacturer's instructions.
3. Each goal shall be furnished complete with a heavy-duty, anti-whip nylon net and mounting hardware.
4. **Concrete Footings.**
   a. Backstop Posts shall be set in 36" diameter by 48" deep concrete footings conforming to Item 17A - Class A Concrete. All footing tops shall set flush with top course of asphalt or top of concrete.

C. Measurement and Payment

1. The quantity to be paid for under this Item shall be the actual number of pairs of basketball backstop systems furnished and installed in accordance with the Plans, Specifications and the directions of the Engineer.
2. The unit price bid for each basketball backstop system shall include the cost of all labor, materials, tools, equipment and other incidentals necessary to complete the work.
3. Payment for concrete footings will be made under Item 17A - Class A Concrete.

ITEM 723 - ORNAMENTAL STEEL PICKET FENCE (4'-0" to 8'-0" HIGH)

A. Description.

1. Under this Item the Contractor shall furnish and install Ornamental Steel Picket Fence in Four (4') to Eight (8') Foot Heights in accordance with the Plans, Specifications and appropriate Detail as approved and directed by the Engineer.

B. Materials and Construction Details.

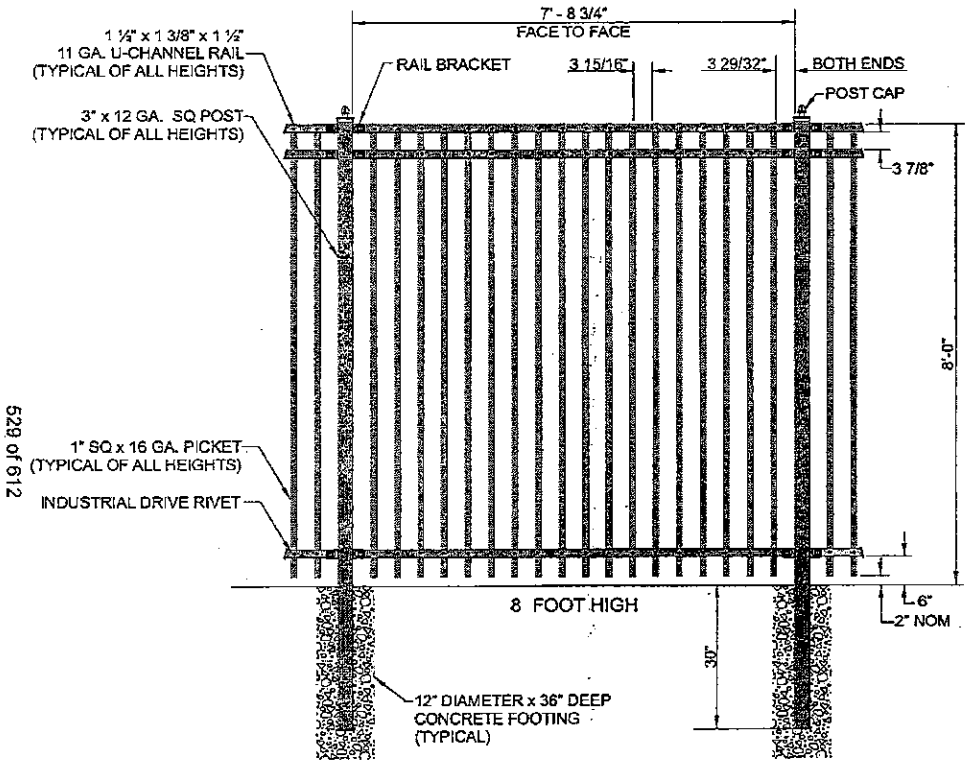
1. **Heights.** Fence sections shall come in four (4') to eight (8') foot heights (See individual Plans.).
2. **Style.** Monumental Iron Works (25 Mill Rd., Ronkonkoma, NY 11779 Telephone No. 631 585-8150) Ornamental Picket Fence shall be Imperial Fence - Style B or Approved Equal.
3. **Pickets.** Pickets shall consist of 1" square x 16 gauge (0.83 plf) thick galvanized steel tubular members manufactured in accordance with ASTM A 787, having a yield strength of 45,000 psi and zinc coated in accordance with ASTM A 90. Pickets shall be spaced at 3 15/16" maximum face to face and attached to each rail with industrial drive rivets.
4. **Rails.** 1 1/2" x 1 3/8" x 1 1/2" x 11 gauge (0.120") thick galvanized steel "U" channel per ASTM A 653 or ASTM A 607, having a yield strength of 50,000 psi and zinc coated in accordance with ASTM A 90. Punch rails to receive pickets and rivets and attach rails to rail brackets with two industrial drive rivets. Steel for rail shall conform to ASTM A 653.
5. **Posts.** Posts shall be 3" square x 12 gauge (4.29 plf) thick galvanized steel tubular members manufactured in accordance with ASTM A-787, having a yield strength of 45,000 psi and zinc coated in accordance with ASTM A 90. Zinc coating shall be applied inside and outside.
6. **Finish.** All pickets, channels, posts, fittings and accessories shall be black, polyester coated individually after drilling and layout, to ensure maximum corrosion protection. Coating of assembled sections is unacceptable. All components shall be power washed to clean and prepare the galvanized surface to assure complete adhesion of the finish coat. All metal shall receive a polyester resin based powder coating applied by the electrostatic spray process to a 2.5 mil thickness. The finish is then baked in a 450^{0}F (metal temperature) oven for 20 minutes.
7. **Hardware.**
   a. Rail Attachment Brackets. - Brackets shall be die cast of zinc (ZAMAK #3 Alloy) in accordance with ASTM B 86-83Z 33521. Ball and socket design capable of 30° swivel (up/down - left/right). Bracket to fully encapsulate rail end for complete security.
   b. Industrial Drive Rivets. Rivets shall be 1/4" (Size #4) and of sufficient length to attach items in a secure non-rattling position. Rivet to have a minimum of 1100 lbs. holding power and a shear strength of 1500 lbs.
   c. Post Caps. Post caps shall be the flat style consisting of formed steel, cast of malleable iron or aluminum alloy, weather tight closure cap.

C. Construction Details.

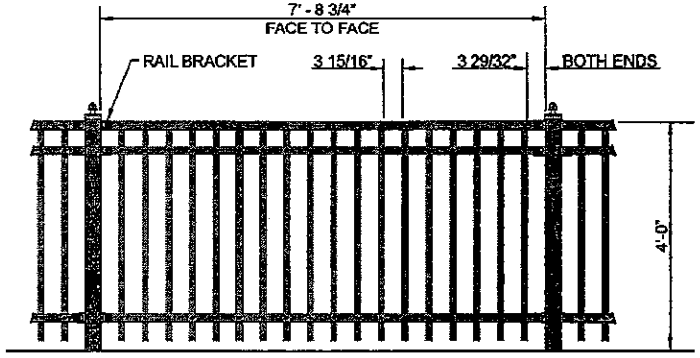
1. Heights. Fence sections shall come in four (4') to eight (8') foot heights (See individual Plans and/or Release Number(s)).
2. Post Spacing. Post spacing shall be 7'-8 ¾" face to face.
3. Concrete Footings.
   a. Line Posts shall be set in 12" diameter by 36" deep concrete footings. All footing tops shall be crowned with a 1" slope to shed water.
   b. All gate posts shall be set plumb in concrete footings of the depths and sizes shown. The concrete shall be Item 17A, Class A concrete 1-2-4 mix. Footings shall be cast rough in the ground and pitched above grade to shed water.
   c. Excavation and backfilling for footings is included hereunder.

D. Measurement and Payment.

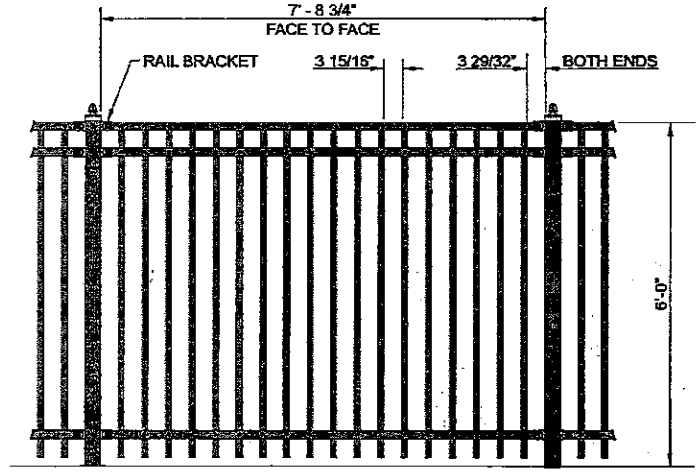
1. The quantity to be paid for under this Item shall be the total number of square feet of Ornamental Steel Picket Fence in Four (4') to Eight (8') Foot Heights furnished and installed in accordance with the Plans, Specifications and appropriate Detail as Approved by the Engineer.
2. The unit price bid per square foot shall include the cost of all labor, materials, tools, equipment, shop drawings, excavation, backfill, restoration and other incidentals necessary to satisfactorily complete the required work.
3. Payment of concrete for footings will be paid under Item 17A-Class A Concrete.



8 FOOT HIGH



4 FOOT HIGH



6 FOOT HIGH

529 of 612

Contract No. H66302U

THREE RAIL ORNAMENTAL FENCE (BLACK)	SCALE: ½"= 1'-0"	NASSAU COUNTY
MONUMENTAL IRON WORKS ORNAMENTAL PICKET FENCE SHALL BE IMPERIAL FENCE - STYLE B OR APPROVED EQUAL	DATE: 10/27/09	

ITEM 724 - 4' WIDE SINGLE SWING ORNAMENTAL STEEL PICKET GATES (4'-0" TO 8'-0" HIGH)

A. Description.

1. Under this Item the Contractor shall furnish and install 4' Wide Single Swing Ornamental Steel Picket Gate(s) in Four (4') to Eight (8') Foot Heights in accordance with the Plans, Specifications and appropriate Detail and as approved and directed by the Engineer.

B. Materials and Construction Details.

1. **Heights**. Fence gates shall come in Four (4') to Eight (8') foot heights (See individual Plan.).
2. **Style**. Monumental Iron Works (25 Mill Rd., Ronkonkoma, NY 11779 Telephone No. 631 585-8150) Ornamental Picket Fence shall be Imperial Fence - Style B or Approved Equal.
3. **Pickets**. Pickets shall consist of 1" square x 16 gauge (0.83 plf) thick galvanized steel tubular members manufactured in accordance with ASTM A 787, having a yield strength of 45,000 psi and zinc coated in accordance with ASTM A 90. Pickets shall be spaced at 3 15/16" maximum face to face and attached to each rail with industrial drive rivets.
4. **Rails**. 1 1/2" x 1 3/8" x 1 1/2" x 11 gauge (0.120") thick galvanized steel "U" channel per ASTM A 653 or ASTM A 607, having a yield strength of 50,000 psi and zinc coated in accordance with ASTM A 90. Punch rails to receive pickets and weld inside gate frame. Steel for rail shall conform to ASTM A 653.
5. **Gate Posts**. Posts shall be 3" square x 12 gauge (4.29 plf) galvanized steel tubular members manufactured in accordance with ASTM A-787, having a yield strength of 45,000 psi and zinc coated in accordance with ASTM A 90. Zinc coating shall be applied inside and outside.
6. **Finish**. All pickets, channels, posts, fittings and accessories shall be black, polyester coated individually after drilling and layout, to ensure maximum corrosion protection. Coating of assembled sections is unacceptable. All components shall be power washed to clean and prepare the galvanized surface to assure complete adhesion of the finish coat. All metal shall receive a polyester resin based powder coating applied by the electrostatic spray process to a 2.5 mil thickness. The finish is then baked in a 450°F (metal temperature) oven for 20 minutes.
7. **Hardware**.
   a. Bracing. Provide diagonal adjustable length truss rods on gates to prevent sag.
   b. Hinges. Structurally capable of supporting gate leaf and allow opening and closing without binding. Non-lift-off type hinge design shall permit gate to swing 180°.
   c. Latch. Capable of retaining gate in closed position and have provision of padlock.

d. Industrial Drive Rivets. Rivets shall be 1/4" (Size #4) and of sufficient length to attach items in a secure non-rattling position. Rivet to have a minimum of 1100 lbs. holding power and a shear strength of 1500 lbs.

e. Post Caps. Post caps shall be the flat style consisting of formed steel, cast of malleable iron or aluminum alloy, weather tight closure cap.

C. Construction Details.

1. **Footings.**

   a. All gate posts shall be set plumb in concrete footings of the depths and sizes shown. The concrete shall be Item 17A, Class A concrete 1-2-4 mix. Footings shall be cast rough in the ground and pitched above grade to shed water.

   b. Excavation and backfilling for footings is included hereunder.

2. **Bottom Clearance**. The bottom of the gates shall clear the finished grade by approximately two (2") inches. The clearance under the gates in the closed position is not to exceed three (3") inches.

D. Measurement and Payment.

1. The quantity to be paid for under this Item shall be the total number of square feet of 4' Wide Single Swing Ornamental Steel Picket Gate(s) in Four (4') to Eight (8') Foot Heights furnished and installed in accordance with the Plans, Specifications and appropriate Detail as approved by the Engineer.

2. The actual square footage shall be determined by measuring the clear opening between the inside faces of the gate's hinge and latch posts and multiplying by the nominal height of the fence.

3. The unit price bid per each square foot of gate shall include the cost of furnishing all labor, materials, tools, equipment and other incidentals necessary to satisfactorily complete the required work, including the gate posts, excavation, fill, restoration, grading, and shop drawings.

4. Payment of concrete for footings will be paid under Item 17A-Class A Concrete.

ITEM 725 - 10' WIDE DOUBLE SWING ORNAMENTAL STEEL PICKET GATES (4'-0" to 8'-0" HIGH)

A. Description.

1. Under this Item the Contractor shall furnish and install 10' Wide Double Swing Ornamental Steel Picket Gate(s) in Four (4') to Eight (8') Foot Heights in accordance with the Plans, Specifications and appropriate Detail as approved and directed by the Engineer.

B. Materials and Construction Details.

1. **Heights**. Fence gates shall come in Four (4') to Eight (8') heights (See individual Plans.).
2. **Style**. Monumental Iron Works (25 Mill Rd., Ronkonkoma, NY 11779 Telephone No. 631 585-8150) Ornamental Picket Fence shall be Imperial Fence - Style B or Approved Equal.
3. **Pickets**. Pickets shall consist of 1" square x 16 gauge (0.83 plf) thick galvanized steel tubular members manufactured in accordance with ASTM A 787, having a yield strength of 45,000 psi and zinc coated in accordance with ASTM A 90. Pickets shall be spaced at 3 15/16" maximum face to face and attached to each rail with industrial drive rivets.
4. **Rails**. 1 1/2" x 1 3/8" x 1 1/2" x 11 gauge (0.120") thick galvanized steel "U" channel per ASTM A 653 or ASTM A 607, having a yield strength of 50,000 psi and zinc coated in accordance with ASTM A 90. Punch rails to receive pickets and weld inside gate frame. Steel for rail shall conform to ASTM A 653.
5. **Gate Posts**. Posts shall be 4" square x 12 Gauge (5.77 plf) galvanized steel tubular members manufactured in accordance with ASTM A-787, having a yield strength of 45,000 psi and zinc coated in accordance with ASTM A 90. Zinc coating shall be applied inside and outside.
6. **Finish**. All pickets, channels, posts, fittings and accessories shall be black, polyester coated individually after drilling and layout, to ensure maximum corrosion protection. Coating of assembled sections is unacceptable. All components shall be power washed to clean and prepare the galvanized surface to assure complete adhesion of the finish coat. All metal shall receive a polyester resin based powder coating applied by the electrostatic spray process to a 2.5 mil thickness. The finish is then baked in a 450°F (metal temperature) oven for 20 minutes.
7. **Hardware**.
   a. Bracing. Provide diagonal adjustable length truss rods on gates to prevent sag.
   b. Hinges. Structurally capable of supporting gate leaf and allow opening and closing without binding. Non-lift-off type hinge design shall permit gate to swing 180°.
   c. Latch. Capable of retaining gate in closed position and have provision of padlock.
   d. Keeper. Gate keeper (holdback) shall consist of mechanical device for securing the free end of the gate when in the open position.

e. Drop Rod. Provide a drop rod to secure the inactive leaf; gate stop pipe to engage the center of the drop rod; locking device and padlock eyes as an integral part of the latch; and one padlock for each double swing gate.

f. Industrial Drive Rivets. Rivets shall be 1/4" (Size #4) and of sufficient length to attach items in a secure non-rattling position. Rivet to have a minimum of 1100 lbs. holding power and a shear strength of 1500 lbs.

g. Post Caps. Post caps shall be the flat style consisting of formed steel, cast of malleable iron or aluminum alloy, weather tight closure cap.

C. Construction Details.

1. **Heights**. Fence sections shall come in four (4') to eight (8') foot heights.
2. **Footings**.
   a. All gate posts shall be set plumb in concrete footings of the depths and sizes shown. The concrete shall be Item 17A, Class A concrete 1-2-4 mix. Footings shall be cast rough in the ground and pitched above grade to shed water.
   b. Excavation and backfilling for footings is included hereunder.
3. **Bottom Clearance**. The bottom of the gates shall clear the finished grade by approximately two (2") inches. The clearance under the gates in the closed position is not to exceed three (3") inches.

D. Measurement and Payment.

1. The quantity to be paid for under this Item shall be the total number of square feet of 10' Wide Double Swing Ornamental Steel Picket Gate(s) in Four (4') to Eight (8') Foot Heights furnished and installed in accordance with the Plans, Specifications and appropriate Detail as approved by the Engineer.
2. The actual square footage shall be determined by measuring the clear opening between the inside faces of the gate's hinge and latch posts and multiplying by the nominal height of the fence.
3. The unit price bid per each square foot of gate shall include the cost of furnishing all labor, materials, tools, equipment and incidentals necessary to satisfactorily complete the required work, including the gate posts, excavation, fill, restoration, grading, and shop drawings.
4. Payment of concrete for footings will be paid under Item 17A-Class A Concrete.

ITEM 726 - ORNAMENTAL STEEL PICKET CANTILEVER SLIDE GATES IN FOUR (4') TO EIGHT (8') FOOT HEIGHTS (16'-0" TO 22'-0" WIDE)

A. Description.

1. Under this Item the Contractor shall furnish and install Ornamental Steel Picket Cantilever Slide Gates in Four (4') to Eight (8') Foot Heights between 16'-0" and 22'-0" wide in accordance with the Plans, Specifications and appropriate Detail as approved by the Engineer.

B. Materials and Construction Details.

1. **Gate Frames.** Fabricate ornamental steel picket cantilever slide gates in accordance with ASTM F1184, Type II, Class 2, using 2" square aluminum members, ASTM B 221, alloy and temper 6063-T6, weighing 1.88 lbs/ft. Weld members together forming rigid one-piece frame integral with top track. Provide two (2) truck assemblies for each gate leaf
2. **Internal Uprights.** 1" x 2" aluminum members welded in gate frames, at maximum 6'-2" face to face subdividing frame into panels.
3. **Ornamental Picket Infill.** "U" channel rails formed aluminum, 1-3/8" wide x 1-1/2" deep, 11 gauge [0.120"] wall thickness. Punch rails to receive pickets, and welded inside gate frame. Pickets, galvanized steel, 1" square tube of 16 gauge and 3 15/16" spacing. Attach pickets to "U" rails by 1/4" industrial drive rivets.
4. **Bracing.** Provide diagonal adjustable length truss rods, or 3/8 inch galvanized steel, in each panel of gate frames.
5. **Top Track/Rail.** Enclosed, combination one-piece track and rail, aluminum extrusion with weight of 3.72 lbs/ft. Track to withstand reaction load of 2,000 lbs.
6. **Truck Assembly.** Swivel type, zinc die cast, with Four (4) sealed lubricant ballbearing rollers, 2" in diameter by 9/16" in width, and two (2) side rolling wheels to ensure truck alignment in track. Mount trucks on post brackets using 7/8" diameter ball bolts with ½" shank. Design truck assembly to withstand same reaction load as track.
7. **Gate Hangers, Latches, Brackets, Guide Assemblies, and Stops.** Malleable iron or steel, galvanized after fabrication. Provide positive latch with provisions for padlocking.
8. **Bottom Guide Wheel Assemblies.** Each assembly shall consist of two 3" diameter rubber wheels, straddling bottom horizontal gate rail, allowing adjustment to maintain gate frame plumb and in proper alignment. Attach one assembly to each guide post.
9. **Gate Posts.** Galvanized steel 4" square, weighing 9.59 lb./ft. Provide 1 latch post and 2 support posts for single slide gates.
10. **Finish.** To match fence.

11. **Concrete Footings.**

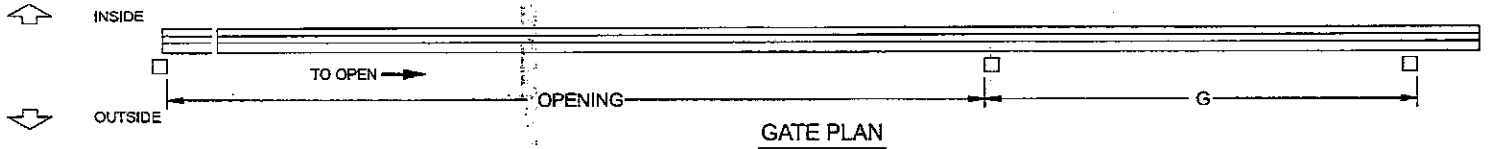
    a. Gate Posts shall be set plumb in 18" diameter by 48" deep concrete footings and filled completely with concrete. All footing tops shall be crowned with a 1" slope to shed water.

    b. The concrete shall be Item 17A, Class A concrete 1-2-4 mix.

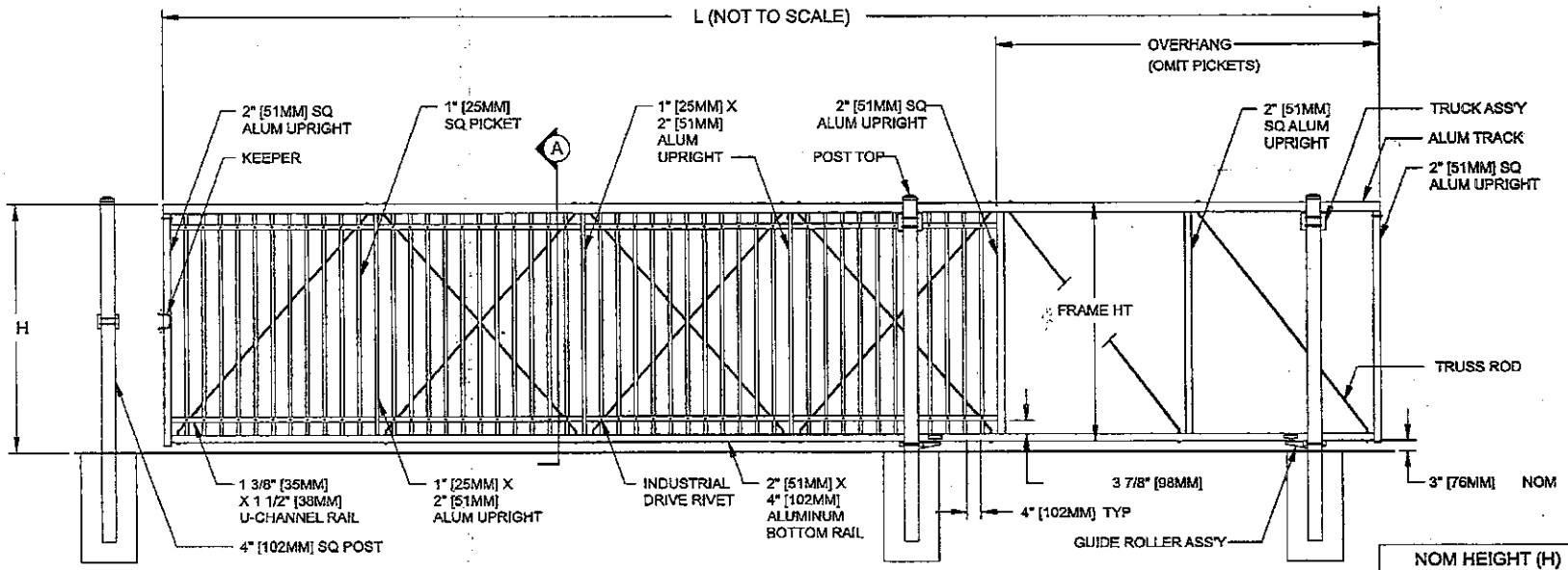
    c. Excavation and backfilling for footings is included hereunder.

C. Measurement and Payment.

1. The quantity to be paid for under this item shall be the total number of square feet of Ornamental Steel Picket Cantilever Slide Gates in Four (4') to Eight (8') Foot Heights between 16'-0" and 22'-0" wide furnished and installed in accordance with the Plans, Specifications and appropriate Detail as approved by the Engineer.
2. The actual square footage shall be determined by measuring the clear opening between the inside faces of the gate's hinge and latch posts and multiplying by the nominal height of the fabric.
3. The unit price bid per each square foot of gate shall include the cost of furnishing all labor, materials, tools, equipment and incidentals necessary to satisfactorily complete the required work, including the gate posts, excavation, fill, restoration, grading, and shop drawings.
4. Payment of concrete for footings will be paid under Item 17A-Class A Concrete.



GATE PLAN



GATE ELEVATION - (4) BAYS SHOWN

SEE SHEET #2 FOR DETAILS & SECTIONS

NOM HEIGHT (H)
6'-0" [1829MM]
7'-0" [2134MM]
8'-0" [2438MM]

OPENING
16'-0" [4877MM] THROUGH 22'-0" [6706MM]

NOTES:
1. METRIC DIMENSIONS ARE NOMINAL EQUIVALENTS TO U.S. DIMENSIONS.
2. SPECIFICATIONS SHOWN CAN BE CHANGED BY MASTER-HALCO ONLY.
3. GATES MAY BE MANUALLY OR ELECTRICALLY OPERATED. HARDWARE WILL VARY FOR ELECTRICALLY OPERATED GATES.

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MIW Ornamental Picket

MONUMENTAL IRON WORKS

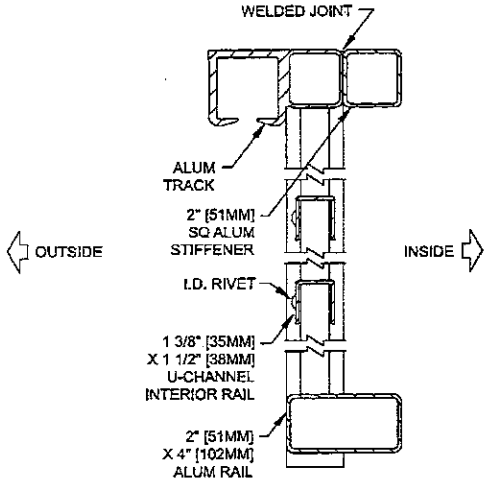
IMPERIAL SINGLE CANTILEVERED SLIDING GATE

NASSAU COUNTY

BY:	JRR	DWG:	6-8100
DATE:	08-18-95		
REV:	D	LAYER: 1	SHEET: 1
REV DATE:	05-10-00	SCALE:	3/8" = 1'-0"

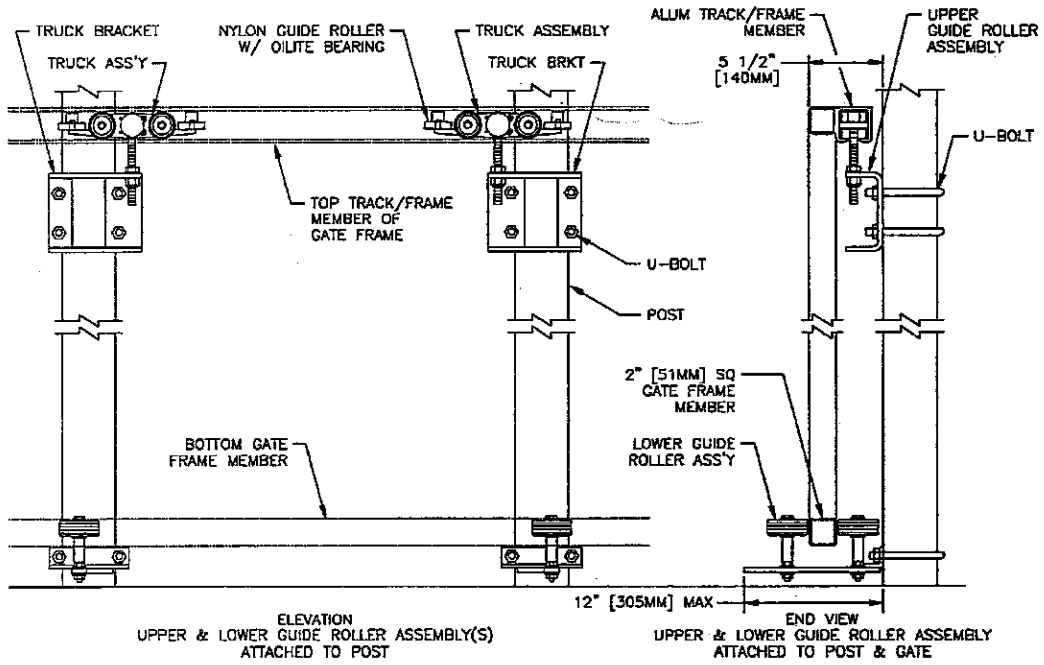
Contract No. H583020

OPENING	LENGTH (L)	GATE POSTS (G)	BAYS	OVERHANG
I/S POST FACE TO I/S POST FACE	O/S DIM OF GATE LEAF	O/S POST FACE TO O/S POST FACE	NUMBER OF BAYS WITH PICKETS	NUMBER OF BAYS W/O PICKETS
16'-0" [4877MM]	26'-3" [8001MM]	10'-0" [3048MM]	(3) THREE	(2) TWO
17'-0" [5182MM]	27'-3" [8306MM]	10'-0" [3048MM]	(3) THREE	(2) TWO
18'-0" [5486MM]	28'-3" [8611MM]	10'-0" [3048MM]	(3) THREE	(2) TWO
19'-0" [5791MM]	29'-3" [8915MM]	10'-0" [3048MM]	(3) THREE	(2) TWO
20'-0" [6096MM]	30'-3" [9220MM]	10'-0" [3048MM]	(3) THREE	(2) TWO
21'-0" [6401MM]	31'-3" [9525MM]	10'-0" [3048MM]	(4) FOUR	(2) TWO
22'-0" [6706MM]	32'-3" [9830MM]	10'-0" [3048MM]	(4) FOUR	(2) TWO



SEC A (16' THRU 22' OPENINGS)

SCALE: 3" = 1'-0"



ELEVATION
UPPER & LOWER GUIDE ROLLER ASSEMBLY(S) ATTACHED TO POST

END VIEW
UPPER & LOWER GUIDE ROLLER ASSEMBLY ATTACHED TO POST & GATE

SCALE: 1 ½" = 1'-0"

M I W Ornamental Picket

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MONUMENTAL IRON WORKS

IMPERIAL SINGLE CANTILEVERED SLIDING GATE

NASSAU COUNTY

BY:	JRR	DWG:	6-8100
DATE:	08-18-95		
REV:	D	LAYER: 1	SHEET: 2
REV DATE:	05-10-00	SCALE:	VARIES

Contract No. H68302U

ITEM 727 - STRAIGHT PICKET PVC FENCE (4'-0" TO 6'-0" HIGH)

A. Description.

1. Under this Item the Contractor shall furnish and install Straight Picket PVC Fence in Four (4') to Six (6') Foot Heights in accordance with the Plans, Specifications and appropriate Detail as approved by the Engineer.

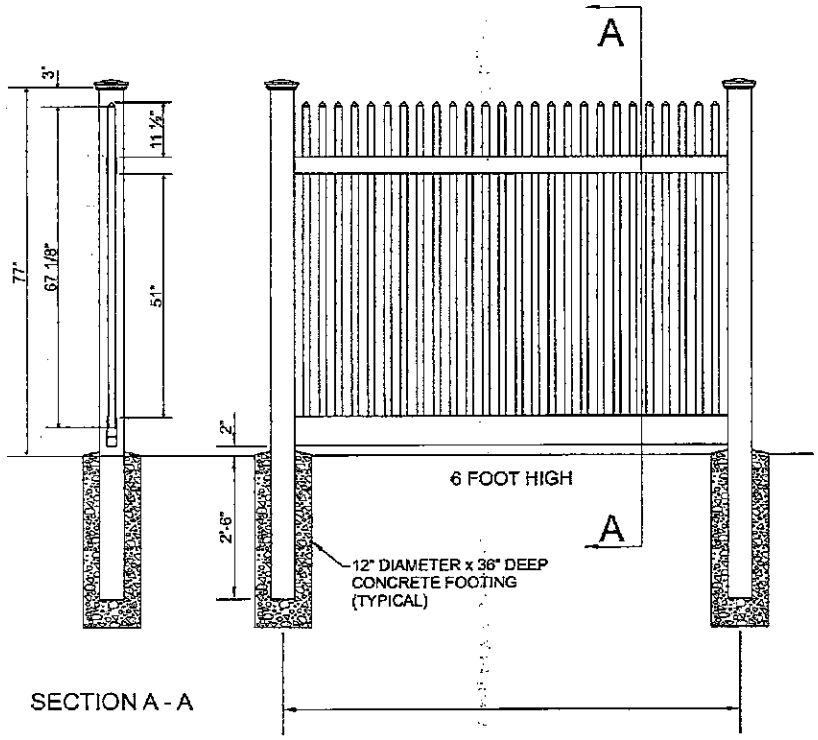
B. Materials and Construction Details.

1. **Materials**
   a. Solid Wall Virgin Polyvinyl Chloride (PVC) conforming to ASTM F 964
   b. **Manufacturer.** Nebraska Plastics, Inc., P.O. Box 45, Cozard, Ne 69130; Telephone 1-800-445-2887; Fax 1-308-784-3216 or Approved Equal.
   c. **Style.** Country Estate Fence – Hampton or approved equal
2. **Heights.** Fence sections shall come in four, five and six foot heights.
3. **Line Post and Components.**
   a. One (1) – 5" x 5" x 0.135" Fence Post
   b. One (1) – New England Post Cap
   c. Line posts shall be spaced at 8'-0" on centers
   d. Every fourth line post shall be filled two-thirds of its height with concrete - the same concrete as used in concrete footings.
4. **Section Specifications**
   1) **Heights.** Fence sections shall come in four, five and six foot heights.
   2) Top Horizontal – 2" x 3 1/2"
   3) Bottom Horizontal – 2" x 6"
   4) Verticals – 1 1/2" x 1 1/2"
   5) One white powder coated latch

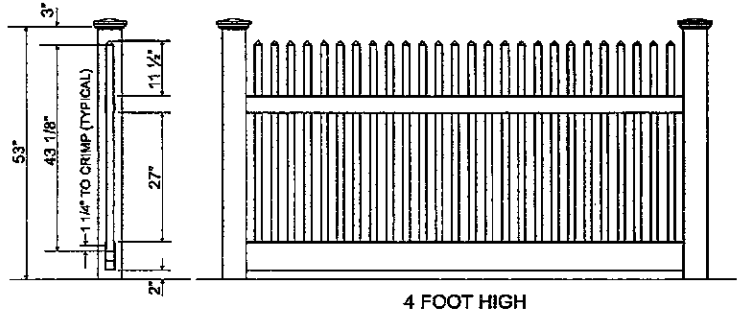
   b. Concrete Footings
   1) Line Posts shall be set in 12" diameter by 36" deep concrete footings. All footing tops shall be crowned with a 1" slope to shed water.
   2) All posts shall be set plumb in concrete. The concrete shall be Item 17A, Class A concrete 1-2-4 mix. Footings shall be cast rough in the ground and pitched above grade to shed water.
   3) Excavation and backfilling for footings is included hereunder.

C. Measurement and Payment.

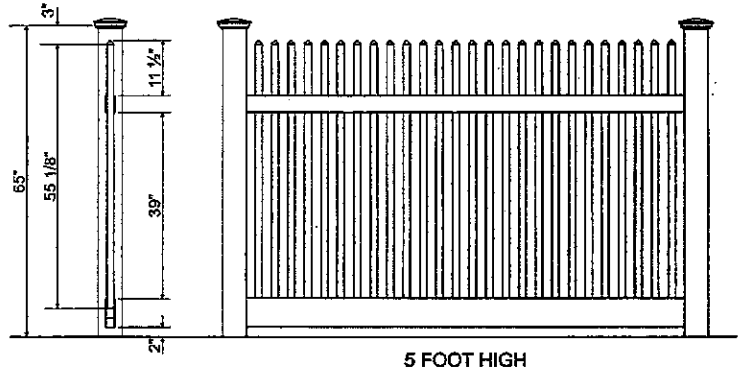
1. The quantity to be paid for under this Item shall be the total number of square feet of Straight Picket PVC Fence in Four (4') to Six (6') Foot Heights furnished and installed in accordance with the Plans, Specifications and appropriate Detail as approved by the Engineer.
2. The unit price bid per each square foot of fence shall include the cost of furnishing all labor, materials, tools, equipment and incidentals necessary to satisfactorily complete the required work including gate posts, excavation, fill, concrete, grading, and shop drawings.
3. Payment of concrete for footings will be paid under Item 17A-Class A Concrete.



SECTION A - A



SECTION A - A



SECTION A - A

STRAIGHT PICKET PVC FENCE

LINE POSTS:	5" x 5" x 0.135" THICK FENCE POST SET IN 12" DIAMETER BY 36" DEEP, 3,000 PSI CONCRETE FOOTINGS AT 8'-0" O.C. AND VARIABLE MANUFACTURED BY MARKSMEN MANUFACTURING CORP. OR EQUAL
TOP RAIL:	2" x 3 1/2" RIBBED FENCE PROFILE
BOTTOM RAIL:	2" x 6" RIBBED PLANK PROFILE
PICKETS:	1 1/2" x 1 1/2" RIBBED FENCE PROFILE
PVC MATERIAL:	CONSTRUCTED OF SOLID WALL VIRGIN POLYVINYL CHLORIDE CONFORMING TO ASTM F 964 - COUNTRY ESTATE AS MANUFACTURED BY NEBRASKA PLASTICS, INC. OR EQUAL.

SCALE: ½"= 1'-0"

DATE: 10/27/09

NASSAU COUNTY

Contract No. 10-0302U

ITEM 728 - 4'-0" WIDE SINGLE SWING STRAIGHT PICKET PVC GATES (4'-0" to 6'-0" HIGH)

A. Description.

1. Under this item the Contractor shall furnish and install 4' Wide Single Swing PVC Picket Gates in Four (4') to Six (6') Foot Heights for PVC Fence, including two heavy duty gate in accordance with the Plans, Specifications and appropriate Detail as approved by the Engineer.

B. Materials and Construction Details.

1. **Materials**
   a. Solid Wall Virgin Polyvinyl Chloride (PVC) conforming to ASTM F 964
   b. **Manufacturer**. Nebraska Plastics, Inc., P.O. Box 45, Cozard, Ne 69130; Telephone 1-800-445-2887; Fax 1-308-784-3216 or Approved Equal.
   c. **Style**. Country Estate Fence – Hampton or approved equal.
2. **Heights**. Single Swing Gates shall come in four, five and six foot heights.
3. **Gate Posts**: 6 ½" x 6 ½" heavy duty (two required)
4. **Gate Specifications**
   a. Straight Picket PVC Fence Gate
      1) Top Horizontal – 2" x 3 1/2"
      2) Bottom Horizontal – 2" x 6"
      3) Verticals – 1 1/2" x 1 1/2"
      4) One pair of white powder coated stainless steel hinges and
      5) One white powder coated latch
   b. Concrete Footings
      1) Gate Posts shall be set in 16" diameter by 42" deep concrete footings and filled completely with concrete. All footing tops shall be crowned with a 1" slope to shed water.
      2) All posts shall be set plumb in concrete. The concrete shall be Item 17A, Class A concrete 1-2-4 mix. Footings shall be cast rough in the ground and pitched above grade to shed water.
      3) Excavation and backfilling for footings is included hereunder.

C. Measurement and Payment.

1. The quantity to be paid for under this Item shall be the total number of square feet of 4' Wide Single Swing PVC Picket Gates in Four (4') to Six (6') Foot Heights furnished and installed in accordance with the Plans, Specifications and appropriate Detail as approved by the Engineer.
2. The actual square footage of gates shall be determined by measuring the clear opening between the inside faces of the gate's hinge and latch posts and multiplying by the nominal height of the fence.

3. The unit price bid per each square foot of gates shall include the cost of furnishing all labor, materials, tools, equipment and incidentals necessary to satisfactorily complete the required work including gate posts, excavation, fill, restoration, grading, and shop drawings.
4. Payment of concrete for footings will be paid under Item 17A-Class A Concrete.

ITEM 729 - 10'-0" WIDE DOUBLE SWING STRAIGHT PICKET PVC GATES (4'-0" TO 6'-0" HIGH)

A. Description.

1. Under this item the Contractor shall furnish and install 10' Wide Double Swing PVC Gates in Four (4') to Six (6') Foot Heights for PVC Fence, including two heavy gate posts in accordance with the Plans, Specifications and appropriate Detail Sheet and as approved by the Engineer.

B. Materials and Construction Details.

1. **Materials**
   a. Solid Wall Virgin Polyvinyl Chloride (PVC) conforming to ASTM F 964
   b. **Manufacturer.** Nebraska Plastics, Inc., P.O. Box 45, Cozard, Ne 69130; Telephone 1-800-445-2887; Fax 1-308-784-3216 or Approved Equal.
   c. **Style.** Country Estate Fence – Hampton or approved equal.
   d. **Heights.** Double Swing Gates shall come in four, five and six foot heights
2. **Gate posts:** 6 ½" x 6 ½" heavy duty (two required)
3. **Gate Specifications**
   a. Straight Picket PVC Fence Gate
      1) Top Horizontal – 2" x 3 1/2"
      2) Bottom Horizontal – 2" x 6"
      3) Verticals – 1 1/2" x 1 1/2"
      4) Two pairs of white powder coated stainless steel hinges and
      5) One white powder coated cane rod
   b. Concrete Footings
      1) Gate Posts shall be set in 18" diameter by 48" deep concrete footings and filled completely with concrete. All footing tops shall be crowned with a 1" slope to shed water.
      2) All posts shall be set plumb in concrete. The concrete shall be Item 17A, Class A concrete 1-2-4 mix. Footings shall be cast rough in the ground and pitched above grade to shed water.
      3) Excavation and backfilling for footings is included hereunder.

C. Measurement and Payment.

1. The quantity to be paid for under this Item shall be the actual number of square feet of 10' Wide Double Swing PVC Gates in Four (4') to Six (6') Foot Heights furnished and installed in accordance with the Plans, Specifications and appropriate Detail as approved by the Engineer.
2. The actual square footage of gates shall be determined by measuring the clear opening between the inside faces of the two gate posts and multiplying by the nominal height of the fence.

3. The unit price bid per each square foot of gates shall include the cost of furnishing all labor, materials, tools, equipment and incidentals necessary to satisfactorily complete the required work including gate posts, excavation, fill, restoration, grading, and shop drawings.
4. Payment of concrete for footings will be paid under Item 17A-Class A Concrete.

ITEM 730 - STRAIGHT SOLID PANEL PVC FENCE (4'-0" TO 8'-0" HIGH)

A. Description.

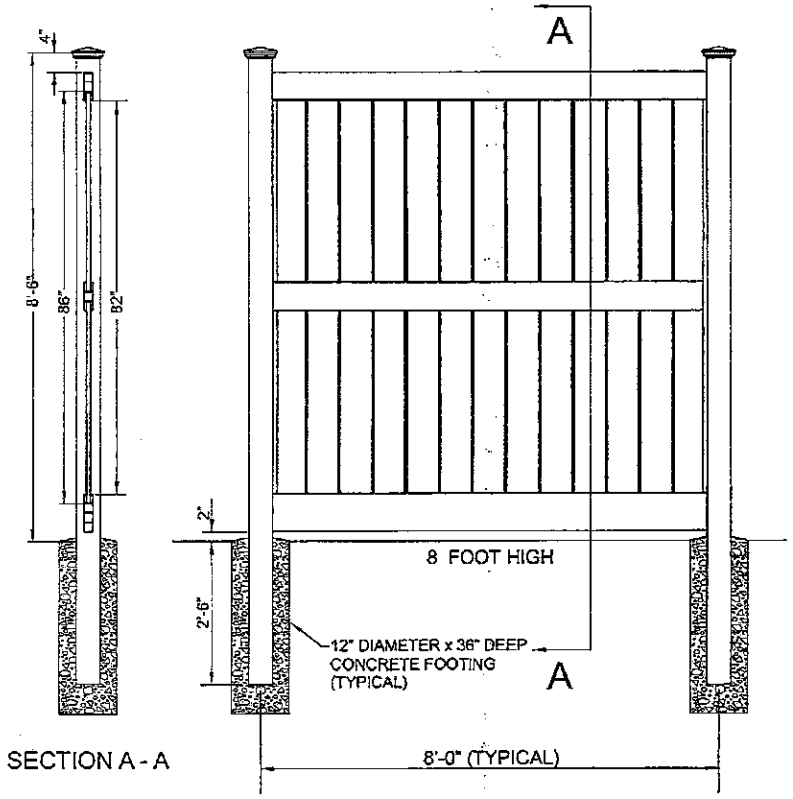
1. Under this Item the Contractor shall furnish and install Straight Solid Panel PVC Fence in Four (4') to Eight (8') Foot Heights in accordance with the Plans, Specifications and appropriate Detail as approved by the Engineer.

B. Materials and Construction Details.

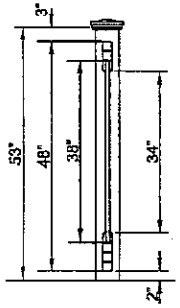
1. **Materials**
   a. Solid Wall Virgin Polyvinyl Chloride (PVC) conforming to ASTM F 964
   b. **Manufacturer.** Nebraska Plastics, Inc., P.O. Box 45, Cozard, Ne 69130; Telephone 1-800-445-2887; Fax 1-308-784-3216 or Approved Equal.
   c. **Style.** Country Estate Fence – Lakeland or approved equal.
2. **Heights.** Fence sections shall come in four, five, six and eight foot heights
3. **Line Post and Components.**
   a. One (1) - 5" x 5" x 0.135" Fence Post
   b. One (1) - New England Post Cap
   c. Line posts shall be spaced at 8'-0" on centers
   d. Every fourth line post shall be filled two-thirds of its height with concrete - the same concrete as used in concrete footings.
4. **Section Specifications**
   a. Straight Solid Panel PVC Fence
      1) Top Horizontal - 2" x 6"
      2) **8' High Only** - Middle Horizontal - 2" x 6"
      3) Bottom Horizontal - 2" x 8"
      4) Verticals - 7/8" x 7"
      5) U Channel - 1" x 1 ½"
   b. Concrete Footings
      1) Line Posts shall be set in 12" diameter by 36" deep concrete footings. All footing tops shall be crowned with a 1" slope to shed water.
      2) All posts shall be set plumb in concrete. The concrete shall be Item 17A, Class A concrete 1-2-4 mix. Footings shall be cast rough in the ground and pitched above grade to shed water.
      3) Excavation and backfilling for footings is included hereunder.

C. Measurement and Payment.

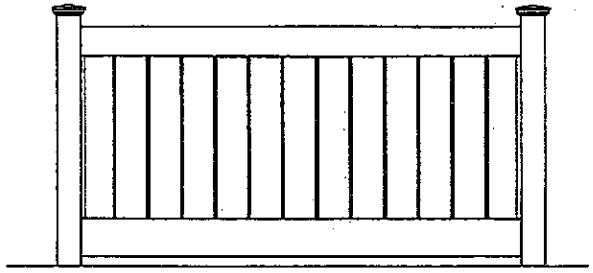
1. The quantity to be paid for under this Item shall be the total number of square feet of Straight Solid Panel PVC Fence in Four (4') to Eight (8') Foot Heights furnished and installed in accordance with the Plans, Specifications and appropriate Detail as approved by the Engineer.
2. The unit price bid per each square foot of fence shall include the cost of furnishing all labor, materials, tools, equipment and incidentals necessary to satisfactorily complete the required work including gate posts, excavation, fill, restoration, grading, and shop drawings.
3. Payment of concrete for footings will be paid under Item 17A-Class A Concrete.



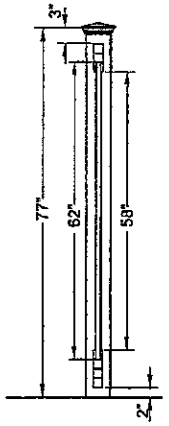
SECTION A - A



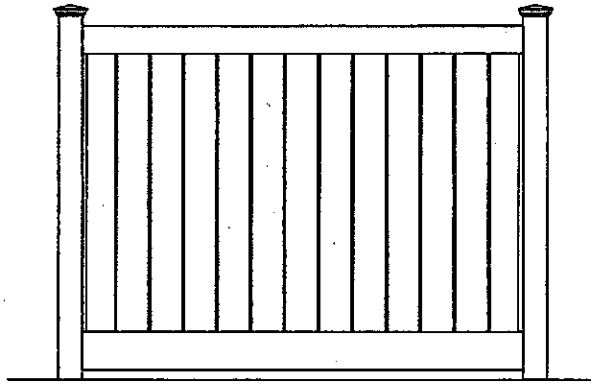
SECTION A - A



4 FOOT HIGH



SECTION A - A



6 FOOT HIGH

STRAIGHT SOLID PANEL PVC FENCE

LINE POSTS:	5" x 5" x 0.135" THICK FENCE POST SET IN 12" DIAMETER BY 36" DEEP, 3,000 PSI CONCRETE FOOTINGS AT 8'-0" O.C. AND VARIABLE. MANUFACTURED BY MARKSMEN MANUFACTURING CORP. OR EQUAL
TOP RAIL:	2" x 6" RIBBED FENCE PROFILE W/1 3/4" x 1 3/4" ALUMINUM U-CHANNEL INSERT
BOTTOM RAIL:	2" x 8" RIBBED PLANK PROFILE W/1 3/4" x 1 3/4" ALUMINUM U-CHANNEL INSERT
VERTICAL:	7/8" x 7" RIBBED FENCE TONGUE & GROOVE PROFILE
VERTICAL U-CHANNEL:	1" x 1 ½" U-CHANNEL
PVC MATERIAL:	CONSTRUCTED OF SOLID WALL VIRGIN POLYVINYL CHLORIDE CONFORMING TO ASTM F 964 - COUNTRY ESTATE AS MANUFACTURED BY NEBRASKA PLASTICS, INC. OR EQUAL.

SCALE: ½"= 1'-0"

DATE: 10/27/09

NASSAU COUNTY

Contract No: H663902U

ITEM 731 - 4'-0" WIDE SINGLE SWING STRAIGHT SOLID PANEL PVC GATES (4'-0" to 8'-0" HIGH)

A. Description.

1. Under this item the Contractor shall furnish and install 4' Wide Single Solid Panel PVC Picket Gates in Four (4') to Eight (8') Foot Heights for PVC Fence, including two heavy duty gate in accordance with the Plans, Specifications and appropriate Detail as approved by the Engineer.

B. Materials and Construction Details.

1. **Materials**
   a. Solid Wall Virgin Polyvinyl Chloride (PVC) conforming to ASTM F 964
   b. **Manufacturer**. Nebraska Plastics, Inc., P.O. Box 45, Cozard, Ne 69130; Telephone 1-800-445-2887; Fax 1-308-784-3216 or Approved Equal.
   c. **Style**. Country Estate Fence – Lakeland or approved equal.
2. **Heights**. Single Swing Gates shall come in four, five, six and eight foot heights
3. **Gate Posts**: 6 ½" x 6 ½" heavy duty (two required)
4. **Gate Specifications**
   a. Straight Solid Panel PVC Fence Gates
      1) Two (2) - 5" x 5" x 0.135" Fence Posts
      2) Two (2) - New England Post Caps
      3) Top Horizontal - 2" x 6"
      4) **8' High Only** - Middle Horizontal - 2" x 6"
      5) Bottom Horizontal - 2" x 8"
      6) Verticals - 7/8" x 7"
      7) U Channel - 1" x 1 ½"
      8) One pair of white powder coated stainless steel hinges and
      9) One white powder coated latch
   b. Concrete Footings
      1) Gate Posts shall be set in 16" diameter by 42" deep concrete footings and filled completely with concrete. All footing tops shall be crowned with a 1" slope to shed water.
      2) All posts shall be set plumb in concrete. The concrete shall be Item 17A, Class A concrete 1-2-4 mix. Footings shall be cast rough in the ground and pitched above grade to shed water.
      3) Excavation and backfilling for footings is included hereunder.

C. Measurement and Payment.

1. The quantity to be paid for under this Item shall be the total number of square feet of 4' Wide Single Swing PVC Solid Panel Gates in Four (4') to Eight (8') Foot Heights furnished and installed in accordance with the Plans, Specifications and appropriate Detail as approved by the Engineer.
2. The actual square footage of gates shall be determined by measuring the clear opening between the inside faces of the gate's hinge and latch posts and multiplying by the nominal height of the fence.

3. The unit price bid per each square foot of gates shall include the cost of furnishing all labor, materials, tools, equipment and incidentals necessary to satisfactorily complete the required work including gate posts, excavation, fill, restoration, grading, and shop drawings.
4. Payment of concrete for footings will be paid under Item 17A-Class A Concrete.

ITEM 732 - 10'-0" WIDE DOUBLE SWING STRAIGHT SOLID PANEL PVC GATES (4'-0" TO 8'-0" HIGH)

A. Description.

1. Under this item the Contractor shall furnish and install 10' Wide Double Swing PVC Gates in Four (4') to Eight (8') Foot Heights for PVC Fence, including two heavy gate posts in accordance with the Plans, Specifications and appropriate Detail as approved by the Engineer.

B. Materials and Construction Details.

1. **Materials**
   a. Solid Wall Virgin Polyvinyl Chloride (PVC) conforming to ASTM F 964
   b. **Manufacturer.** Nebraska Plastics, Inc., P.O. Box 45, Cozard, Ne 69130; Telephone 1-800-445-2887; Fax 1-308-784-3216 or Approved Equal.
   c. **Style.** Country Estate Fence – Lakeland or approved equal.
2. **Heights.** Double Swing Gates shall come in four, five, six and eight foot heights
3. **Gate posts:** 6 ½" x 6 ½" heavy duty (two required)
4. **Gate Specifications**
   a. Straight Solid Panel PVC Fence Gates
      1) Two (2) - 5" x 5" x 0.135" Fence Posts
      2) Two (2) - New England Post Caps
      3) Top Horizontal - 2" x 6"
      4) 8' High Only - Middle Horizontal - 2" x 6"
      5) Bottom Horizontal - 2" x 8"
      6) Verticals - 7/8" x 7"
      7) U Channel - 1" x 1 ½"
      8) Two pairs of white powder coated stainless steel hinges and
      9) One white powder coated cane rod
   b. Concrete Footings
      1) Gate Posts shall be set in 18" diameter by 48" deep concrete footings and filled completely with concrete. All footing tops shall be crowned with a 1" slope to shed water.
      2) All posts shall be set plumb in concrete. The concrete shall be Item 17A, Class A concrete 1-2-4 mix. Footings shall be cast rough in the ground and pitched above grade to shed water.
      3) Excavation and backfilling for footings is included hereunder.

C. Measurement and Payment.

1. The quantity to be paid for under this Item shall be the actual number of square feet of 10' Wide Double Swing PVC Gates in Four (4') to Eight (8') Foot Heights furnished and installed in accordance with the Plans, Specifications and appropriate Detail as approved by the Engineer.
2. The actual square footage of gates shall be determined by measuring the clear opening between the inside faces of the two gate posts and multiplying by the nominal height of the fence.

3. The unit price bid per each square foot of gates shall include the cost of furnishing all labor, materials, tools, equipment and incidentals necessary to satisfactorily complete the required work including gate posts, excavation, fill, restoration, grading, and shop drawings.
4. Payment of concrete for footings will be paid under Item 17A-Class A Concrete.

ITEM 733 - 35' HIGH ALUMINUM FLAGPOLE - INTERNAL HALYARD

A. Description.

1. Under this Item, the Contractor shall furnish and install 35' High Aluminum Flagpoles with internal halyards as described in the following Specification, as shown on Plans and/or as directed by the Engineer.

B. Submittals.

1. Submit two copies of manufacturer's shop drawings, installation instructions and maintenance procedures.

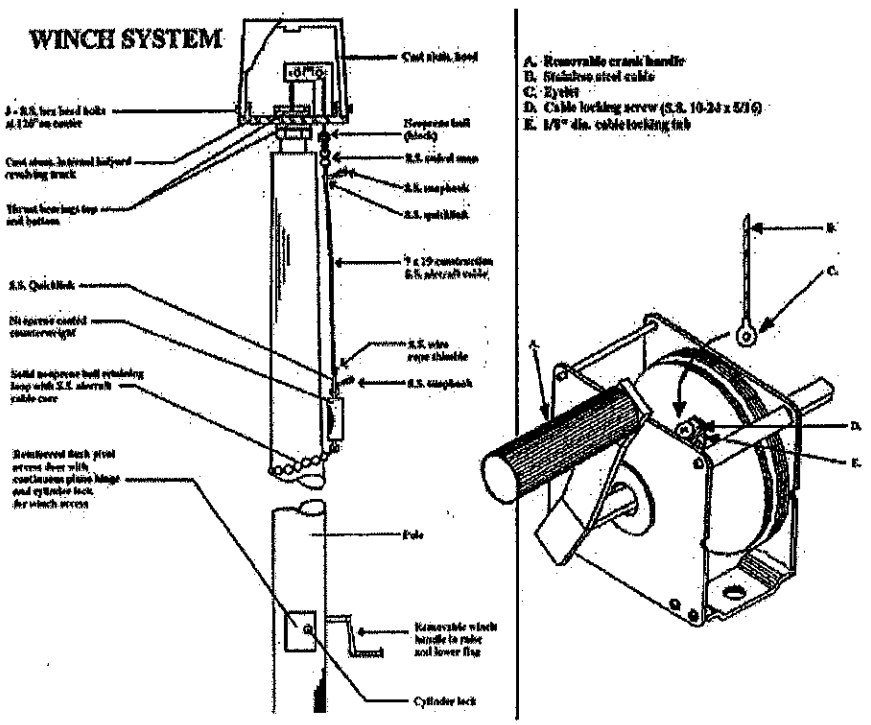
C. Materials and Construction Details.

1. The Contractor shall furnish and install 35' Exposed x 38'-6"Overall x 6" Butt x 3/16" Wall Thickness Tapered Aluminum Flagpole as manufactured by Pole Tech CO., Inc., 97 Gnarled Hollow Road, East Setauket, New York 11733, Web Site: www.poletech.com; Phone: (631) 689-5525; Fax (631) 689-5528 or approved equal and shall consist of the following:
2. **Pole.** Fabricated from seamless, extruded tubing complying with ASTM B241, alloy 6063-T6, with a minimum yield strength of 30,000 psi. The rate of taper is 1'" every 5'6". Polished Satin Brush Finish. A textured mechanical finish produced by abrasive polishing yielding a smooth and uniform appearance.
3. **Internal Winch System** - See Detail. A stainless steel cable is attached to a gearless positive locking winch that allows display of the flag at any position on the pole. The cable is routed over two pulleys inside the revolving truck and ends with a neoprene ball block to prevent jamming at the poles top. Then, an arrangement, the length of each flag to be flown, is attached. At the bottom of this arrangement a beaded sling encircles the pole and keeps the flag tight against the flagpole. The neoprene-coated counterweight allows for proper lowering of the flag.
4. **Access.** A flush-hinged door with a cylinder lock is provided to access and maintain the winch and cable. The winch handle is removable and is used to raise and lower the flag through an access hole in the pole.
5. **Ball.** The ornamental ball shall be 6" in diameter and made of 14 gauge gold anodized aluminum.
6. **Ground Sleeve.** The ground sleeve is made of a 16 gauge corrugated galvanized steel tube. On the inside, at the bottom, 4 steel wedges are welded to center the pole upon installation. A 1/2" steel base plate is welded to the bottom with an 18" length x 3/4" diameter steel spike attached to act as lightning protection
7. **Foundation** - See Detail. The foundation shall be cast in accordance with the attached detail using concrete conforming to the requirements of and be paid for under Item 17A - Class A Concrete.
8. **Flag.** The United States flag shall be 6' x 10' made using durable heavyweight Dupont Solarmax nylon with embroidered stars and sewn stripes. The fly end shall

have four rows of stitching, the heading shall be made of canvas and the flag shall connect to the swivel snaps with two brass grommets.

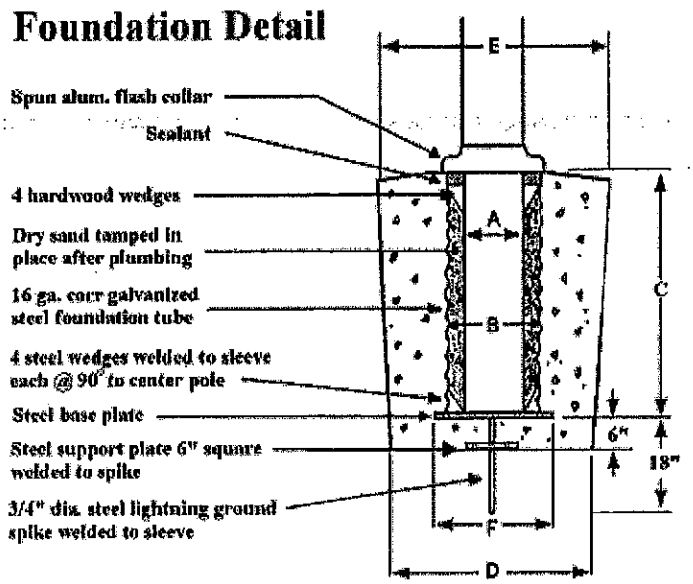
D. Measurement and Payment.

1. The quantity to be paid for under this Item shall be the number of 35' High Aluminum Flagpoles with internal halyards furnished and installed. The unit bid price shall include, but not be limited to all necessary labor, materials, tools, supplies, equipment and incidentals necessary to complete the work.
2. Payment of concrete for footings will be paid under Item 17A-Class A Concrete.



Flagpole		A	B	C	D	E	F
EXPOSED HEIGHT	OVERALL LENGTH	POLE BUTT	SLEEVE DIA	SLEEVE LENGTH	FOUNDATION BASE	FOUNDATION TOP	BASE PLATE
35'	38.5'	6/7"	10"	42"	30"	36"	14"

Foundation Detail



ITEM 734 - PARK LIGHTING

A. Description.

1. Under this Item, the Contractor shall furnish all labor, tools, materials and equipment necessary to install in place, Park Lighting in accordance with the Plans, Specifications and as directed by the Engineer.

B. Materials.

1. **Model.** Parklite Luminaire on Nassau Pole as manufactured by Magniflood Inc., 7200 New Horizons Boulevard, North Amityville, NY 11701; Phone: (631) 226-1000; Fax: (631) 226-4444; Web Site: http://www.magniflood.com or approved equal.

   a. **Parklite-2 Luminaire.**

      1) **Material.** The cage and base mounting shall be cast aluminum and the cage shall be welded to form a vandal resistant Luminaire.

      2) **Finish.** TGIC polyester acrylic powder coat in MagniBlack.

      3) **Reflector.** The microfinished reflector tower in conjunction with the upper dome reflector create a Type V lighting distribution making the entire fixture appear as if it's aglow.

      4) **Lens.** The lens shall be a polycarbonate injection molded diffuser allowing for uniform Type V lighting distribution. The Luminaire shall include a high pressure sodium 150 watt bulb.

      5) **Electrical.** The ballast shall be a standard 120 volt, 60 hz reactor type. The fixture shall be a mogul base lamp in a glazed porcelain 4KV pulse rated socket. The luminaire shall be manufactured to meet UL Standard 1598 for wet locations.

   b. **Nassau Pole.**

      1) **Material.** The base and fixture tenon adapter shall be fabricated from cast aluminum. The column shaft shall be extruded 6063-T6 aluminum.

      2) **Finish.** TGIC polyester acrylic powder coat in MagniBlack.

      3) **Dimensions.** The total pole height shall be 12' and the post base diameter shall be 17".

      4) **Mounting.** The bolt circle of the base mounting casting shall consist of four slotted openings allowing for adjustability in the 11 ½" bolt circle diameter. The anchor bolts shall be ¾" x 30" galvanized steel with 3" hooks.

      5) **Access Door.** The access door shall be secured by heavy duty galvanized tamper proof screws.

C. Construction Details.

1. **Pole Foundation.** The Contractor shall furnish and install one 18" diameter x 36" deep concrete foundation. It shall be rough cast using concrete conforming to the requirements of and be paid for under Item 17A - Class A Concrete.
2. Orient anchor bolts in accordance with manufacturers guidelines. Set anchor bolts using template provided by pole manufacturer. Set all poles plumb and level. Fill the annular space between pole base and pavers with non-shrink metallic aggregate grout, Embeco 885 by Master builders technologies or an approved equal.
3. The Contractor shall connect all wiring to the pole and provide all internal wiring from the base of the pole to the fixture. Wiring shall be type XLP-USE, 10 AWG, minimum; provide fused connection at the handhole, Bussman HEB-AA fuseholder and Bussman #FNM-10 amp fuse. All of the labor associated with the energizing shall be paid for under the Force Account Work item.
4. Protect all protruding bolts until poles are set in place with standard 36" high reflectorized roadway cone. Anchor in place.

D. Measurement and Payment.

1. The quantity to be paid for under this Item shall be the actual number of Park Lights furnished and installed in accordance with the Plans, Specifications and as directed by the Engineer.
2. The unit price bid for each shall include the cost of all labor, materials, tools, equipment, and other incidentals necessary to satisfactorily complete the required work, except the following:
   a. Concrete for footing will be paid under Item 17A-Class A Concrete.
   b. Energizing from nearest power supply point will be paid under Force Account Item 144.

ITEM 735 - BARRIER FREE WATER FOUNTAINS

A. Description.

1. Under this Item, the Contractor shall furnish all labor, tools, materials and equipment necessary to install in place, Barrier Free Water Fountains in accordance with the Plans, Specifications and as directed by the Engineer.

A. Materials and Construction Details.

1. Model. 4590 Sanitary FR as manufactured by Halsey Taylor, 2222 Camden Court, Oak Brook, Illinois 60523; Phone: 630-574-3500; Fax: 630-574-3503; Web Site: www.halseytaylor.com or approved equal.
   a. **General.** The pedestal shall be weather-resistant exposed Sierra™ stone aggregate. The contour-formed basin with rounded corners and edges reduces splatter, insures proper drainage and prevents standing waste water. The fountain shall be designed to be easily accessible to both physically challenged and able-bodied individuals. This model meets state and federal requirements as defined by the Americans with Disabilities Act.
   b. **Sanitary Freeze-Resistant Valve System.** The assembly shall be fully sealed to minimize chance of ground water contamination and prevent drain water from mixing with fresh water. Freeze-resistant valve shall be designed for ground installation 18" below the frost line.
   c. **Bubbler.** The unit shall include a one-piece, vandal-resistant, chrome plated two-stream mound-building bubbler with non-removable anti-squirt feature and integral hood to insure a satisfying drink of water.
   d. **Pushbutton Actuation Mechanism.** The front mounted push button shall be self closing and vandal-resistant so as not to require grasping or twisting.
   e. **Automatic Stream Height Regulator.** To prevent tampering, the Stream height regulator shall be located inside sanitary freeze-resistant valve system. The unit shall resist corrosion and liming. A constant stream height shall be automatically maintained under line pressures that vary from 20 to 105 psi.
   f. **Water Inlet.** 1/2" male NPT fitting.
   g. **Drain Outlet.** Drain requirements are detailed in owner's manual.
   h. **Access Panel.** Manufactured of heavy-gauge steel with vandal resistant screws. Provides access for easy hook-up of all plumbing connections.
   i. The fountain shall comply with ANSI 117:1 and ADA for visual and motion disabilities. The manufacturer shall certify the unit to meet the requirements of NSF/ANSI 61 and the Safe Drinking Water Act.

B. Construction Details.

1. Barrier Free Water Fountains shall be installed on cement concrete pads and secured using four (4) ½" x 4" anchor bolts. The concrete pads shall conform to Item 27 - Cement Concrete Sidewalk and be paid for under Item 27.

2. Fountain shall be furnished with service valve. Assemble fountain to prepared site and mounting pad. Position pedestal over plumbing and secure base to anchor bolts. Remove access panels and connect supply and water lines. Turn on water supply and check for leaks. All plumbing work, including supply water and drain outlet shall be performed by a licensed plumber and shall be paid for under the Force Account Work Item, based on site condition.

C. Measurement and Payment.

1. The quantity to be paid for under this Item shall be the actual number of Barrier Free Water Fountains furnished and installed in accordance with the Plans, Specifications and as directed by the Engineer.
2. The unit price bid for each shall include the cost of all labor, materials, tools, equipment, and other incidentals necessary to satisfactorily complete the required work.

ITEM 736 - PARK BENCHES WITH BACKS

A. Description.

1. Under this Item, the Contractor shall furnish all labor, tools, materials and equipment necessary to install in place, Park Benches with Backs in accordance with the Plans, Specifications and as directed by the Engineer.

B. Materials.

1. **Model.** CY420D - 6' Bench - Surface Mounted - Diamond as manufactured by Wabash Valley Manufacturing, Inc., 505 E. Main Street, P.O. Box 5, Silver Lake, IN 46982; Phone: (800) 253-8619; Fax: (260) 352-2160; Web Site: http://www.wabashvalley.com or approved equal.
   a. **Finish.** The Inner metal structure shall be heat fused polyvinyl coated to an approximate thickness of 3/16". The framework assemblies shall be powder coated - electrostatically applied and oven cured. Fasteners shall be stainless steel.
   b. **Bench Leg.** The bench leg thickness shall be 1 ½" and the foot pads are 5 1/8" long x 2 3/8" wide. The overall height shall be 33 1/4".
   c. **Bench Seat.** Bench seats shall be fabricated from ¾" x 9 gauge steel mesh expanded metal. The frame/mounting brackets shall be 10 gauge sheet metal. The rolled sides shall be supported using ¼" x 1 ¼" steel flat bar.
   d. **Footprint.** 29" x 75 1/8".

C. Construction Details.

1. Park benches shall be installed on cement concrete pads and secured using SG135N - Surface Mount Package and four (4) anchor bolts. The concrete pads shall conform to Item 27 - Cement Concrete Sidewalk and be paid for under Item 27.

D. Measurement and Payment.

1. The quantity to be paid for under this Item shall be the actual number of Park Benches with Backs furnished and installed in accordance with the Plans, Specifications and as directed by the Engineer.
2. The unit price bid for each shall include the cost of all labor, materials, tools, equipment, and other incidentals necessary to satisfactorily complete the required work.

ITEM 737 - PARK PICNIC TABLES WITHOUT BACKS

A. Description.

1. Under this Item, the Contractor shall furnish all labor, tools, materials and equipment necessary to install in place, Park Picnic Tables without Backs in accordance with the Plans, Specifications and as directed by the Engineer.

B. Materials.

1. **Model.** PP240D – 6' Rectangular Table without Back - Diamond as manufactured by Wabash Valley Manufacturing, Inc., 505 E. Main Street, P.O. Box 5, Silver Lake, IN 46982; Phone: (800) 253-8619; Fax: (260) 352-2160; Web Site: http://www.wabashvalley.com or approved equal.
   a. **Finish.** The Inner metal structure shall be heat fused polyvinyl coated to an approximate thickness of 3/16". The framework assemblies shall be powder coated - electrostatically applied and oven cured. Fasteners shall be stainless steel.
   b. **Table Frame.** Main supports shall be constructed of 2 3/8" O.D. x 12 gauge galvanized structural steel tubing. Mounting bracket on legs shall be ¼" thick galvanized steel plate.
   c. **Top and Seat.** Table tops and bench seats shall be fabricated from ¾" x 9 gauge steel mesh expanded metal. The top and seat frame/mounting brackets shall be 10 gauge sheet metal. The top center support brace, which run the length of the top shall be ¼" x 1 ½" steel flat bar. The ends of the rolled sides of the top and seat shall be supported using ½" diameter steel rods. The seats shall be supported on the underside of the seat's crease using ¼" x 1 ½" steel flat bar.
   d. **Footprint.** 79 ½" x 72 1/8".

C. Construction Details.

1. Picnic tables shall be installed on cement concrete pads and secured using four (4) anchor bolts. The concrete pads shall conform to Item 27 - Cement Concrete Sidewalk and be paid for under Item 27.

D. Measurement and Payment.

1. The quantity to be paid for under this Item shall be the actual number of Park Picnic Tables without Backs furnished and installed in accordance with the Plans, Specifications and as directed by the Engineer.
2. The unit price bid for each shall include the cost of all labor, materials, tools, equipment, and other incidentals necessary to satisfactorily complete the required work.

ITEM 738 - PARK RECEPTACLES

A. Description.

1. Under this Item, the Contractor shall furnish all labor, tools, materials and equipment necessary to install in place, Park Receptacles in accordance with the Plans, Specifications and as directed by the Engineer.

B. Materials.

1. Model. 9W37 Infinity Square Funnel or Dome Top Frame - 35 Gallon Receptacle,Rubbermaid Commercial Products LLC, 3124 Valley Avenue, Winchester, VA 22601; Phone: (540) 667-8700; Fax: (540) 542-8770; http://www.rubbermaidinfinity.com/ or approved equal.
   a. **Frame.** ABS resin base to preclude rust stains
   b. **Panels.** Infinity 35 Gallon Square Perforated Panel Kit - 4 (four) panels and 4 (four) uprights with automotive paint finish.
   c. **Lid.** Infinity Square Funnel Top for 35 gallon frame or Infinity Square Dome Top as required.
   d. **Footprint.** 23 1/2" Square.

C. Construction Details.

1. Receptacles shall be installed on cement concrete pads conforming to Item 27 - Cement Concrete Sidewalk. Payment to be made under Item 27.

D. Measurement and Payment.

1. The quantity to be paid for under this Item shall be the actual number of Park Receptacles furnished and installed in accordance with the Plans, Specifications and as directed by the Engineer.
2. The unit price bid for each shall include the cost of all labor, materials, tools, equipment, and other incidentals necessary to satisfactorily complete the required work.

ITEM 744 - FORCE ACCOUNT WORK

A. Description.

1. The amount estimated for the work under this Item is approximate and may be less or greater than the amount of the force account work indicated on the bid sheets. The amount will be based on the Force Account Work actually performed during the term of the contract with prior written approval of the Commissioner.
2. The use of this Item will require prior authorization of the County for each individual Force Account Work to be performed under this contract.

B. Materials and Construction Details.

1. Materials incorporated into the force account work shall be approved by the Engineer prior to installation. When no applicable contract unit prices exist, material costs shall be reimbursed based upon acceptable receipts and/or invoices plus markup, as per the requirement of contract documents, and as approved by the Commissioner of Public Works.

C. Method of Measurement.

1. All work performed under this Item shall be either on a not to exceed agreed upon unit price or lump sum cost per force account item or on a Time and Material basis plus applicable overhead and profit as stipulated within the Contract Documents and will be inspected and measured by the Engineer on a daily basis and signed off by the Contractor.

D. Basis of Payment.

1. Under this Item, all provisions as incorporated in the Contract concerning payment for extra or additional work are applicable. Total payment for this Item is subject to the requirements and conditions of this contract.
2. The amount to be paid for each type of Force Account Work per work order shall be based (see Method of Measurement, Section C.1.) upon the actual work satisfactorily completed and/or materials/machines furnished and approved in accordance with the requirements of the Contract documents.

ITEM 751 - SYNTHETIC TURF FIELD WITH UNDERDRAIN

A. Description.

1. Under this Item, the Contractor shall furnish all labor, materials, tools and equipment necessary to install, all synthetic turf, underdrain system and infill materials as indicated and as specified herein. The installation of all new materials shall be performed in strict accordance with the manufacturer's written installation instructions and in accordance with the approved shop drawings.

B. Submittals

1. **Product Data.** The Contractor shall submit information/cut sheets for each type of product indicated.
2. **Shop Drawings.** Show fabrication and installation details for synthetic turf and underdrain system, including plans, elevations, sections, details and attachments to other work.
3. **Samples for Verification.** For the following products, in manufacturer's standard sizes:
   a. A minimum of 10" x 6" finished product sample of the exact synthetic turf and infill system that is specified for this Project.
   b. Sand / Rubber mix with proper mix ratio, if different than specified.
4. **Manufacturer's Certificates.** Provide a certified list of fifteen (15) installations of 65,000 square feet or more of this specific type infill system, all being located in the United States in locations similar in climate to the Northeast USA. The fields shall not have been constructed over an e-layer (elastic layer) of a formed underpad.
5. **Warranties.**
   a. **Third Party Insured Warranty.** The Bidder must supply a sample of the prepaid, Third party Insured Warranty with a $5,000,000.00 aggregate per year that guarantees the usability and playability of the synthetic surface for eight years including:
      1) Coverage Term will be Ninety Six (96) months from the date of completion for all jobs completed.
      2) Limit of Liability: Minimum of $5,000,000 for all fields installed during the 12 month period and no deductible shall apply to the warranty holder.
      3) Premium: Premium is pre-paid for the full term of the warranty period or 96 months.
      4) Period of indemnity to commence upon acceptance of the project by the owner or at the time the turf field is used for its intended purpose, whichever first occurs.

5) Bankruptcy or Insolvency: Bankruptcy or insolvency of the Insured or of the insured's estate shall not relieve the insurance company of any of its obligations under its Policy.

6) Security: Underwriter - Insurance Company is rated by AM Best "Secure" (A-) or higher.

b. **Manufacturer's Warranty.**

1) The 8 year Manufacturer's Warranty shall include coverage for damage caused from UV degradation or defects in workmanship and materials in the manufacturing or installation of the synthetic turf.

2) All turf warranties shall be limited to repair or replacement of the affected areas, at the Manufacturer's option, and shall include all necessary materials, labor, transportation costs, etc. to complete the required repairs.

c. **G-Max Warranty.** Turf must maintain an ASTM F355, G-Max no greater than a level of 175 for the life of the warranty. Contractor shall provide third-party testing results twice annually as directed by Owner.

d. Synthetic turf system shall be approved as ADA Handicap accessible as determined by Test Method - ASTM 1951 for determination of accessibility of surface under and around playground equipment. The source, material description, gradation and sample of all items in the materials section shall be provided for County approval.

C. **Quality Assurance.**

1. **Installer Qualifications.** The Contractor must be or engage an authorized representative of synthetic turf manufacturer for installation and maintenance of units required for this Project. Cost shall be included in price bid for this item.

2. **Source Limitations.** Obtain synthetic turf through one source from a single manufacturer.

3. All components and their installation method shall be designed and manufactured for use on outdoor athletic fields. The materials as hereinafter specified, should be able to withstand full climatic exposure in the Northeast USA, be resistant to insect infestation, rot, fungus and mildew; to ultra-violet light and heat degradation, and shall have the basic characteristic of flow through-drainage allowing free movement of surface run-off through turf and directly into the prepared granular base and into the field drainage system.

4. The synthetic turf and components shall be of national reputation with previous use at all levels of competition, including professional and collegiate levels and shall have been in use for a period of not less than one year. The turf fabric shall be produced by the manufacturer.

5. Prior to Project start, the Contractor and manufacturer shall specify in writing that their turf system does not violate any other manufacturers' patents, patents allowed or patents pending.

6. Prior to the beginning of installation, the manufacturer of the synthetic turf shall inspect the sub-base and supply a Certificate of Sub-base Acceptance for the purpose of obtaining manufacturer's warranty for the finished synthetic playing surface.
7. The manufacturer must be a member of the "Synthetic Turf Council".

D. Project Conditions.

1. **Weather Limitations.** Proceed with installation only when existing and forecasted weather conditions permit synthetic turf to be performed according to manufacturers' written instructions and warranty requirements.
2. **Field Measurements.** When Engineering plans are not provided, the Contractor must submit shop drawings and/or plans showing the proposed field and dimensions.

E. Manufacturer.

1. The synthetic turf field system shall be manufactured by one of the following companies:
   a. A-Turf, Inc., 505 Aero Drive, Cheektowaga, NY 14225
   Phone: (716) 204-0748; Toll Free: (888) 777-6910; Fax: (716) 204-0189
   E-Mail:-.-:c aiurLc.cn:
   b. FieldTurf Tarkett, 8088 Montview, Montreal, Quebec H4P 2L7, Canada
   Phone: (514) 340-9311; Toll Free: (800) 724-2969; Fax: (514) 904-9311
   E-Mail: infofieldturf.com
   c. Sprinturf, Inc., 1200 Liberty Ridge Drive, Wayne, Pennsylvania, 19087
   Phone: (610) 828-6500; Toll Free: (877) 686-8873; Fax: (610) 828-7925
   E-Mail:EntDidcsoriniuni-?Dir,or approved equal.

F. Materials.

1. Synthetic Turf with in-fill.

a. The 100% polyethylene fiber shall be consist of a spinneret mono-filament fiber, and may include a mono-filament tape fiber in duel fiber systems. The spinneret monofilament fiber material must be a minimum of 10,000 denier and the tape monofilament fiber material must be a minimum of 8,500 denier.

b. The fiber shall be between 2 1/4" to 2' " long and consist of a minimum of 44 ounces of fiber per square yard.

c. The primary backing shall be a minimum of 8.5 ounce per square yard and consist of a minimum of two layers of material of woven and or non-woven fabrics or a combination of both. The backing must be heat and UV resistant, providing dimensional stability in all directions, to prevent stretching, shrinking, creeping and line distortion.

d. The secondary backing shall consist of a heat activated polyurethane coating weighing a minimum of 20 ounces per square yard. The backing shall be heat punched to create a grid of drainage perforations on 2" x 2'/a' centers to maximize drainage.

e. Install a resilient infill system consisting of a 70% homogenous mixture of specifically sized 10-20 sieve recycled crambient SBR rubber granules and 30% of specifically sized, rounded, washed and kiln dried silica sand. The sand content shall represent no more than 30% by weight of the total infill system.

2. **Perimeter Nailer.**

   a. 6" x 6" (or as approved by the engineer) recycled plastic lumber perimeter edge nailer (Refer to Item 757 for payment and item specification).

3. **Porous Stone Base and Drainage System.**

   a. Provide a semi-pervious geotextile fabric, Mirafi 140N or approved equal. An impervious liner may be specified by order of the Engineer only in poorly drained soil conditions.

   b. The stone aggregate shall be installed in two layers:

      1) 5 3/4" open graded stone (OGS) base aggregate

      2) 1/4" finish aggregate with the following gradation:

	(OGS) BASE	FINISH
Sieve Size	**% Passing**	**% Passing**
1 1/4"	100	
3/4"	70-100	
3/8"	35-50	
1/4"		100
1/8"		80-100
#4	20-35	
#8		40-65
#16	12-20	15-35
#100	5-9	5-9
#200	1-5	1-5

6. **Drainage Piping**

   1) Panel Drains: 1"x12" Multi-Flow or approved equal.

   2) Perimeter Drain: Properly sized to six (6") inch to twelve (12") inch diameter of HDPE, ADS N-12 or approved equal.

G. Construction Details.

1. **Subgrade.**

   a. **Preparation of Subgrade.** All topsoil, organic, and non-compactable materials need to be removed to a minimum depth of eight (8") inches below the soil bed. If unsuitable soil is encountered the Engineer shall be notified. If additional excavation of unsuitable material is required, this shall be in conformance with and paid for under Item 2, Unclassified Excavation. If acceptable fill is not

available on-site, the fill required to raise the subgrade to the proper elevation shall be in conformance and paid for under Item 5C, Selected Fill.

b. The subgrade must have a minimum slope of 0.5% and a maximum slope of 1.0%, depending on the soil analysis, from the longitudinal center of the field towards the sidelines.

c. The subgrade must be compacted in both directions to attain the specified compaction rate of 95% standard Proctor.

d. The subgrade must be prepared to tolerances of not more than 1/2" from design grade to allow for even drainage. The cost of fine grading the subgrade shall be paid for under Item 7 - Preparing Fine Grade.

2. **Porous Stone Base and Drainage System.**

a. A geotextile fabric shall be installed over a compacted and prepared sub-grade. Seams shall be overlapped a minimum of twelve (12") inches. The geotextile shall extend into and completely wrap the perimeter drainage trench.

b. Multi-flowTM 1"x12" panel drains or approved equal shall be installed and secured over the geotextile, thirty (30') feet on center, diagonally across the playing field in a herringbone design. The drains shall be terminated at the perimeter drain.

c. A properly sized perimeter drain, 6" to 12" in diameter, shall be installed in a properly excavated ditch, lined with geotextile. The CPPP (corrugated perforated plastic pipe) shall be sloped 0.05" per lineal foot toward the exit point to the existing storm drain.

d. The base (OGS) aggregate layer shall be installed with care to avoid damaging the geotextile or the strip drains. The stone shall conform to the sieve in Section F.3.b.2). The base (OGS) layer shall be 5 3/4" thick. The surface planarity shall not vary more than 3/8" in any direction.

e. Laser guided grading of the stone base is mandatory.

f. The finish aggregate layer is one-quarter ('A") inch thick and shall be installed in a single layer. The stone shall conform to the sieve in Section F.3.b.2. The surface planarity must not vary more than one-quarter (C") inch in any 10' direction. Enough finish stone shall be installed to insure a full one-quarter (1/4") inch above the base (OGS) aggregate. All stone layers must be rolled in both directions to obtain maximum compaction and settlement.

g. The finished stone base must be accepted by the turf manufacturer for planarity.

3. **Perimeter Edge Nailer.**

a. A perimeter edge nailer shall be installed along the entire perimeter boundary of the synthetic turf field as shown on Project drawings and installed as per the manufacturer's specifications.

b. The perimeter edge nailer shall be paid under Item 757.

4. **Examination by the Manufacturer.**
   a. Examine substrates and conditions, with Installer present, for compliance with requirements for maximum moisture content, installation tolerances, and other conditions affecting performance of work.
   b. Proceed with installation only after unsatisfactory conditions have been corrected.
   c. The surface to receive the synthetic turf shall be inspected and certified by the manufacturer as ready for the installation of the synthetic turf system and must be perfectly clean as installation commences and shall be maintained in that condition throughout the process. The final subbase surface shall be surveyed by the Contractor by means of a laser level on a 25 foot grid shot.
   d. The installation shall be performed in full compliance with approved shop drawings. Only factory-trained technicians skilled in the installation of athletic caliber synthetic turf systems, working under the direct supervision of the manufacturer's supervisors, shall undertake the placement of the system. The designated Supervisory personnel on the Project must be certified, in writing by the turf manufacturer, as competent in the installation of this material, including sewing seams and proper installation of the infill mixture. The manufacturer shall certify the installation for warranty compliance.
   e. The surface to receive the synthetic turf shall be inspected and certified by the manufacturer as ready for the installation of the synthetic turf system and must be perfectly clean as installation commences and shall be maintained in that condition throughout the process.
5. **Synthetic Turf with In-Fill.**
   a. The turf rolls are to be installed directly on the laser graded stone base. Extreme care should be taken to avoid disturbing the aggregate base. A 2-5 ton static roller shall be used compact the base ahead of the placement of each roll of turf.
   b. Full width rolls shall be laid out across the field. Using "state of the art" gluing or sewing techniques each roll shall be attached to the next. When all of the rolls of the playing surface have been installed, the sideline rolls shall be installed at right angles to the playing surface rolls. There shall be no "head seams" permitted in the playing area.
   c. The infill mixture shall be evenly spread with large drop spreaders, minimum 5' wide, in multiple layers. Between each layer, the fiber shall be brushed or dragged to insure that fibers are not trapped by the infill.
   d. The markings on the field shall be inlaid or factory tufted. All inlays will be installed using state of the art gluing techniques.
   e. The average G-max of the finished system must remain under 175 G's for the life of the warranty period.

f. On completion of the surface the fiber shall be approximately three-quarters (¾") of an inch above the finished infill. The finished surface will have the planarity and subtle undulations, similar to a typical natural grass athletic field.

g. All field markings shall be installed in accordance with manufacturer's specifications and paid under their respective items.

H. Field Quality Control.

1. Testing Agency. The Contractor shall provide a qualified independent testing and inspecting agency, approved by County, to perform field tests and inspections and prepare test reports.
2. Testing Services. Testing and inspecting of completed applications of synthetic turf system shall take place in successive stages, in areas of extent and using methods as follows. Do not proceed with application of the next stage until test results for previously completed applications show compliance with requirements.
3. Remove and replace applications where test results indicate that it does not comply with specified requirements.

I. Final Acceptance.

1. Prior to Final Acceptance, the Contractor shall submit to the County three (3) copies of Maintenance Manuals, which will include all necessary instructions for the proper care and preventative maintenance of the synthetic turf system, including painting and striping.
2. The Contractor shall provide evidence that the turf can be plowed with conventional rubber bladed snow removal equipment.
3. The finished playing surface shall appear as mowed grass with no irregularities and shall afford excellent traction for conventional athletic shoes of all types. The finished surface shall resist abrasion and cutting from normal use.
4. Contractor shall perform a GMAX test at the completion of installation and prior to final acceptance to demonstrate compliance with an ASTM F355 GMAX of less than or equal to 175.
5. Turf Groomer. The Contractor shall provide a turf groomer sweeper as recommended by the synthetic turf manufacturer. The groomer cost shall be included in the bid price for this item and shall only be provided to the County for full size youth/adult athletic fields.

J. Cleaning.

1. Contractor shall provide the labor, supplies and equipment as necessary for final cleaning of surfaces and installed items. All usable remnants of new material shall become the property of the County. The Contractor shall keep the area clean throughout the Project and clear of debris. Surfaces, recesses, enclosures, etc., shall be cleaned, as necessary, to leave the work area in a clean, immaculate condition ready for immediate occupancy and use by the County.

K. Measurement and Payment.

1. The quantity to be paid for shall be the number of square feet of artificial turf field surface, completed and measured in place and accepted in accordance with the provisions of these Specifications. The unit price bid shall include, but not limited to, all necessary excavation, select granular fill (except as stated in Section G-1), compaction, underdrain system, connection to storm water retention area with corrugated polyethylene pipe, synthetic grass system, resilient infill, geotextile fabric, stone base, finishing stone, compaction, other incidentals necessary as specified herein, and all labor, materials, tools, supplies, equipment, shop drawings, testing and other incidentals necessary to complete the work.

ITEM 752 - UPGRADE TO COLORED INFILL

A. Description.

1. Under this Item the Contractor shall upgrade the infill specified in Item 751 - Synthetic Turf Field with Underdrain System, with a colored infill.

B. Materials.

1. The materials used shall be identical to those specified in Item 751 - Synthetic Turf Field with Underdrain System, except that the infill will be a colored infill of green, light brown or tan, as ordered by the Engineer.

C. Method of Measurement.

1. The method of measurement for Item 751 shall apply.

D. Basis of Payment.

1. This unit price bid for this Item shall be limited to the additional cost of material to provide a colored infill in lieu of the infill specified in Item 751.

ITEM 753 - SPORTS FIELD STRIPING

A. Description.

1. Under this Item, the Contractor shall furnish all labor, tools, materials and equipment necessary to install sports field striping on various types of synthetic turf athletic fields as indicated and as specified herein. The installation shall be performed in strict accordance with the manufacturer's written installation instructions and in accordance with all approved shop drawings.

B. Related Documents.

1. All requirements of Item 751, Synthetic Turf Field with Underdrain, shall apply, including but not limited to materials, quality assurance, project conditions, warranty, etc.

C. Submittals.

1. Shop Drawings shall be submitted for all striping layouts.
2. The Contractor shall submit two (2) - 4" x 12" samples of all striping colors intended in use of field.

D. Construction Details.

1. The installation of sports field striping shall be performed in strict accordance with the manufacturer's written installation instructions and in accordance with all approved shop drawings.

E. Measurement and Payment.

1. The quantity to be paid under this Item shall be the actual linear feet of striping installed to the nearest linear foot, completed and measured in place and accepted in accordance with the provisions of these specifications. In the event that the County elects to install numbers or other "striping" on the field that is not 4" wide, the total square footage of striping shall be divided by 4" to determine the equivalent linear footage. The unit bid price shall include, but not be limited to, all necessary labor, materials, tools, supplies, equipment, shop drawings and incidentals necessary to complete the work.

ITEM 754 - CUSTOM LOGOS, NUMBERS AND LETTERING

A. Description.

1. Under this Item, the Contractor shall furnish all labor, tools, materials and equipment necessary to install in place, County of Nassau logo, or other logos, numbers and lettering specified on the Plans provided for construction. They shall be the same type synthetic turf as installed within the field. Their installation shall be performed in strict accordance with the manufacturer's written installation instructions, and in accordance with all approved shop drawings.

B. Related Documents.

1. All requirements of Item 753, Sports Field Striping shall apply, including but not limited to materials, quality assurance, project conditions, warranty, etc.

C. Submittals.

1. Shop Drawings shall be submitted for all custom logos, numbers and lettering layouts, based upon artwork to be provided by the County of Nassau.
2. The Contractor shall submit two (2) - 12"x12" synthetic turf samples, in colors to be incorporated into the logo.

D. Construction Details.

1. The installation of synthetic turf logos, numbers and lettering shall be performed in strict accordance with the manufacturer's written installation instructions and in accordance with all approved shop drawings.
2. The Contractor shall fabricate the custom logos, numbers and lettering offsite and transport them to the proposed field and be installed in the same manner as specified in Item 751, Synthetic Turf Field With Underdrain.

E. Measurement and Payment.

1. The area to be paid shall be defined as a rectangle encompassing the outside boundary of each logo, number and letter, as approved by the Engineer.
2. The quantity to be paid under this Item shall be the number of square feet supplied and installed for each logo, number and letter. The unit bid price shall include, but not be limited to, all necessary labor, materials, tools, supplies, equipment, shop drawings and incidentals necessary to complete the work.

ITEM 755 - HEAVY DUTY NON-INFILL BATTING CAGE TURF

A. Description.

1. Under this Item, the Contractor shall furnish all labor, materials, tools and equipment necessary to install Heavy Duty Non-Infill Batting Cage Turf as specified herein. The installation of all new materials shall be performed in strict accordance with the manufacturer's written installation instructions and in accordance with the approved shop drawings.

B. Materials.

1. The 100% texturized monofilament nylon fibers that comprise the synthetic turf system shall be 3/16" gauge, 5,700 denier and tufted to a minimum of 48 oz. per square yard.
2. The texturized nylon fibers shall be tufted to a double backing consisting of woven polypropylene layers.
3. The synthetic turf system shall consist of a nominal 3/8" pile height texturized nylon monofilament weighing no less than 48 oz. per square yard.
4. The synthetic turf fibers shall be tufted through a minimum double layered polypropylene primary backing and coated with a 5mm urethane foam pad. The secondary backing shall consist of a 5mm urethane pad measuring no less than 90 oz. per square yard.

C. Construction Details.

1. The non-infill synthetic turf system shall be glued to an existing concrete base utilizing Nordot 34N, Chapco 7/11 or approved equivalent.
2. The finished base must be accepted by the turf manufacturer for planarity. It shall not vary more than 1/8" in any 10' direction.
3. Any rolls wider than the manufactured width must be seamed together utilizing 12" wide seaming tape and high strength polyurethane adhesive such as Nordot 34G or an approved equivalent by the synthetic turf manufacturer.

D. Manufacturer's Warranty.

1. The Warranty shall include coverage for damage caused from UV degradation or defects in workmanship and materials in the manufacturing or installation of the synthetic turf for a period covering 5 years.
2. All turf warranties shall be limited to repair or replacement of the affected areas, at the Manufacturer's option, and shall include all necessary materials, labor, transportation costs, etc. to complete the required repairs.

E. Measurement and Payment.

1. The quantity to be paid for under this Item shall be the total number of square feet of Heavy Duty Non-Infill Batting Cage Turf furnished and installed in accordance with the Plans, Specifications and appropriate Standard Detail Sheet as approved and as directed by the Engineer.
2. The unit price bid per each square foot of Heavy Duty Non-Infill Batting Cage Turf and shall include the cost of furnishing all labor, materials, tools, equipment, shop drawings and incidentals necessary to satisfactorily complete the required work.

ITEM 756 - SYNTHETIC TURF REPAIR

A. Description.

1. Under this Item, the Contractor shall furnish all labor, tools, materials and equipment necessary to repair synthetic turf field areas as directed by the Engineer or County's Authorized Representative. The repairs shall be in accordance with manufacturer's repair procedures.

B. Related Documents.

1. All requirements of Item 751, Synthetic Turf Field with Underdrain shall apply, including but not limited to materials, quality assurance, project conditions, warranty, etc.

C. Warranty.

1. The Contractor will make repairs to the field for items not covered under the warranty. All corrective actions and turf replacement will be made in accordance with the manufacturer's specifications and those specifications outlined in Item 751, Synthetic Turf Field with Underdrain. All repairs will be made utilizing methods and materials that will not void the manufacturer's standard warranty.

D. Construction Details.

1. The Contractor shall first make an assessment of the field damage to determine if such a repair is covered under the manufacturer's standard warranty. The Contractor shall coordinate a site visit with the manufacturer's field representative on the County's behalf. If a repair is deemed to be outside the manufacturer's warranty, the Contractor shall make the repair as approved by the manufacturer and the County. Contractor shall remove and replace the synthetic turf and infill in accordance with the specifications, Item 751, Synthetic Turf Field with Underdrain and the manufacturer's specifications. With the approval of the County and the manufacturer, repair seams may be glued. The finished product shall match the existing grades and should be identical to the existing field, with the exception of ultraviolet degradation and natural discoloration.

E. Measurement and Payment.

1. The quantity to be paid under this Item shall be the number of square feet of synthetic turf installed for the repair as ordered by the Engineer. The unit bid price shall include, but not be limited to all necessary labor, materials, tools, supplies, equipment and incidentals necessary to complete the necessary work.

ITEM 757 - 6"x6" RECYCLED PLASTIC LUMBER PERIMETER EDGE NAILER

A. Description.

1. Under this Item, the Contractor shall supply and install a 6"x6" recycled plastic lumber perimeter edge nailer for the synthetic turf field where shown on the Plans or as ordered by the Engineer.

B. Materials.

1. 6" x 6" recycled plastic lumber
2. 2" x 4" recycled plastic lumber

C. Construction Details.

1. Contractor shall set perimeter edge nailer on subgrade as shown on drawings. The Contractor shall ensure nailer is straight and at the required grade.
2. Contractor shall nail 2" x 4" recycled plastic lumber to field face or 6" x 6" recycled plastic lumber in accordance with manufacturer's recommendations.

D. Measurement and Payment.

1. The quantity to be paid for under this Item shall be the number of linear feet of perimeter edge nailer as measured in place to the nearest foot. The unit bid price for this Item shall include the cost of all labor, materials, equipment and other incidentals required to complete the work in accordance with these specifications.

ITEM 758 - G-MAX TESTING

A. Description.

1. Under this Item the Contractor shall furnish all labor, tools, materials and equipment necessary to test synthetic turf fields shock absorbing characteristics (G-Max), as directed by the Engineer.

B. Submittals.

1. Provide testing company and their qualifications to be approved by the County.
2. Written report of all data, results, resultant summary and remediation recommendations (if applicable) within seven business days maximum from testing date.
3. Testing company must be a member of the Synthetic Turf Council.

C. Materials.

1. Testing material shall be the equipment recommended as per ASTM F 355.

D. Procedure.

1. The testing shall conform to ASTM F 355, "Standard Test Method for Shock-Absorbing Properties of Playing Surface Systems and Materials."
2. The test shall be performed at a minimum of six (6) specific drop locations, with a minimum of three (3) tests per location.

E. Measurement and Payment.

1. The total quantity to be paid for under this Item shall be each test performed at a field as directed by the Engineer. The unit bid price shall include, but not be limited to all necessary labor, materials, tools, supplies, equipment and incidentals necessary to complete the work.

ITEM 759 - ANTIMICROBIAL TREATMENT

A. Description.

1. Under this Item, the Contractor shall furnish all labor, tools, materials and equipment necessary to supply and apply antimicrobial treatment for synthetic turf athletic fields as directed by the Engineer.

B. Submittals.

1. Submit two (2) samples, 12"x12" in size, each of complete synthetic turf system with and without antimicrobial.
2. Certified copies of independent (third-party) laboratory reports on ASTM tests as follows.
   a. Antimicrobial Activity, E 2149-01
   b. Traction Characteristics, F 2333
3. Copy of the Manufacturer and Applicator insurance policy specifying aggregate levels of insurance coverage.
4. Application pattern diagram.

C. Warranty.

1. The antimicrobial manufacturer shall provide a Warranty to the County that covers the antimicrobial treatment for a period of one (1) year. The antimicrobial manufacturer shall verify that their onsite representative has inspected the application and that the work conforms to the manufacturer's requirements.
2. The antimicrobial manufacturer's warranty shall include general wear to the surface.
3. The antimicrobial manufacturer must verify the validity of the antimicrobial treatment at least once per year and provide a written analysis report to the field owner.
4. The manufacturer shall provide written documentation from the synthetic turf manufacturer attesting that the antimicrobial treatment is compatible with the synthetic turf system and will not void or otherwise change the synthetic turf system warranty.

D. Quality Assurance.

1. **Manufacturer Qualifications.** Company specializing in manufacturing coatings specified in this section.
   a. Antimicrobial product must be registered with the EPA;
   b. Technology must have 30 years or more of documented performance;
   c. The antimicrobial treatment must chemically bond to become a polymeric non-leachable coating.
2. **Product Assurances.**
   a. Antimicrobial treatment must be verifiable via quick non-destructive analysis.

3. **Application Assurances.**

   a. Product must be applied by Authorized Applicator that has undergone training and certification by Manufacturer.

   b. Manufacturer must demonstrate the antimicrobial treatment has been applied to all the graded sand, crumb rubber and the turf fibers.

E. Materials.

1. The Contractor shall use Turfaide — 1 year as manufactured by Coatings Specialists Group, 2849 Product Drive, Rochester Hills, Michigan, 48309; Phone. (248) 299¬2607, or approved equal.

2. **Product Requirements.**

   a. The antimicrobial shall impart a durable, long lasting layer of antimicrobial protection on the synthetic turf system including the blades of synthetic grass and infill components.

   b. The antimicrobial shall be invisible and odorless and shall attach to the synthetic grass fiber and sand or rubber infill component through a molecular bond.

   c. The antimicrobial shall not leach, dissipate or be absorbed by other organisms.

   d. The antimicrobial shall not contain heavy metals, polychlorinated phenols, enzymes or PCBs.

   e. The antimicrobial mode of action shall be mechanical-physical action.

   f. The antimicrobial mode of action shall not be chemical poisoning.

   g. The antimicrobial shall be effective against a broad spectrum of gram (+) and gram (-) bacteria, mold, mildew, fungi, yeasts and algae.

   h. The antimicrobial shall not create an environment that promotes adaptive microorganisms.

   i. The antimicrobial shall not negatively affect traction characteristics of the synthetic turf system.

   j. The antimicrobial shall not adversely affect the UV resistance of the athletic turf field.

   k. The antimicrobial must not diminish the durability of logo and marking paints.

   l. The antimicrobial must be resistant to maintenance products and paint removers used in the field.

   m. The antimicrobial must be resistant to groomers, drag brooms, debris removers and sweepers

   n. The antimicrobial shall be 100% compatible with rubber backing, adhesives, polyester thread and seam underlayments.

F. Application.

1. The synthetic surface to receive the topical antimicrobial coating shall be inspected by the applicator prior to the application and must be accepted by the applicator and the general contractor in writing. The acceptance will depend on the synthetic turf installer confirming that the turf system and infill component has been installed in accordance with the synthetic turf manufacturer's specifications.
2. The synthetic surface must be clear of any turf installation equipment or sporting equipment that may interfere with the application of the antimicrobial.
3. The applicator shall apply antimicrobial in accordance with manufacturer's instructions. The applicator shall strictly adhere to the application procedures outlined in the certification process from the manufacturer. Any variance from these requirements must be accepted in writing by a manufacturer's representative and submitted to the owner verifying that the changes do not in any way affect the warranty.
4. The application shall commence after the synthetic field installers onsite representative has concluded the installation of the turf and infill.
5. The applicator shall provide the labor and equipment necessary to complete the application procedures in accordance with the manufacturer's instructions.
6. The antimicrobial will be applied by a spray method.

G. Measurement and Payment.

1. The total quantity to be paid for under this Item shall be the number of square feet of the existing synthetic field surface that antimicrobial treatment is being applied. The unit bid price shall include, but not be limited to all necessary labor, materials, tools, supplies, equipment and incidentals necessary to complete the work, to the satisfaction of the Engineer or Authorized County Representative.

ITEM 760 - MAINTENANCE FOR TURF FIELDS INSTALLED UNDER THIS CONTRACT

A. Description.

1. Under this Item, the Contractor shall maintain synthetic turf fields and infill materials as indicated and as specified herein. The maintenance shall be performed in strict accordance with the manufacturer's written maintenance instructions.
2. This agreement is to include the maintenance of new synthetic turf field installed under this contract, after expiration of maintenance warranty period .
3. The Contractor must provide competent workmen skilled in synthetic grass. The designated supervisory personnel on the project must be certified, in writing by the turf manufacturer, as competent in the maintenance of this material.
4. It is the contractor's responsibility to coordinate with the County for scheduling of proposed maintenance.

B. Submittals.

1. Equipment. For each type of equipment used.
2. Evidence from the turf manufacturer stating that the contractor for the maintenance of the synthetic turf is certified by the manufacturer to maintain said turf.

C. Quality Assurance.

1. Prior to Engineer approval of the specified synthetic turf equipment, the Contractor and manufacturer shall specify in writing that their turf equipment does not violate any other manufacturer's patents, patents allowed or patents pending.

D. Project Conditions.

1. Weather Limitations. Proceed with maintenance only when existing and forecasted weather conditions permit synthetic turf to be performed according to manufacturer's written instructions and warranty requirements.

E. Warranty.

1. The contractor must obtain a letter from turf manufacturer that the proposed maintenance and equipment does not violate the current warranty.

F. Products.

1. **Turf Groomer.** The Contractor shall provide a turf grooming system, which consists of spiked wheels designed to penetrate the infill in order to loosen the infill without damaging the grass fibers and light raking tines attached to the rear of the unit designed to groom the exposed grass fibers to keep them from matting down excessively. Hydraulic driven rotary sweeper equipped with nylon bristles and drag brush shall be used. This equipment must be approved by the manufacturer.
2. **Utility Tractor.** Equipped with turf tires, approved by the manufacturer.

G. Procedure.

1. **Examination.**
   a. Examine substrates and conditions, for compliance with requirements of maintenance instructions as directed by turf manufacturer.
   b. Proceed with maintenance only after unsatisfactory conditions have been corrected.
   c. The maintenance shall be performed in full compliance as directed by turf manufacturer. Only factory-trained technicians skilled in the maintenance of athletic caliber synthetic turf systems, working under the direct supervisions of the manufacturer's supervisors, shall undertake the placement of the system. The designated supervisory personnel on the project must be certified, in writing by the turf manufacturer, as competent in the maintenance of this material. The manufacturer shall certify the maintenance and warranty compliance.
2. **Services.**
   a. **Frequency.**
      1) Maintenance shall be provided on an as needed basis as outlined by turf manufacturer.
         a) It is anticipated that maintenance will be performed eight times per year starting on or about April 15th and ending on or about November 15th.
   b. **Grooming.**
      1) Contractor must sweep entire field;
      2) Aerate the infill with specialized equipment;
      3) Drag entire field to assure proper level of infill;
         a) All of the above should be done in two directions, right angles from each other.
   c. Contractor shall remove all debris on field including chewing gum.
   d. Contractor shall supply and install additional infill materials as required in accordance with manufacturer's specifications.
   e. **G-Max Testing.**
      1) Contractor is required to perform testing twice annually, as directed by the County, meeting the requirements of ASTM F355 G-Max of less than 175.
      2) Contractor is required to perform any necessary remediation to comply with this requirement.
3. **Inspection.**
   a. Contractor must inspect entire field for damage, loose lines, high wear and deportment of infill and subbase conditions.

b. Contractor must supply to the owner a full written report of any deficiencies within twenty-four (24) hours.

H. Measurement and Payment.

1. The finished playing surface shall appear to the satisfaction of the County as mowed grass with no irregularities and shall afford excellent traction for conventional athletic shoes of all types. The finished surface shall resist abrasion and cutting from normal use.
2. The payment for this Item shall be the price per square foot of synthetic turf area to provide the routine maintenance in accordance with the Specifications.
3. This Item will be paid on a per visit basis to the bidder, as ordered by the Engineer.
4. The unit price bid shall include all labor, materials and equipment required to perform the routine maintenance.

ITEM 761 - MAINTENANCE FOR TURF FIELDS INSTALLED BY OTHERS

A. Description.

1. Under this Item, the Contractor shall maintain synthetic turf fields and infill materials as indicated and as specified herein. The maintenance shall be performed in strict accordance with the manufacturer's written maintenance instructions.
2. This agreement is to include the maintenance of synthetic turf field installed by Others.
3. The Contractor must provide competent workmen skilled in synthetic grass. The designated supervisory personnel on the project must be certified, in writing by the turf manufacturer, as competent in the maintenance of this material.
4. It is the contractor's responsibility to coordinate with the County for scheduling of proposed maintenance.

B. Submittals.

1. Equipment. For each type of equipment used.
2. Evidence from the turf manufacturer stating that the contractor for the maintenance of the synthetic turf is certified by the manufacturer to maintain said turf.

C. Quality Assurance.

1. Prior to Engineer approval of the specified synthetic turf equipment, the Contractor and manufacturer shall specify in writing that their turf equipment does not violate any other manufacturer's patents, patents allowed or patents pending.

D. Project Conditions.

1. Weather Limitations. Proceed with maintenance only when existing and forecasted weather conditions permit synthetic turf to be performed according to manufacturer's written instructions and warranty requirements.

E. Warranty.

1. The contractor must obtain a letter from turf manufacturer that the proposed maintenance and equipment does not violate the current warranty.

F. Products.

1. **Turf Groomer.** The Contractor shall provide a turf grooming system, which consists of spiked wheels designed to penetrate the infill in order to loosen the infill without damaging the grass fibers and light raking tines attached to the rear of the unit designed to groom the exposed grass fibers to keep them from matting down excessively. Hydraulic driven rotary sweeper equipped with nylon bristles and drag brush shall be used. This equipment must be approved by the manufacturer.
2. **Utility Tractor.** Equipped with turf tires, approved by the manufacturer.

G. Procedure.

1. **Examination.**
   a. Examine substrates and conditions, for compliance with requirements of maintenance instructions as directed by turf manufacturer.
   b. Proceed with maintenance only after unsatisfactory conditions have been corrected.
   c. The maintenance shall be performed in full compliance as directed by turf manufacturer. Only factory-trained technicians skilled in the maintenance of athletic caliber synthetic turf systems, working under the direct supervisions of the manufacturer's supervisors, shall undertake the placement of the system. The designated supervisory personnel on the project must be certified, in writing by the turf manufacturer, as competent in the maintenance of this material. The manufacturer shall certify the maintenance and warranty compliance.
2. **Services.**
   a. **Frequency.**
      1) Maintenance shall be provided on an as needed basis as outlined by turf manufacturer.
         a) It is anticipated that maintenance will be performed eight times per year starting on or about April 15th and ending on or about November 15th.
         b) The County may add additional services depending on usage of fields.
   b. **Grooming.**
      1) Contractor must sweep entire field;
      2) Aerate the infill with specialized equipment;
      3) Drag entire field to assure proper level of infill;
         a) All of the above should be done in two directions, right angles from each other.
   c. Contractor shall remove all debris on field including chewing gum and spray paint.
   d. Contractor shall supply and install additional infill materials as required in accordance with manufacturer's specifications.
   e. **G-Max Testing.**
      1) Contractor is required to perform testing twice annually, as directed by the County, meeting the requirements of ASTM F355 G-Max less than what is warranteed by the synthetic turf manufacturer.
      2) Contractor is required to perform any necessary remediation to comply with this requirement.

3. **Inspection.**

   a. Contractor must inspect entire field for damage, loose lines, high wear and deportment of infill and subbase conditions.

   b. Contractor must supply to the owner a full written report of any deficiencies within twenty-four (24) hours.

H. Measurement and Payment.

1. The finished playing surface shall appear to the satisfaction of the County as mowed grass with no irregularities and shall afford excellent traction for conventional athletic shoes of all types. The finished surface shall resist abrasion and cutting from normal use.
2. The payment for this Item shall be the price per square foot of synthetic turf area to provide the routine maintenance in accordance with the Specifications.
3. This Item will be paid on a per visit basis to the bidder, as ordered by the Engineer.
4. The unit price bid shall include all labor, materials and equipment required to perform the routine maintenance.

ITEM 762 - INTEGRAL COLOR PIGMENT FOR CEMENT CONCRETE

A. Description.

1. Under this item, the contractor shall furnish and mix color pigment into cement concrete at locations shown on the plans, or as directed by the Engineer.

B. Materials.

1. The pigment shall conform to "Integral Colors" as supplied by "Stampcrete International Ltd.", of Centereach, N.Y., or approved equal. The color to be used shall be as indicated on the plans or as directed by the Engineer.

C. Construction Details.

1. The pigment shall be added to, and thoroughly mixed into, the cement concrete prior to placement, to insure a consistent color throughout the concrete. Pigment shall be added at the rate of 12 pounds per cubic yard of concrete, or in accordance with the manufacturer's instructions, or as directed by the Engineer.

D. Method of Measurement.

1. The quantity to be paid under this item will be the number of pounds of pigment added to the cement concrete mix.

E. Basis of Payment.

1. The unit price bid shall include the cost of all labor, materials, and equipment necessary to complete the work, including cleaning residue of color pigment from the concrete truck. Imprinting and cement concrete will be paid for under their respective items.

ITEM 763 - IMPRINTING ON CONCRETE PAVEMENT OR SIDEWALK

A. Description.

1. Under this item the contractor shall modify the surface of newly placed cement concrete pavement or sidewalk to create a pattern as specified in the plans and/or as directed by the Engineer.

B. Construction Details.

1. Cement concrete pavement or sidewalk shall be placed at locations and dimensions shown on the plans and/or as directed by the Engineer, in accordance with Items No. 24, 27, 30, 32A, 32X and 7 as described in the Standard Specifications. At the appropriate time in the concrete curing process (as detailed in the specific treatment directions) the concrete surface shall be imprinted, stamped, or rolled such that the specified pattern is obtained. The contractor shall submit the recommended method of operation, containing dimensions of forms and/or rollers, timing of installation, and any other pertinent information to the Engineer for approval. Immediately after the surface finishing has been completed, the Impervious Membrane Method of curing shall be implemented, as detailed in the latest edition of the New York State Department of Transportation Standard Specifications.
2. Suppliers and/or Installers - Possible technology to complete this work is available from, but not limited to:
   a. Bomanite Corporation, P.O. Box 599, Madera, California 93639
   b. Quick Imprint Systems, P.O. Box 7, Goodman, Mo., 64850
   c. Stampcrete International Ltd., Centereach, N.Y., 11720

C. Method of Measurement.

1. The quantity to be paid under this item will be the number of square feet of imprinting on cement concrete pavement or sidewalk, in accordance with the plans and specifications, or as directed by the Engineer.

D. Basis of Payment.

1. The unit price bid per square foot for this item shall include the cost of furnishing all labor, materials, equipment and incidentals necessary to complete the imprint work to the satisfaction of the Engineer. Cement concrete pavement or sidewalk will be for paid under their respective items.

ITEM 764 - COLORED AND IMPRINTED ASPHALT

A. Description.

1. This work shall consist of furnishing and installing Colored and Imprinted Asphalt System, as manufactured by, Integrated Paving Concepts Inc., #102 - 17957 - 55 Ave. Surrey, BC V3S 6C4, Phone: (604) 574-7510, FAX: (604) 574-7520 or approved equal. Colored and Imprinted Asphalt System shall be installed on new Asphalt Concrete pavement installed as part of this contract under other items. The surface of the HMA shall be patterned and colored to create the appearance of hand laid decorative paving stones by an authorized StreetPrintTM applicator. Two areas will receive this treatment. First is roadway pavement that has been overlaid with new asphalt concrete pavement. The second is new mowstrip asphalt within raised median areas. Asphalt pavement texturing is a highly specialized process that requires the skill of a qualified applicator working with the proper equipment and applying highly specialized coating(s) designed specifically for application to asphalt pavement.

B. References.

1. ASTM D-4541 Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Tester. ASTM D-4060 Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser. ASTM D522-93A Standard Test Method for Mandrel Bend Test of Attached Organic Coatings. ASTM G-155 QUV Accelerated Weathering Environment. Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials. ASTM D-2486 MEK rub test for chemical resistance. ASTM E-303 British Pendulum test for friction. EPA 24 ASTM D3960-05 Volatile Organic Compounds.

C. Submittals.

1. The documents shall be submitted to the Engineer prior to installation:
   a. Proof of applicator's ability. A copy of the current year license as provided to the proposed applicator issued by a recognized authority in the execution of asphalt pavement texturing work.
   b. Failing that, at least 3 reference sites and written references from 3 previous customers for work performed by this applicator.
   c. A list of the major equipment to be used in the execution of the Work. This list will include the asphalt pavement reheat machinery, spray equipment, compactor(s) and templates.
   d. The name of the coating(s) and the coating supplier's name.
   e. Certified performance test results of the coating materials as outlined in Table 1.
   f. Confirmation of coating color(s).

D. Materials.

1. Coatings.

a. Properly designed asphalt pavement coatings have been scientifically formulated to provide the optimal balance of performance properties for a durable, long lasting color and texture to asphalt pavement surfaces. Some of these key properties include wet wear durability, crack resistance, fade resistance, adhesion, and friction properties. These properties must be backed up by a Certificate of Analysis from an independent laboratory or an equal document that certifies these performance properties.

b. The asphalt pavement coating must be environmentally safe and meet EPA requirements for Volatile Organic Compounds (VOC).

c. Only use asphalt pavement coatings from qualified pavement coating suppliers who can provide proof of these required performance properties.

2. Minimum Performance Properties of Asphalt Coating.

a. The following table outlines the minimum required performance properties of the asphalt pavement coating. These performance properties must be ascertained by a Certificate of Analysis issued by an approved testing facility

Characteristic	Test Specification	Minimum Required Results
Durability Taber Abrasion (cycles to wear-through)	ASTM D-4060 Abrasion Resistance of Organic Coatings (wet wear) 7 day cure, 24 hour soak; H-10 wheel	Wear Index (WI) < 5.0
Color stability		Brick color ΔE < 1.5
Flexibility: Mandrel Bend	ASTM D 522-93A Flexibility as measured by Mandrel bend 0.5mm thick sample passes 10 mm at 21°C 0.5mm thick sample passes 125mm at -18°C	
Chemical resistance	ASTM D-2486 Modified MEK scrubs 16 dry mils, number of scrubs until 50% substrate exposed	> 5000
Adhesion to Asphalt	ASTM D-4541	Substrate Failure
Friction Wet	ASTM E-303 British Pendulum Tester	> 55
Environmental Sensitivity	EPA 24 ASTM D3960-05 Volatile Organic Compounds	VOC < 150

Table 1: Required Performance Properties of Asphalt Pavement Coating.

3. Equipment.

a. The following specialized equipment shall be used in the execution of the Work.

1) Metal wire rope templates are used to create the desired imprint pattern. Only use templates that have been supplied by a manufacturer who has the proven expertise in manufacturing these templates for this type of application.

b. Asphalt pavement reheat equipment specifically designed for asphalt pavement texturing is to be used in the execution of this work. The primary asphalt pavement re-heat equipment must cycle the heat application and must allow the equipment operator to check the pavement surface temperature during the

heating process, These controls are necessary to enable the pavement temperature to be elevated gradually, giving the operator the ability to ensure that the pavement is not overheated or adversely affected. Heaters without these controls are strictly prohibited as the primary re-heats equipment.

c. Hand-held portable heating devices may be used only for areas where It is difficult to operate the re-heat machine. These may not be used as the primary pavement re-heating device.

d. Finishing tools that are designed to enable the applicator to complete the imprinting of the asphalt pavement in areas which may be inaccessible to the template such as curbs and manhole covers are permitted.

e. Vibratory Plate Compactors shall be used for pressing the templates into the heated asphalt pavement to create the specified pattern.

f. Specialized coating spray equipment must be used in the application of the coating and must be capable of applying the coating to the asphalt pavement surface in a thin, controlled film which will optimize the drying and curing time of the coating. More specifically, the spray equipment pump must be capable of providing a continuous recirculation of the coating in order to keep the solids within the coating in suspension.

E. Construction Details.

1. **General.** The Colored and Imprinted Asphalt System shall be supplied and installed by a Qualified Applicator in accordance with the plans and specifications or as directed by the Owner. Do not begin the Work until confirmation of the Applicator's qualifications is provided.

2. **Surface Preparation.** The asphalt pavement surface shall be dry and free from all foreign matter, including but not limited to dirt, dust, de-icing materials, and chemical residue.

3. **Layout.** Layout of the pattern for imprinting into the surface of the asphalt pavement shall be as per the drawings and specifications.

4. **Heating the Asphalt Pavement.** The Applicator shall use asphalt pavement reheat equipment as described above. The optimal pavement temperature for imprinting the template is dependent upon mix design, modifiers used in the mix, the age of the pavement and weather. The surface temperature of the pavement should not exceed 325°F as determined by an infra-red thermometer reading taken after the heat is applied to the asphalt pavement. In order to achieve the proper depth of imprint it is important to elevate the asphalt pavement temperature to a minimum depth of 1/2 inch (12.5mm) without burning the pavement surface. This can only be accomplished using asphalt pavement reheat equipment that is specifically designed for this Work.

5. **Surface Imprinting.** The pavement surface shall be dry and free from all foreign matter, including but not limited to dirt, dust, de-icing materials, and chemical residue. Once the asphalt pavement has reached imprinting temperature, the templates shall be placed in position and pressed into the surface using vibratory

plate compactors. The top of the template is to be flush with the surrounding asphalt pavement and can then be removed. Areas that have an imprint depth less than 3/8 inch shall be re-heated and re-stamped prior to applying the coatings. Hand tooling is a permitted method to achieve proper imprint depth in areas difficult to get at with the template.

6. **Application of Asphalt Pavement Coating Guidelines**
   a. The qualified applicator shall refer to the asphalt pavement coating supplier's recommendations for methods of application. Special care and attention must be paid to ensure asphalt pavement coatings are applied in environmental conditions that permit proper cure.
   b. The coating application shall proceed as soon as possible upon completion of the imprinting of the asphalt pavement. The pavement surface shall be completely dry and thoroughly cleaned prior to application of the asphalt pavement coating(s).
   c. Depending upon the condition and age of the pre-existing pavement, primer may be required. Refer to the asphalt pavement coating supplier's specifications.
   d. The qualified applicator shall use spray equipment specifically designed for the application of the coating(s) as outlined in Section 2.3 above.
   e. Refer to the asphalt pavement coating supplier's recommendations for coating coverage rate, number of recommended passes and recommended film thickness.
7. **Opening to Traffic.** Minimally, the surface coating must be 100% dry before traffic is permitted. Refer to the asphalt pavement coating supplier's guide.

F. Method of Measurement.

1. The installation of the Colored and Imprinted Asphalt System will be measured by the number of square feet of hot mix asphalt satisfactorily imprinted, colored and sealed in accordance with the plans, this specification and as approved by the Engineer.

G. Basis of Payment.

1. The unit price bid per square foot shall include the cost of test panels, maintenance kit and the furnishing all labor, materials, equipment and tools necessary to complete the work. The asphalt pavement will be paid for under separate individual items. Areas where the Colored and Imprinted Asphalt System is deemed unacceptable by the Engineer will not be measured for payment. The contractor will be directed by the Engineer to re-apply the Colored and Imprinted Asphalt System to the satisfaction of the Engineer before payment is made. Milling and re-Installation of asphalt top course and reapplication of misapplied Colored and Imprinted Asphalt System will be done at the contractor's expense.

ITEM 765 - FURNISH & INSTALL CONCRETE PARKING BUMPER

A. Description.

1. Under this item, the contractor shall furnish and install precast cement concrete parking bumpers at locations shown on the plans, or as directed by the Engineer.

B. Materials.

1. Precast parking bumpers shall be manufactured for the intended purpose by a company or firm specializing in the manufacture of precast concrete parking bumpers. Provide precast concrete parking bumpers of half octagonal cross section, with dimensions approved by the Engineer. Unless indicated otherwise, provide bumpers of 6 foot length.
2. Bumpers shall be manufactured of 4000 p.s.i minimum reinforced concrete, to withstand constant use and rough service. Each bumper shall be reinforced with two No. 4 deformed steel reinforcing bars, minimum.
3. Each bumper to be installed on at-grade asphalt pavement shall be manufactured with two holes to accommodate the anchor rebar. Bumpers to be installed on concrete slabs shall be manufactured without holes.
4. Epoxy Adhesive: Adhesive for anchoring bumpers to pavement shall be an epoxy adhesive manufactured for the purpose, complying with ASTM C 881/C 881M, Type IV, Grade 3, Class B or C. Use Class B whenever the surface temperature is from 40 to 60 degrees F. Use Class C whenever the surface temperature is above 60 degrees F. Whenever the surface temperature is below 40 degrees F, go home and wait until such time that the surface temperature is above 40 degrees F.
5. Steel Bars for Installation: Epoxy-coated rebar, No. 5 size, conforming item 33X.
6. Submit shop drawings of bumpers, including plan layout and installation details, for approval.
7. Product data: Submit manufacturers' product data of precast bumpers and epoxy adhesive for approval

C. Construction Details.

1. No installation shall begin until shop drawings, catalog cuts, details or illustrated literature, and installation details are submitted and approved by the Engineer.
2. The pavement surface shall be prepared as per epoxy adhesive manufacturer's instructions prior to installation.
3. Precast concrete bumpers shall be anchored and secured in position on at-grade asphalt pavements, as indicated, with an appropriate epoxy adhesive as specified above and two No. 5 epoxy-coated rebar (24" long each, recessed 1/4" below the top of the bumper after installation).
4. Precast concrete bumpers shall be secured in position on concrete pavements, as indicated, with an appropriate epoxy adhesive as specified above.

D. Method of Measurement.

1. The quantity to be paid under this item will be the number of parking bumpers installed in accordance with this specification.

E. Basis of Payment.

1. The unit price bid shall include the cost of all labor, materials, and equipment necessary to complete the work.

ITEM 766 - RETAINING WALL SYSTEM

A. Description.

1. The work shall consist of furnishing and installing a low height retaining wall system, in accordance with all applicable Standard Sheets and Specifications, and in accordance with the Contract Documents and as ordered by the Engineer.
2. Retaining wall systems are externally stabilized fill structures. Externally stabilized fill structures are structures which utilize the weight of the wall system elements and the weight of the infill to resist lateral soil pressure.
3. The location(s), elevation(s) and aesthetics shall be as shown in the contract documents or as directed by the Engineer.
4. The work shall include any demolition, saw cutting, excavation, disposal, fill, sub-base material, compaction, drainage material, drain pipe, geotextile material and all labor and material necessary for the construction of the new wall system (including backfill, leveling pads, joint fillers, geotextiles, face units and coping units, and subsurface drainage system). Also included are landscaping (adjustments and grading of existing ground), patching and repairs to affected asphalt or concrete as necessary, topsoil, establishing turf on disturbed areas, finish work, and any required adjustments to utilities. All material and labor required to perform these tasks is included.
5. The material and aesthetic treatment (color, texture and pattern) will be as described in the contract documents, using special notes and details, or as directed by the Engineer, as needed.
6. The contractor shall submit a plan including the sample materials, aesthetic treatments and proposed construction methods. Written approval of the plan must be received from the Engineer in Charge prior to commencement of the work.

B. Materials.

1. Ensure that the proper materials are supplied for the chosen system design.
2. The material shall comply with the latest edition of the New York State Department of Transportation, Standard Specifications, and the latest update to the effective at the date of letting, including the associated Material and Manufacturing requirements of Section 700.
3. The material shall comply with, but not be limited to, the requirements of the following sections of the New York State Department of Transportation Standard Specifications: 202-2, 203-2, 204-2, 206-2, 304-2, 554-2, 605-2, 608-2 and 610-2.

C. Construction Details.

1. The work shall be in conformance with the NYSDOT Standard Sheets. The work performed shall comply with, but is not limited to, the following Specification Sections: 202-3, 203-3, 204-3, 206-3, 304-3, 554-3, 605-3, 608-3, and 610-3

2. The contractor shall be in compliance with New York State Code, Rule 753. The contractor shall coordinate with utility companies and any appropriate governmental agency when utilities and/or access to these facilities are affected by the contractor's work. This may include, but is not limited by, utility poles, pull boxes, shut off boxes, manhole access covers, and underground equipment. Any existing facilities not indicated to be removed that are damaged by the contractor's operations, shall be repaired by the contractor to the satisfaction of the Engineer at no additional cost.

   a. During construction, remove and replace any face units damaged beyond repair with approved face units at no additional cost to Nassau County.

   b. Movement of construction equipment and all other vehicles and loads over and adjacent to the low height retaining wall system shall be done at the Contractor's risk. Control all operations and procedures to prevent misalignment of the low height retaining wall system. Any damage to face units from any cause shall be repaired or replaced by the Contractor at no additional cost to Nassau County.

   c. Provide aesthetic treatment as specified in the contract documents. Any damage to the treatment shall be repaired to the satisfaction of the Engineer at no additional cost to Nassau County.

D. Method of Measurement.

1. The quantity to be paid shall be, measured by the square foot, (measured to the nearest square foot), of satisfactorily installed Retaining Wall System, in accordance with the Contract Documents or as ordered by the Engineer. The area of the wall is obtained from the product of the height of the wall (measured as the vertical projection distance from the top of the leveling pad to the top of the wall, (including cap blocks, when utilized) and the horizontal length of the wall (measured along the bottom of the wall at the top of the leveling pad). The computations will take into consideration variations in the height of the wall.

E. Basis of Payment.

1. The inclusive unit price bid per square foot shall include the cost of furnishing all labor, material, and equipment necessary to satisfactorily complete the work, to the acceptance of the Engineer, including all applicable items described in Sections 554-5 and 610-5. The unit price bid shall be inclusive of the aesthetic treatment, topsoil and turf establishment. Any required survey, shall be paid for separately under the price bid for survey operations.

ITEM 767 - FURNISH & INSTALL & MAINTAIN TURBIDITY CURTAIN

A. Description.

1. This work shall consist of furnishing, installing, repairing, maintaining, and removing turbidity curtains in accordance with the contract documents and as directed by the Engineer.

B. References.

1. New York State Department of Transportation, (NYSDOT) Standard Specifications dated September 2, 2010 and updated supplements.

C. Materials.

1. The turbidity curtain shall be a commercially available, preassembled system, including a geotextile, flotation system, bottom weight, and anchoring and securing mechanism. If assembled in panels, it shall include a secure mechanism for joining panels together. Geotextiles shall conform to the requirements specified in §737-01F. Turbidity Curtain. Hemmed pockets shall be sewn or heat bonded to contain flotation material, bottom weights, and for anchor lines. The flotation material shall maintain buoyancy if punctured or cut. The bottom weight shall be sufficient to hold the curtain in a vertical position. For sites not subject to tidal or heavy wave action, the curtain shall be capable of molding to conform to bottom contours so that suspended sediment is prevented from escaping underneath the curtain. Anchorage lines shall be provided of sufficient strength and number to support the curtain and maintain it in position under normally expected conditions. End anchors shall be provided, with intermediate anchor points (for stakes or anchors) such that unanchored spans do not exceed 100 feet, sufficient to maintain the turbidity curtain in place. Where the turbidity curtain is constructed in panels, anchor-line and shackle connections securing the panels together shall be sufficient for normally expected current, wind, or wave conditions.

D. Construction Details.

1. **Systems Requirements.**
   a. Perform all work in accordance with Section 209 except as modified herein.
   b. For sites not subject to tidal or heavy wave action the curtain height shall provide sufficient slack to allow the top of the curtain to rise to the maximum expected highwater level (including waves) while the bottom maintains continuous contact with the bottom of the water body. The bottom edge of the curtain shall have a weight system capable of holding the bottom of the curtain down and conforming to the bottom of the water body, so as to prohibit escape of turbid water under the curtain.
   c. For sites subject to tidal or heavy wave action, the curtain height shall provide sufficient slack to allow the top of the curtain to rise to the maximum expected highwater level (including waves) while the bottom remains 12 inches above the bottom. The weight system shall hold the lower edge of the curtain in place so

as to allow 12 inches of clearance above the bottom at mean low water, so that the curtain does not stir up sediment by repeatedly striking the bottom.

d. If constructed in panels, panels shall be connected in such a manner as to prevent suspended particles passing through joints. Load lines shall be connected so as to develop the full strength of the line across the joint.

e. Flotation material shall be arranged so as to be flexible and to provide continuous support.

f. The flotation and curtain top shall be such as to provide a minimum of 4 inches of freeboard along the entire length of the curtain, to prohibit escape of turbid water over the top.

2. **Installation.**

a. The turbidity curtain shall be installed as shown in the contract documents in accordance with the manufacturer's instructions. It shall be placed as close to the site of disturbance as possible without interfering with construction activity.

b. Turbidity curtain shall be installed and maintained in a manner that precludes entry of equipment, other than hand-held equipment or boats, to the water body outside the protected area.

c. The fully assembled turbidity curtain shall be prepared for installation by being furled and tied at intervals of 5 foot for the length of the curtain. It shall be placed and secured in the furled condition, then released to allow the bottom edge to sink.

d. At sites subject to tidal or heavy wave action, adjustment lines may be used to achieve the required height of the curtain.

e. At sites not subject to tidal or heavy wave action, excess curtain material shall lay on the bottom, away from construction activity.

f. Turbidity curtain shall be placed as nearly as possible parallel to current flow. It shall not be deployed across a flowing water course.

g. The ends of the installation shall be anchored securely well up the bank. Intermediate anchors of a type and number sufficient to hold the curtain in place under expected conditions shall be placed, and firmly fastened to the top of the curtain assembly. Maximum spacing between anchorage points shall not exceed 100 feet.

h. In situations with flow velocities that exceed 5 feet/sec use a redirection barrier. The redirection barrier shall be installed prior to installation of the turbidity curtain wherever possible, and care should be exercised in order to minimize disturbance of the bottom of the water body during installation of the redirection barrier.

3. **Maintenance.**

a. The turbidity curtain shall be inspected daily, with additional monitoring of performance during storms or significant flow events.

b. Any visible plume of cloudy water passing beyond the curtain from the enclosed construction area shall constitute inadequate performance of the turbidity curtain. The Contractor shall immediately modify, adjust, or repair any portion of the turbidity curtain to correct inadequate performance.

c. The turbidity curtain shall remain in place until the protected construction activities have ceased and the turbidity of the water enclosed is reduced to acceptable levels. The curtain shall be removed within 72 hours of this condition being met.

4. **Removal.**

a. The turbidity curtain shall be removed in such a way as to minimize release of sediment.

b. Sediment behind the curtain shall be removed before removal of the curtain, if directed by the Engineer. If so, any resulting turbidity shall be allowed to settle before removal proceeds.

E. Method of Measurement.

1. Payment for this work will be made per linear foot for work satisfactorily completed. Progress payments will be made in proportion to the amount of work done as determined by the Engineer.

F. Basis of Payment.

1. The unit price bid per linear foot shall include the cost of furnishing all labor, materials, and equipment necessary to satisfactorily complete the work, including redirection barrier and the cost of removal associated with the removal of accumulated sediment. Payment will not be made for work which is attributed to the Contractor's negligence, carelessness or failure to install temporary or permanent controls in accordance with the contract documents.

ITEM 768 - FURNISH & INSTALL ARMORLESS BRIDGE JOINT SYSTEM

A. Description.

1. The system shall consist of components shown on a NYSDOT Approved Materials Detail Sheet for a Manufacturer and System whose name appears on the NYSDOT Materials Bureau Approved List. The required method of installation will be shown on the NYSDOT Approved Materials Detail Sheet.
2. **Terminology.** Materials Detail Sheet (MDS). A sheet approved by the NYSDOT DCES and containing all material requirements and installation information for Armorless Bridge Joints which are included on the NYSDOT Materials Bureau Approved List

B. Materials.

1. The material requirements shall be as shown on the NYSDOT Approved Materials Detail Sheet corresponding to a Manufacturer and System listed on the NYSDOT Materials Bureau Approved List.
2. Shop drawings will be required for any joint system supplied as part of this work. All shop drawings shall note the name and address of the joint system (or segment) fabricator as well as the location where the joint system (or segments) are to be fabricated.

C. Construction Details.

1. **Manufacturer's Representative.** The joint system shall be installed in strict accordance with the manufacturer's instructions and the NYSDOT Approved Materials Detail Sheet. In the event of a conflict, the terms of the NYSDOT Approved Materials Detail Sheet shall rule. A representative of the bridge joint system manufacturer shall be present prior to placement to inspect the prepared surfaces and remain at the job during all phases of the installation. The representative shall be fully conversant in all respects with the correct installation methods. The representative shall be responsible to advise both the Engineer and the Contractor on properly installing the joint system. The representative may be excused from the project site at the discretion of the NCDPW project manager.
2. **Preparation.** All surfaces shall be prepared as per the NYSDOT Approved MDS. At a minimum, the preformed recess which is to receive the joint system shall be air blown using air free of water and oil or vacuum-cleaned so that all loose or foreign matter is removed prior to installation of the system. The substrate shall be dry for a minimum of 24 hours prior to installation for the joint system.
3. **Storage Inspection and Handling.** The joint system shall be stored, inspected and handled in accordance with the NYSDOT Approved Materials Detail Sheet.
4. **Installation Inspection.** All installation work shall be subject to the Engineer's inspection.
5. **Watertight Integrity Test.** At least five work days after the joint system has been fully installed the Contractor shall test the entire (full length) joint system for

watertight integrity. The entire joint system shall be covered with water, either ponded or flowing, for a minimum duration of 15 minutes.

6. The concrete surfaces under the joint shall be inspected during this 15 minute period, and also for a minimum of 45 minutes after the supply of water has stopped, for any evidence of dripping water or moisture. Water tightness shall be interpreted to be no free dripping water on any surface on the underside of the joint. Patches of moisture shall not be cause for non-acceptance.
7. Should the joint system exhibit evidence of water leakage at any place whatsoever, the Contractor shall locate the place(s) of leakage and take all measures necessary to seal the leak. A subsequent water integrity test shall be performed subject to the same conditions and consequences as the original test. No additional payment will be made for corrective actions.

D. Method of Measurement.

1. Measurement will be made as the number of feet of joint system completely installed, measured horizontally and vertically along the centerline of joint system between the outer limits as indicated on the contract plans.
2. The words "completely installed" shall be interpreted to mean the joint system in place with the following operations completed where applicable:
   a. All sealant in its proper position.
   b. All nuts tightened or retightened as required.
   c. Concrete placed and finished.
   d. Elastomeric concrete placed and finished.
   e. Water-tight integrity tests

E. Basis of Payment.

1. The unit price bid per foot shall include all labor, materials and equipment necessary to complete the work.

ITEM 769A – Type "A" Catch Basin Insert- Filter Type (Combination Inlet)

ITEM 769B – Type "B" Catch Basin Insert- Filter Type (Curb Inlet Only)

A. Description.

1. Under each of these items the Contractor shall furnish and install cartridge type catch basin inserts to collect and retain sediment and debris prior to entering the storm water system.

B. Submittals.

1. The manufacturer shall develop and furnish a worksheet to be used by the installer(s) to measure and certify the actual condition of the catch basin which will receive the catch basin insert.

C. Delivery, Storage & Handling.

1. All materials shall be protected during loading, transporting, and unloading, in accordance with the manufacturer's recommendations.

D. Materials.

1. The catch basin insert to be used in Type A and B catch basins shall comply with the following specifications:
   a. Physical Properties:
      1) Material:
         a) Adjustable Flange and Deflector
         b) Splash Guard: Neoprene Rubber (Trim to Fit)
         c) Plastic or polypropylene basket
         d) Protected by-pass to retain re-suspended material
         e) Support Hardware
      2) Performance Characteristics & Removal Rates:

a) Debris Capacity:	4.0 Cu-Ft
b) Filtered Flow Rate:	0.5 cfs
c) Bypass Flow Rate:	4.0 cfs
d) Sediment Removal:	Remove ≥ 50% of sub 100 micron
e) Hydrocarbons, Oil & Grease:	Remove ≥ 80%
f) Phosphorous:	Remove ≥ 50%
g) Nitrogen Compounds:	Remove ≥ 40%
h) Bacteria:	Remove ≥ 70%

      3) Under this item the catch basin insert manufacturer is required to submit test data to the County (with supporting documentation) specifically indicating that the proposed

devices have been proven to achieve the performance characteristics and removal rates specified herein. No materials may be ordered until the County has accepted said documentation, in writing.

b. Serviceability:

1) Catch Basin Insert Maintenance
   a) The catch basin inserts shall be serviceable from the street level only; maintenance shall not require "confined space" entry into the catch basin.
   b) The consumables (filters) shall be designed to enable replacement from the street level only; maintenance shall not require "confined space" entry into the catch basin.

E. Method of Measurement.

1. The quantity to be paid for under these two items shall be the number of catch basin insert assemblies that are furnished and installed.

F. Basis of Payment.

1. The unit price bid for each item(s) shall include the cost of furnishing and installing one (1) complete catch basin insert assembly which shall consist of all materials including one set of filters and the metal framework to be installed inside the catch basin.

G. Warranty.

1. The equipment, materials, and products furnished under this item shall be guaranteed against defective design, materials, workmanship and operation for a period of one (1) year from the date the equipment is placed into problem free operation. The date of problem free operation will be determined by the Owner's representative. Upon receipt of notice from the Owner of failure of any part of the equipment, material, or product during the guarantee period, the affected item shall be repaired or replaced (if necessary), at the sole cost and expense of the Contractor, and at no additional cost to the County.

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	FIRST RELEASE	8/2/06	

NOTES:

1. WEIGHT (EMPTY): 50 LB MAX, NO CARTRIDGES

2. MATERIAL:
   A) ADJUSTABLE FLANGE AND DEFLECTOR: ALUMINUM ALLOY 6063-T6
   B) BASIN (PLASTIC): POLYPROPYLENE POLYETHYLENE COPOLYMER
   C) CORNER FILL: ALUMINUM ALLOY: 5052-H32
   D) SUPPORT HARDWARE: CRES 300 SERIES
   E) SPLASH GUARD: NEOPRENE RUBBER (TRIM IF NECESSARY)

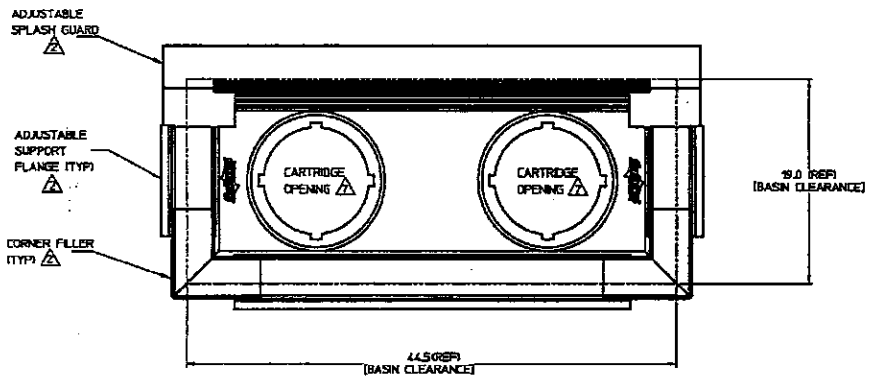
3. PERFORMANCE CHARACTERISTICS (TYP):
   A) DEBRIS CAPACITY: 5.2 CU-FT
   B) FILTERED FLOW RATE (CLEAN HIGH FLOW CARTRIDGE): 520 GPM (1.16 CFS)
   C) PRIMARY BYPASS FLOW RATE: 1917 GPM (4.3 CFS)
   D) SECONDARY BYPASS FLOW RATE: 164 GPM (0.37 CFS)
   E) TOTAL BYPASS FLOW RATE: 2082 GPM (4.6 CFS)

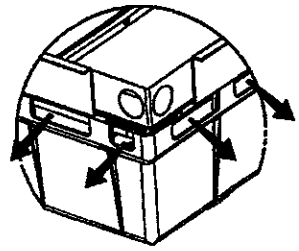
4. CLEAR OPENING RANGE (0.5 INCH INCREMENTS):
   A) MINIMUM SIZE: 19.0 X 45.0
   B) MAXIMUM SIZE: 24.0 X 50.0

5. RECOMMENDED MINIMUM VAULT DEPTH 2-IN BELOW CARTRIDGE

6. TYPICAL INSTALLATION: REMOVE STORM GRATE, MEASURE CATCH BASIN CLEAR OPENING AND ADJUST FLANGES TO REST ON GRATE SUPPORT LEDGE. INSTALL STORMBASIN INSERT WITH RUBBER SPLASH GUARD EXTENDING INTO CURB-BOX AND VERIFY THE ADJUSTABLE FLANGES ARE SECURELY RESTING ON THE GRATE SUPPORT LEDGES. INSTALL THE CORNER FILL PIECES. REINSTALL THE STORM GRATE DIRECTLY ON STORMBASIN SUPPORT FLANGES.

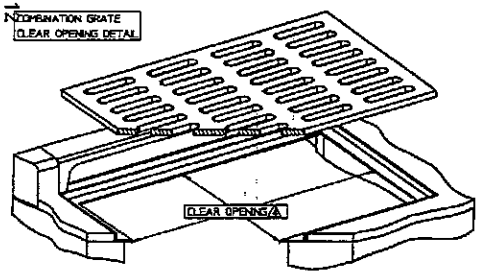
7. USE WITH FABCO REPLACEABLE MEDIA CARTRIDGES ONLY.

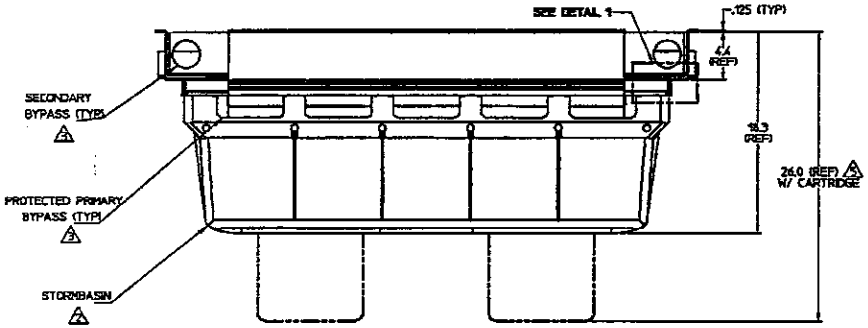




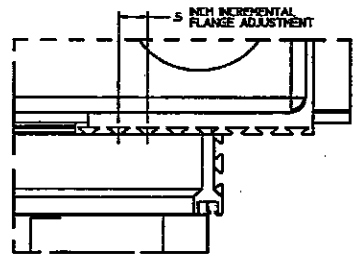
PROTECTED BYPASS, TYPICAL
NOT TO SCALE

COMBINATION GRATE CLEAR OPENING DETAIL





DOVETAIL ADJUSTMENT FEATURE (TYPICAL EACH FLANGE)



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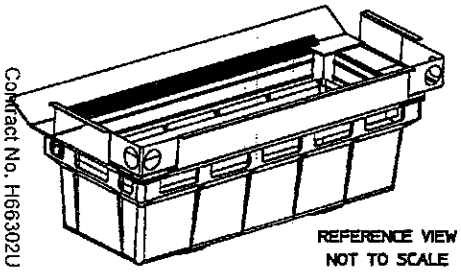

REFERENCE VIEW
NOT TO SCALE

NO	QTY	PART NUMBER	DESCRIPTION	REMARKS
			BILL OF MATERIALS	

APPROVALS		DATE
DRAWN	J. PETERS	9/7/07
CHECK		
QA		
MATERIAL	SEE NOTES	
FINISH		
FABCO P/N	9730-1E_ASSY3	

DO NOT SCALE THIS DRAWING

fabco

FABCO INDUSTRIES INC.
66 CENTRAL AVENUE
FARMINGDALE, NY 11735
WWW.FABCO-INDUSTRIES.COM

TITLE: NASSAU COUNTY, NY TYPE-1A STORMBASIN

SIZE	CAGE CODE	DWG NO	REV
D	1P8A6	10130-1-000	A

SCALE: 3/8 WT | SHEET 1 OF 1

Contract No. H663020

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	FIRST RELEASE	8/21/14	

NOTES:

1. WEIGHT (EMPTY): 40 LB MAX.

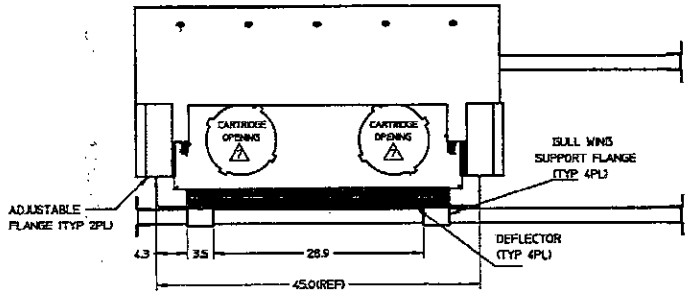
2. MATERIAL:
   A) STORMBASIN SUPPORT FLANGE AND DEFLECTOR: ALUMINUM ALLOY 6063-T6
   B) CORNER DEFLECTOR (PLASTIC): POLYPROPYLENE POLYETHYLENE COPOLYMER
   C) BASIN (PLASTIC): POLYPROPYLENE POLYETHYLENE COPOLYMER
   D) RUBBER SUPPORT PLATE: ALUMINUM ALLOY 5052-H32
   E) SUPPORT HARDWARE: CRES 300 SERIES OR EQUAL
   F) OIL BOOM: 3" DIAMETER, POLYPROPYLENE
   G) GULL WING SUPPORT FLANGE: 6063-T6, CLEAR ANODIZE

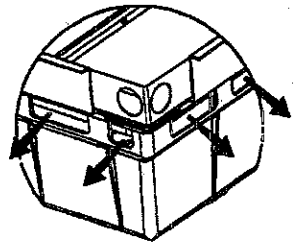
3. PERFORMANCE CHARACTERISTICS (TYP):
   A) DEBRIS CAPACITY: 4.0 CU-FT
   B) FILTERED FLOW RATE (CLEAN HIGH FLOW CARTRIDGE): 520 GPM (1.16 CFS)
   C) PROTECTED BYPASS FLOW RATE: 1207 GPM (2.7 CFS)
   D) TOTAL BYPASS FLOW RATE: UNRESTRICTED

4. PROTECTED BYPASS PREVENTS RE-SUSPENSION OF FLOATABLES

5. USE WITH FABCO REPLACIBLE FILTER CARTRIDGES ONLY. FABCO P/N: 9718-7-000.

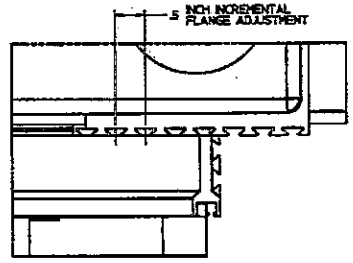
6. VISIT FABCO INDUSTRIES WEBSITE FOR COMPLETE INSTALLATION INSTRUCTIONS. WWW.FABCO-INDUSTRIES.COM



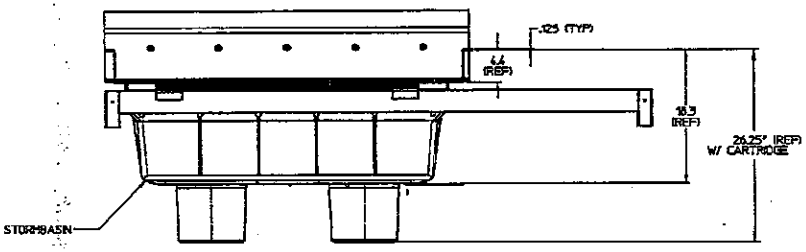


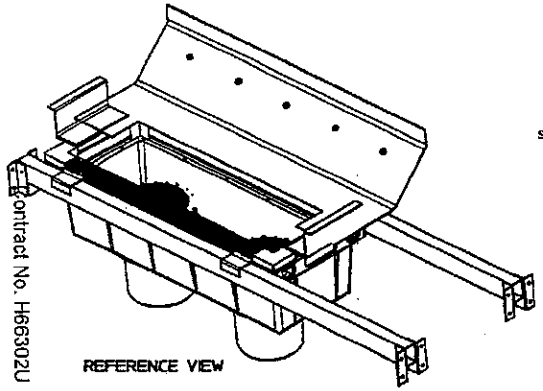
PROTECTED BYPASS, TYPICAL

DOVETAIL ADJUSTMENT FEATURE (TYPICAL EACH FLANGE)



DETAIL 1





REFERENCE VIEW

604 of 612

Contract No. H66302U

NO	QTY	PART NUMBER	DESCRIPTION	REMARKS

BILL OF MATERIALS

MATERIAL	SEE B.O.M
FINISH	
MODEL LINE	10130-2

DRAWN	HS	8/21/14
CHKD		
ENGR	JP	8/29/14
APPD		

FABCO INDUSTRIES, INC.
44 CENTRAL AVENUE
FARMINGDALE, NY 11735
WWW.FABCO-INDUSTRIES.COM

DO NOT SCALE THIS DRAWING

TITLE: NASSAU COUNTY, NY
TYPE-1B STORMBASIN

SIZE	CAGE CODE	DWG NO	REV
D	1PBA4	10130-2-000	A

SCALE 1/4 WT SHEET 1 OF 1

ITEM 770A - Type "A" Catch Basin Insert- Sediment Control Type (Combination Inlet)

ITEM 770B - Type "B" Catch Basin Insert- Sediment Control Type (Curb Inlet Only)

A. Description.

1. Under each of these items the Contractor shall furnish and install geotextile technology catch basin inserts to collect and retain sediment and debris prior to entering the storm water system.

B. Submittals.

1. The manufacturer shall develop and furnish a worksheet to be used by the installer(s) to measure and certify the actual condition of the catch basin which will receive the catch basin insert

C. Delivery, Storage & Handling.

1. All materials shall be protected during loading, transporting, and unloading, in accordance with the manufacturer's recommendations.

D. Materials.

The catch basin insert to be used in both the Type A and B installations shall comply with the following specifications.

1. Physical Properties.
   a. Material:
      1) Adjustable Flange and Deflector
         a) Splash Guard: Neoprene Rubber to redirect water from curb opening to the insert
         b) Woven Polypropylene Geotextile bag, replaceable oil boom
         c) Protected by-pass to retain re-suspended material
         d) Lifting Tabs
         e) Mounting kit and support hardware
      2) Performance Characteristics:
         a) Debris Capacity: 6.0 Cu-Ft
         b) Filtered Flow Rate: 5.0 cfs
         c) Bypass Flow Rate: 3.4 cfs
      3) Oil Absorbing Boom:
         a) Absorbent Material: 100% polypropylene, non-biodegradable
         b) Hydrophobic Media
         c) Absorption Capacity: 3.0 gal (max)
         d) Dimensions: 3" diameter x 100" long

2. Serviceability.
   a. Catch Basin Insert Maintenance
      1) The catch basin inserts shall be serviceable from the street level only; maintenance shall not require "confined space" entry into the catch basin.
      2) The consumables (filters) shall be designed to enable replacement from the street level only; maintenance shall not require "confined space" entry into the catch basin.

E. Method of Measurement.

1. The quantity to be paid for under these two items shall be the number of catch basin insert assemblies that are furnished and installed.

F. Basis of Payment.

1. The unit price bid for each item(s) shall include the cost of furnishing and installing one (1) complete catch basin insert assembly which shall consist of all materials including one set of filters and the metal framework to be installed inside the catch basin.

G. Warranty.

1. The equipment, materials, and products furnished under this item shall be guaranteed against defective design, materials, workmanship and operation for a period of one (1) year from the date the equipment is placed into problem free operation. The date of problem free operation will be determined by the Owner's representative. Upon receipt of notice from the Owner of failure of any part of the equipment, material, or product during the guarantee period, the affected item shall be repaired or replaced (if necessary), at the sole cost and expense of the Contractor, and at no additional cost to the County.

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	FIRST RELEASE	6/21/14	

NOTES:

1. WEIGHT (EMPTY): 40 LB MAX

2. MATERIAL:
   - A) ADJUSTABLE FLANGE AND DEFLECTOR: ALUMINUM ALLOY 6063-T6
   - B) SPLASH GUARD: NEOPRENE RUBBER (TRIM TO FIT)
   - C) STORMSACK: GEOTEX 117F, REINFORCEMENT RIBBON
   - D) MESH LINER: HDPE, DIAMOND PATTERN
   - E) LIFTING TABS: ALUMINUM ALLOY: 5052-H32
   - F) CORNER FILLER: ALUMINUM ALLOY: 5052-H32
   - G) SUPPORT HARDWARE: CRES 300 SERIES
   - H) OIL BOOM: POLYPROPYLENE, 3" DIAMETER

3. PERFORMANCE CHARACTERISTICS (TYP):
   - A) DEBRIS CAPACITY: 8.5 CU-FT
   - B) FILTERED FLOW RATE (INITIAL): 3504 GPM (7.8 CFS)
   - C) PROTECTED PRIMARY BYPASS FLOW RATE: 1884 GPM (4.2 CFS)
   - DISECONDARY BYPASS FLOW RATE: 164 GPM (0.37 CFS)
   - E) TOTAL BYPASS FLOW RATE: 2048 GPM (4.6 CFS)
   - F) OIL BOOM ABSORPTION CAPACITY: 376 OZ (3 GAL)

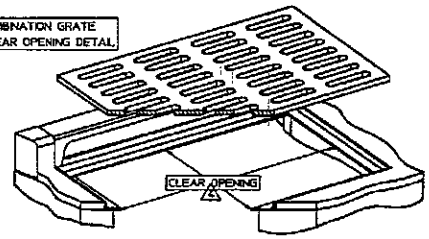
4. CLEAR OPENING RANGE (0.5 INCH INCREMENTS):
   - A) MINIMUM SIZE: 19 X 45
   - B) MAXIMUM SIZE: 24 X 50
   - C) MINIMUM RECOMMENDED VAULT DEPTH: 2-IN BELOW STORMSACK

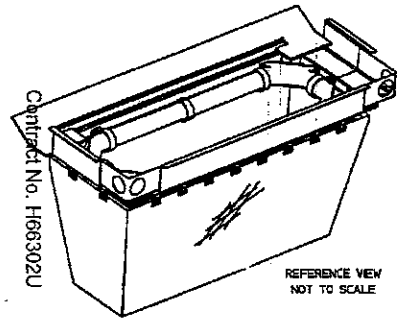
5. PROTECTED BYPASS PREVENT RE-SUSPENSION OF FLOATABLES

6. TYPICAL INSTALLATION: REMOVE STORM GRATE, MEASURE CATCH BASIN CLEAR OPENING AND ADJUST FLANGES TO REST ON GRATE SUPPORT LEDGE, TRIM SPLASH GUARD AS NEEDED, INSTALL CORNER FILL PIECES. REINSTALL STORM GRATE DIRECTLY ON STORMSACK SUPPORT FLANGES.

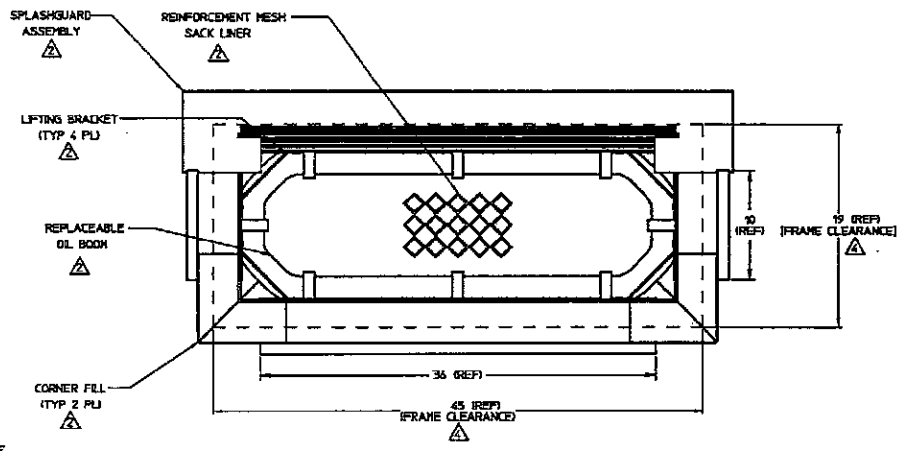
USE ONLY FABCO REPLACEABLE STORMSACKS, FABCO PART NO: 9748-1-200

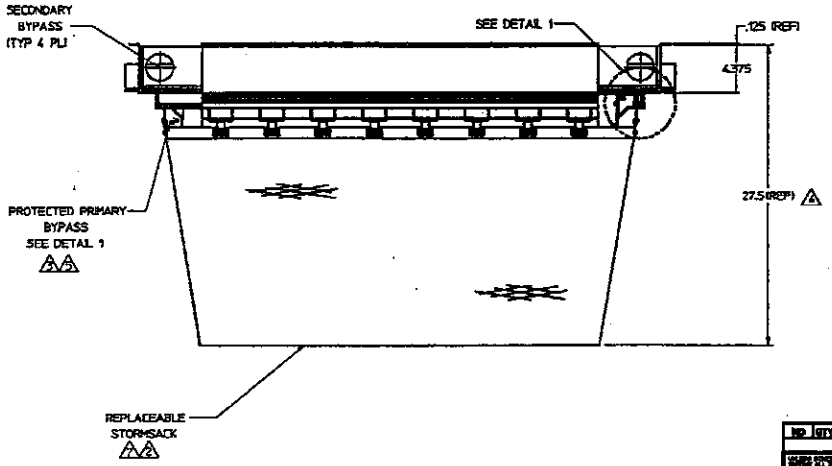
COMBINATION GRATE CLEAR OPENING DETAIL



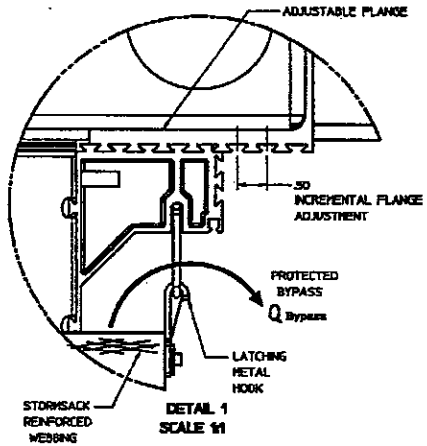


REFERENCE VIEW
NOT TO SCALE

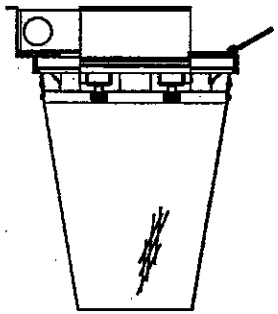




DOVETAIL ADJUSTMENT FEATURE (TYPICAL EACH FLANGE)



DETAIL 1
SCALE 1/1



NO	QTY	PART NUMBER	DESCRIPTION	REMARKS

BILL OF MATERIALS

APPROVALS		DATE
DRAWN	HS	6/21/14
CHECKED		
ENGR	JP	6/23/14
APPD		

DO NOT SCALE THIS DRAWING
MATERIAL: SEE NOTES
FINISH: N/A
9748-1E_ASSY4

FABCO INDUSTRIES, INC.
66 CENTRAL AVE.
FARMINGDALE, NY 11735
WWW.FABCO-INDUSTRIES.COM

fabco

TITLE: NASSAU COUNTY, NY TYPE-2A STORMSACK

SIZE	CAGE CODE	DWG NO	REV
D	1PBA6	10130-3-000	A

SCALE: 1/4 WT | SHEET 1 OF 1

607 of 612

Contract No. H66302U

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	FIRST RELEASE	8/29/14	

NOTES:

1. WEIGHT (EMPTY): 50 LB MAX.

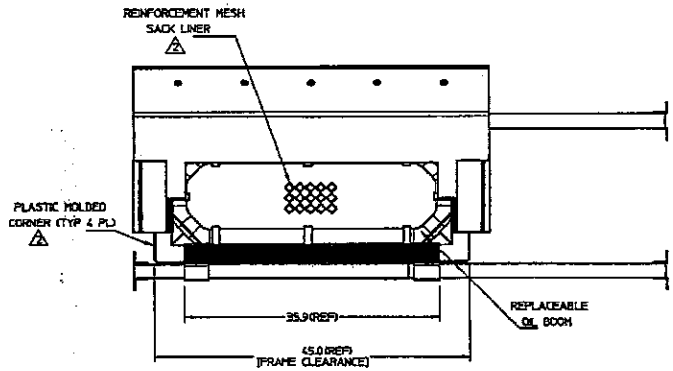
2. MATERIAL:
   A) STORMSACK SUPPORT FLANGE AND DEFLECTOR: ALUMINUM ALLOY 6063-T6
   B) CORNER DEFLECTOR (PLASTIC): POLYPROPYLENE POLYETHYLENE COPOLYMER
   C) GEOTEXTILE SACK: WOVEN POLYPROPYLENE, 20 US STD SIEVE SIZE
   D) SUPPORT PLATE: ALUMINUM ALLOY 5052-H32
   E) SUPPORT HARDWARE: CRES 300 SERIES OR EQUAL
   F) OIL BOOM: 3" DIAMETER, POLYPROPYLENE
   G) MESH LINER: HDPE, DIAMOND PATTERN

3. PERFORMANCE CHARACTERISTICS (TYP.-
   A) DEBRIS CAPACITY: 7.1 CU-FT
   B) FILTERED FLOW RATE (INITIAL): 3440 GPM (7.7 CFS)
   C) PROTECTED BYPASS FLOW RATE: 1412 GPM (3.1 CFS)
   D) TOTAL BYPASS FLOW RATE: 1412 GPM (3.1 CFS)

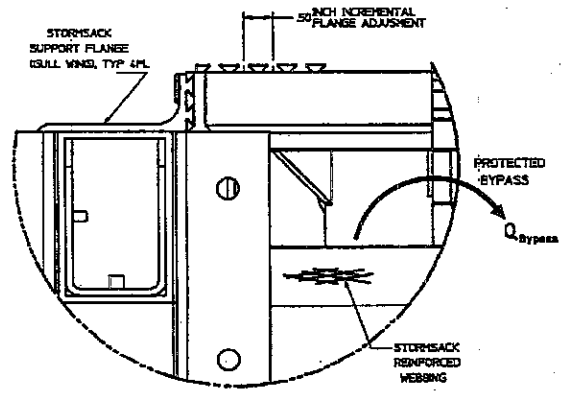
4. COVERED BYPASS PREVENTS RE-SUSPENSION OF FLOATABLES

5. USE WITH FABCO REPLACIBLE STORMSACKS ONLY. FABCO P/N: 9748-1-200. CONTACT FABCO REPRESENTATIVE FOR ALTERNATE STORMSACK SIZES.

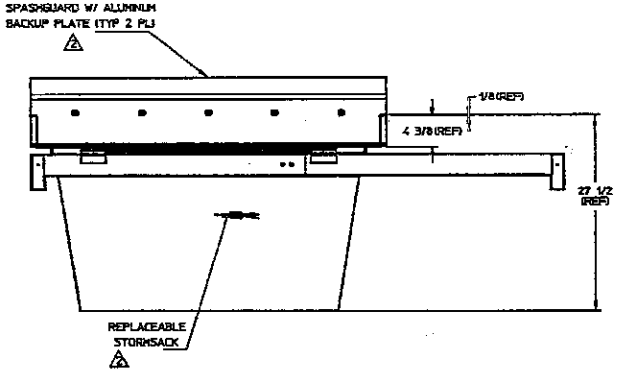
6. VISIT FABCO INDUSTRIES WEBSITE FOR COMPLETE INSTALLATION INSTRUCTIONS. WWW.FABCO-INDUSTRIES.COM

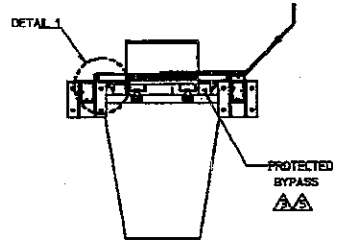


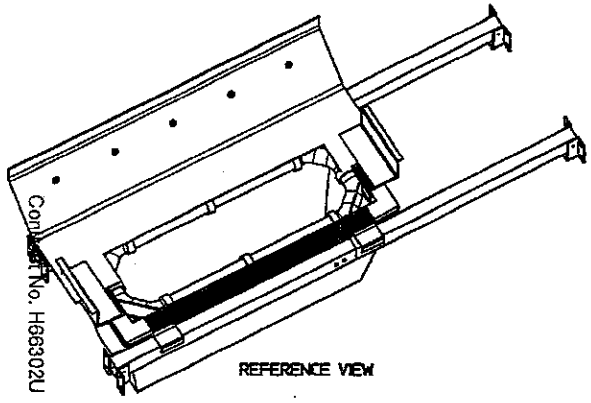
DOVETAIL ADJUSTMENT FEATURE (TYPICAL EACH FLANGE)



DETAIL 1







REFERENCE VIEW

608 of 612

Contract No. H663302U

NO	QTY	PART NUMBER	DESCRIPTION	REMARKS
			SEE BOM MATERIALS	

	APPROVALS	DATE
	DSGN HS	8/29/14
	DWN	
	CHKD JP	8/29/14
	APVD	

DO NOT SCALE THIS DRAWING

MATERIAL: SEE NOTES

MODEL LINE: 10150-4

FABCO INDUSTRIES INC.
44 CENTRAL AVENUE
FARMINGDALE, NY 11735
WWW.FABCO-INDUSTRIES.COM

fabco

TITLE: NASSAU COUNTY, NY
TYPE-2S STORMSACK

SIZE	CAGE CODE	DWG NO	REV
D	3FBA4	10150-4-000	A

SCALE: 1/4 SHT | SHEET 1 OF 1

ITEM 771A – Type "A" Catch Basin Insert- Sediment Control Type with pathogen filtration (Combination Inlet)

ITEM 771B – Type "B" Catch Basin Insert- Sediment Control Type with pathogen filtration (Curb Inlet Only)

A. Description.

1. Under each of these items the Contractor shall furnish geotextile technology catch basin inserts to collect and retain sediment and debris prior to entering the storm water system.

B. Submittals.

1. The manufacturer shall develop and furnish a worksheet to be used by the installer(s) to measure and certify the actual condition of the catch basin which will receive the catch basin insert.

C. Delivery, Storage & Handling.

1. All materials shall be protected during loading, transporting, and unloading, in accordance with the manufacturer's recommendations.

D. Materials.

1. The catch basin insert to be used in both the Type A and B installations shall comply with the following specifications:
   a. Physical Properties:
      1) Material:
         a) Adjustable Flange, Deflector and Treated Media
         b) Treated Polyether Open-Cell Foam for Bacteria Reduction
         c) Splash Guard: Neoprene Rubber to redirect water from curb opening to the insert
         d) Inner woven polypropylene geotextile pre-filter bag, with outer polypropylene pocket to house treated foam.
         e) Replaceable oil boom
         f) Protected by-pass to retain re-suspended material
         g) Lifting Tabs
         h) Mounting kit and support hardware
      2) Performance Characteristics:
         a) Debris Capacity: 6.0 Cu-Ft
         b) Filtered Flow Rate: 5.0 cfs
         c) Bypass Flow Rate: 3.4 cfs

3) Oil Absorbing Boom:
   a) Absorbent Material: 100% polypropylene, non-biodegradable
   b) Hydrophobic Media
   c) Absorption Capacity: 3.0 gal (max)
   d) Dimensions: 3" diameter x 100" long

b. Serviceability:
   1) Catch Basin Insert Maintenance
      a) The catch basin inserts shall be serviceable from the street level only; maintenance shall not require "confined space" entry into the catch basin.
      b) The consumables (filters) shall be designed to enable replacement from the street level only; maintenance shall not require "confined space" entry into the catch basin.

E. Method of Measurement.

1. The quantity to be paid for under these two items shall be the number of catch basin insert assemblies that are furnished to the County or its Municipalities.

F. Basis of Payment.

1. The unit price bid for each item(s) shall include the cost of furnishing one (1) complete catch basin insert assembly which shall consist of all materials including one set of filters and the metal framework to be installed inside the catch basin.

G. Warranty.

1. The equipment, materials, and products furnished under this item shall be guaranteed against defective design, materials, workmanship and operation for a period of one (1) year from the date the equipment is placed into problem free operation. The date of problem free operation will be determined by the Owner's representative. Upon receipt of notice from the Owner of failure of any part of the equipment, material, or product during the guarantee period, the affected item shall be repaired or replaced (if necessary), at the sole cost and expense of the Contractor, and at no additional cost to the County.

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	FIRST RELEASE	8/22/16	

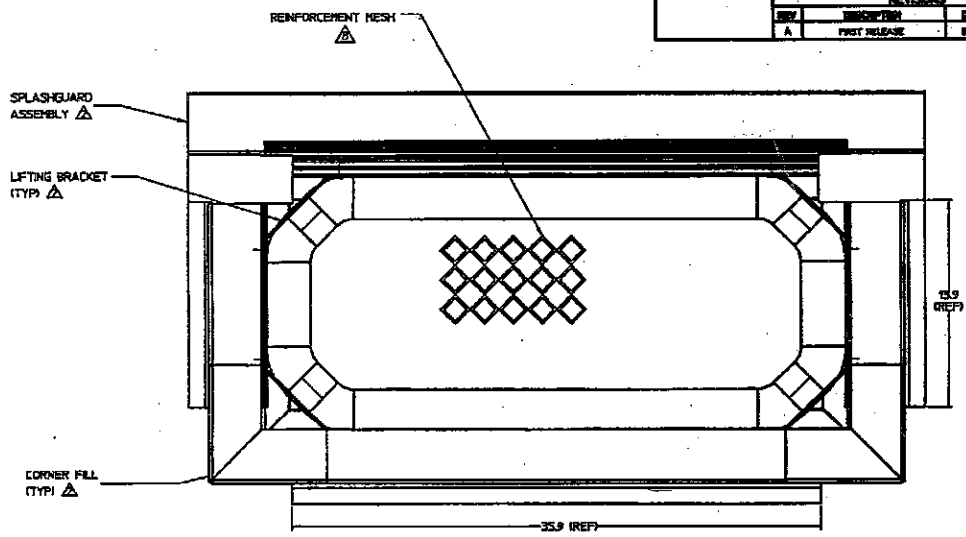
NOTES FOR BACTERIA PACK:

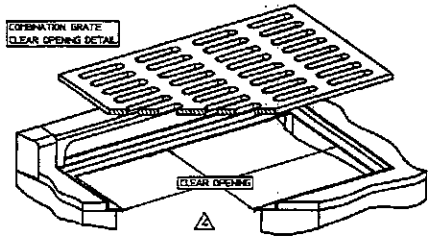
1. WEIGHT: 5-LBS

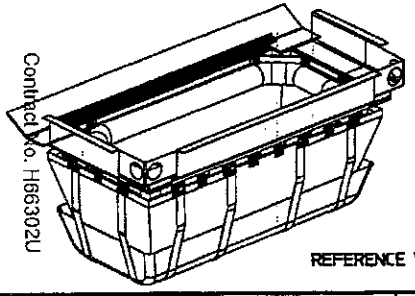
2. MATERIALS:
   A) PERMEABLE FABRIC: GEOTEXTILE, 20 US MESH
   B) NON-PERMEABLE FABRIC: POLYESTER LAMINATED VINYL
   C) SUPPORT STRAPS: WOVEN NYLON
   D) SPRING CLIPS: CRS W/ ALUMINUM RIVETS
   E) FABGUARD ANTI-MICROBIAL FOAM: POLYETHER BASE MATERIAL

3. PERFORMANCE CHARACTERISTICS:
   A) TREATMENT FLOW RATE: 2300 GPM (5.1 CFS)
   B) BYPASS FLOW RATE: 2000 GPM (4.5 CFS)

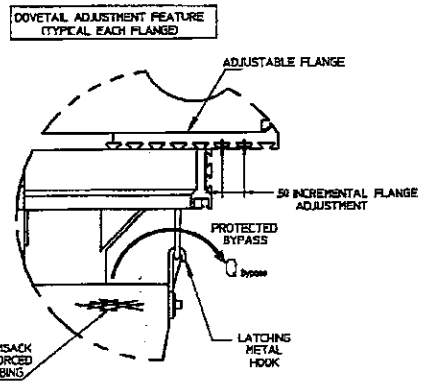
4. TYPICAL INSTALLATION:
   THE BAC-PACK UNIT HAS BEEN DESIGNED TO ADD BACTERIA TREATMENT CAPABILITY TO A TYPICAL FABCO STORMSACK PRODUCT. ESSENTIALLY CREATING A TWO-STAGE FILTERING SYSTEM. WITH THE BAC-PACK POSITIONED BENEATH THE STORMSACK, ATTACH EACH METAL SPRING CLIP TO THE STORMSACK FRAME HANGERS AS ILLUSTRATED.

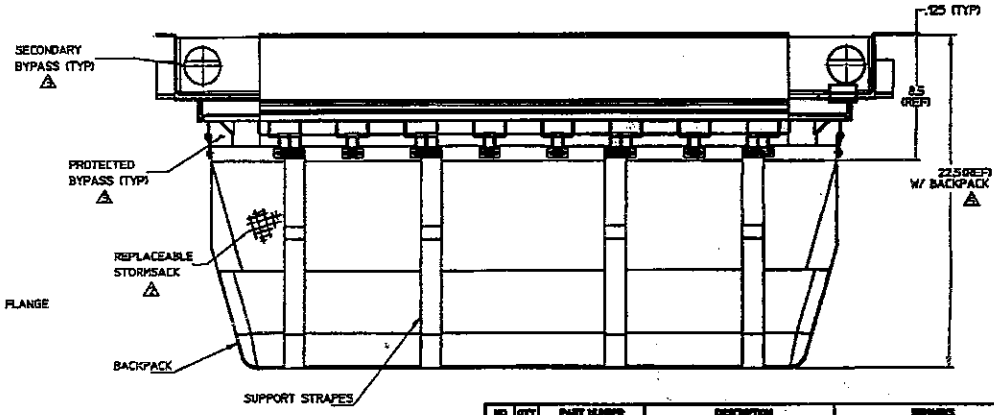






REFERENCE VIEW





NO	QTY	PART NUMBER	DESCRIPTION	REMARKS
			BILL OF MATERIALS	

MATERIAL	SEE NOTES	
FINISH		
NEXT ASSY	10130-5	
APPROVALS		DATE
DRAWN	RS	8/22/16
CHECK		
ENGR	JP	8/22/16
APPD		

FABCO INDUSTRIES, INC.
66 CENTRAL AVENUE
FARMINGDALE, NY 11735
WWW.FABCO-INDUSTRIES.COM

fabco

TITLE: NASSAU COUNTY, NY
TYPE-3A BACTERIA PACK

SIZE	FSCM NO.	DWG NO.	REV
D	17684	10130-5-000	A

SCALE: 1/4 WT: SHEET 1 OF 1

611 of 612

Contract No. H66302U

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IN SAID DOCUMENT.

REV	DESCRIPTION
A	FIRST RELEASE

NOTES FOR BACTERIA PACK:

1. WEIGHT: 5-LBS

2. MATERIALS:
   A) PERMEABLE FABRIC: GEOTEXTILE, 20 U.S. MESH
   B) NON-PERMEABLE FABRIC: POLYESTER LAMINATED VINYL
   C) SUPPORT STRAPS: WOVEN NYLON
   D) SPRING CLIPS: CRS W/ ALUMINUM RIVETS
   E) FABGUARD ANTI-MICROBIAL FOAM: POLYETHER BASE MATERIAL

3. PERFORMANCE CHARACTERISTICS:
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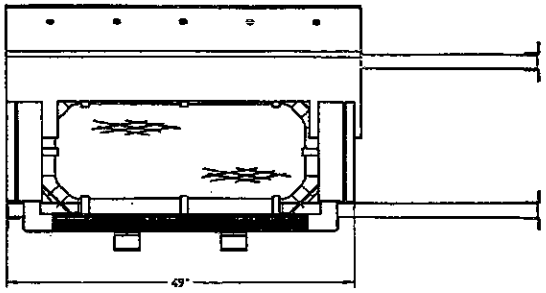

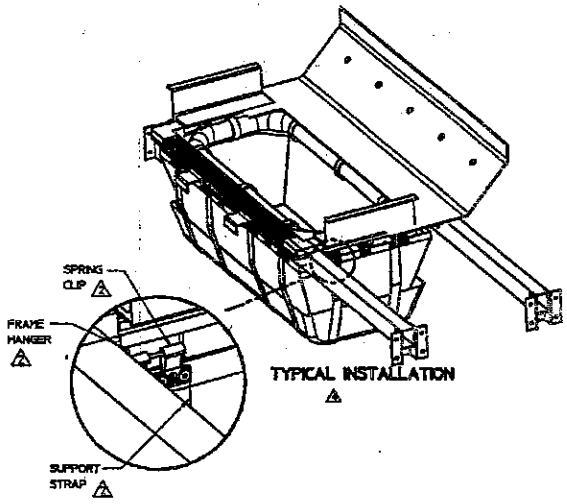

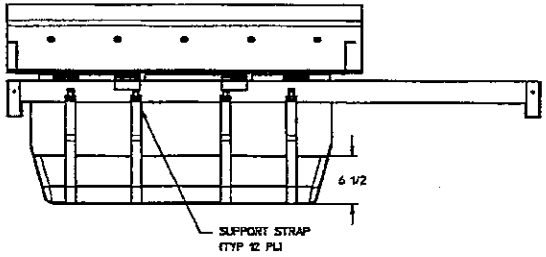

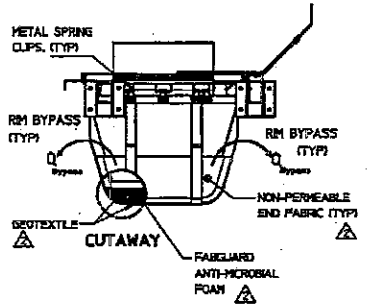

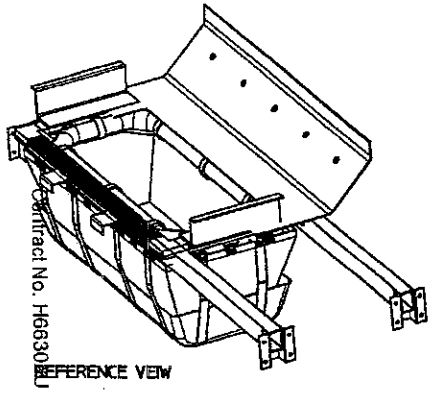

REFERENCE VIEW

612 of 612

Contract No. H663301

NO.	PART NUMBER	DESCRIPTION	REMARKS
		BILL OF MATERIALS	

APPROVALS	DATE
DRN TS	8/29/14
CHKD	
ENGR JP	8/29/14
APPD	

DO NOT SCALE THIS DRAWING

MATERIAL: SEE NOTES

MODEL LINE: 10'SD-6

FABCO INDUSTRIES, INC.
64 CENTRAL AVENUE
FARMINGDALE, NY 11735
WWW.FABCO-INDUSTRIES.COM

TITLE: NASSAU COUNTY, NY
TYPE-SD BACTERIA PACK

SIZE	CAGE CODE	DWG NO.	REV
D	1P8A4	10'SD-6-C00	A

SCALE: NTS WT: SHEET 1 OF 1