

**D261746**

**NO PLANS**

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# **PROPOSAL**

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**Proposal Description:**

Job Order Contract - Bridge.

**Letting of 7/14/2011 @ 10:30 A.M.**

Submitted in accordance with Standard Specifications officially adopted May 1, 2008 and the Highway Law.

**Book 2 of 2**



**IMPORTANT BIDDER INFORMATION**

**1. Familiarize Yourself with the Standard Specifications Book.** The Department currently uses Standard Specification books dated May 4, 2006 (Metric Units) and Standard Specifications dated May 1, 2008 (U.S. Customary Units). These may be purchased either in person or by mail for \$25.00 (plus \$8.00 postage if mailed) at the NYSDOT, Plan Sales Office, 50 Wolf Road, 1st Floor, Suite 1PS, Albany, NY 12232, Tel. (518) 457-2124, or accessed on-line at <https://www.nysdot.gov/main/business-center/engineering/specifications>.

**2. Upcoming Projects and Letting Results.** Construction contract plans and proposals will be sold only on compact disk (CD). These may be purchased in person or by mail at the NYS DOT, Plan Sales Office, 50 Wolf Road, 1<sup>st</sup> Floor, Suite 1PS, Albany, NY 12232 and at the Regional Office responsible for the project. The cost of the CD is \$10 (plus \$8 postage, if mailed). Checks should be made payable to the "New York State Department of Transportation". Include your Federal Identification Number on each check. The Department's Highway Letting Notices can be accessed at: <https://www.nysdot.gov/doing-business/opportunities/const-highway>. Highway Letting Results can be found at: <https://www.nysdot.gov/doing-business/opportunities/const-results>. Plans, proposals and letting results are also available on-line thru Bid Express at [www.bidx.com](http://www.bidx.com).

**3. Procurement Lobbying Law Requirements.** State Finance Law Sections 139-j and 139-k restrict communications between the Department and a bidder during the procurement process. During the period of time between project advertisement and award, a bidder is generally restricted from making contacts with anyone other than the staff listed below:

- 1) For technical questions or comments, the Regional Contact as shown on page 1 of the Proposal
- 2) Maria Tamarkin, Construction Letting & Award Unit, Phone: (518) 457-8403, Email: [mtamarkin@dot.state.ny.us](mailto:mtamarkin@dot.state.ny.us)
- 3) Sue Charles, Office of Legal Affairs, Phone: (518) 457-2411, Email: [scharles@dot.state.ny.us](mailto:scharles@dot.state.ny.us)
- 4) The Assistant Director or the Director of the Contract Management Bureau, Phone: (518) 457-3583

Further information may be found at:

<https://www.nysdot.gov/main/business-center/contractors/contractors-repository/lobbylaw.pdf>

**4. D/M/WBE Goals.** Projects may have one goal for participation by Disadvantaged Business Enterprises (DBE) when Federally funded, or two separate goals for participation by Minority and Women's Business Enterprises (M/WBE), when Non-Federally funded. If the project you bid has (a) D/M/WBE goal(s), you must document your good faith solicitation efforts. Efforts toward goal attainment should be started prior to the submission of your bid.

**5. You Must Be Bondable.** Statutes, including Section 38 of the Highway Law, require that a low bidder file both a PERFORMANCE BOND and a LABOR and MATERIAL BOND for the full amount of the contract. Arrangements should be made with a surety prior to submitting a bid. Failure to secure bonding could result in the loss of your bid deposit. See §103-03 CONTRACT BONDS, of the Standard Specifications.

**6. You Must Submit a Bid Security with Your Bid or, if Bidding over the Internet with Bid Express (see [www.bidx.com](http://www.bidx.com)), You Must Submit an Electronic Bid Bond Verification with Your Bid.** Every hard copy bid must be accompanied by a bid bond, certified check or bank cashier's check payable to the State of New York. Every internet bid must include an electronic bid bond verification. If you elect to submit a bid bond, it must be on the Department's bond form (CONR 391) and be in the sum of 25% of the total bid. If you elect to submit a check, it must be in the amount specified in the bid proposal. The retention and disposition of such bid bond or certified or cashier's check by the Department shall be pursuant to and in conformity with Section 38(2) of the Highway Law, as amended.

**8. Do Not Alter the Bid Proposal Unless Directed to Do So by Amendment.** Unauthorized alterations could lead to your bid being declared informal. See §102-05 PROPOSAL SUBMISSION, of the Standard Specifications.

**9. Make Sure You Check for and Respond to All Amendments.** Amendments are posted on the Bid Express Web Site and at: <https://www.nysdot.gov/doing-business/opportunities/const-notice>. The Contractor is responsible for ensuring that all Amendments have been incorporated into its bid.

**10. Make Sure You Bid on All Items.** If it is your intent to bid "0", use numeric and written symbols. Leaving blank spaces can render your bid informal. See §102-05 PROPOSAL SUBMISSION, of the Standard Specifications.

**11 Before You Hand in Your Bid, Double Check Your Computations.** Make sure the figures reflect the intent, and check decimal points. Enter a numeric figure for every unit price, and an extension in the total amount bid column.

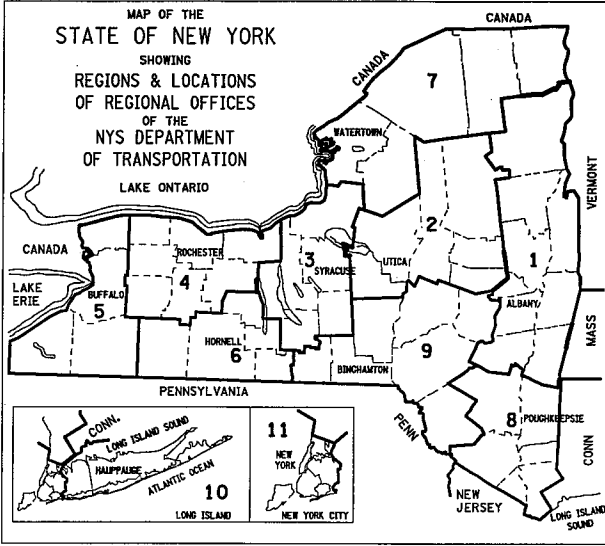
**12. Make Sure You Sign the Bid.** See §102-05 PROPOSAL SUBMISSION, of the Standard Specifications.

**13. Bids Should Be Submitted through Bid Express or in a Sealed Envelope with the Company Name, Street Address, Federal Identification Number, Project Number and Project Description Clearly Marked.** Your Federal Identification number on the envelope should be the same number used to buy plans. Any low bidder must have a current New York State Uniform Questionnaire (CCA-2) (which replaces the CCA-1) on file or submit one within 10 days of receipt of the contract. Questionnaires are available on the NYSDOT website at: <https://www.nysdot.gov/bids-and-lettings/construction-contractors/general-info> or can be obtained by calling (518) 457-1564. Contact the Contract Management Bureau at (518) 457-3583 if you need a reasonable accommodation for an individual with a disability to participate in our program.



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

PIN 8811.67-D261746  
SFY 11/12 ORANGE, DUTCHESS AND PUTNAM  
BRIDGE JOB ORDER CONTRACT  
VARIOUS TOWNS, ORANGE, DUTCHESS AND PUTNAM COUNTIES



PROJECT LOCATION

RECOMMENDED BY:

<i>Walt</i> <i>Nicholas A. Lamborn</i>	2-28-11
REGIONAL DESIGN ENGINEER	DATE
<i>Barbara Mattio</i>	3/1/11
REGIONAL CONSTRUCTION ENGINEER	DATE
<i>Peter M. T. ...</i>	2/28/11
REGIONAL TRANSPORTATION MAINTENANCE ENGINEER	DATE
<i>Michael Cotton</i>	2-28-11
REGIONAL TRAFFIC ENGINEER	DATE



APPROVED:

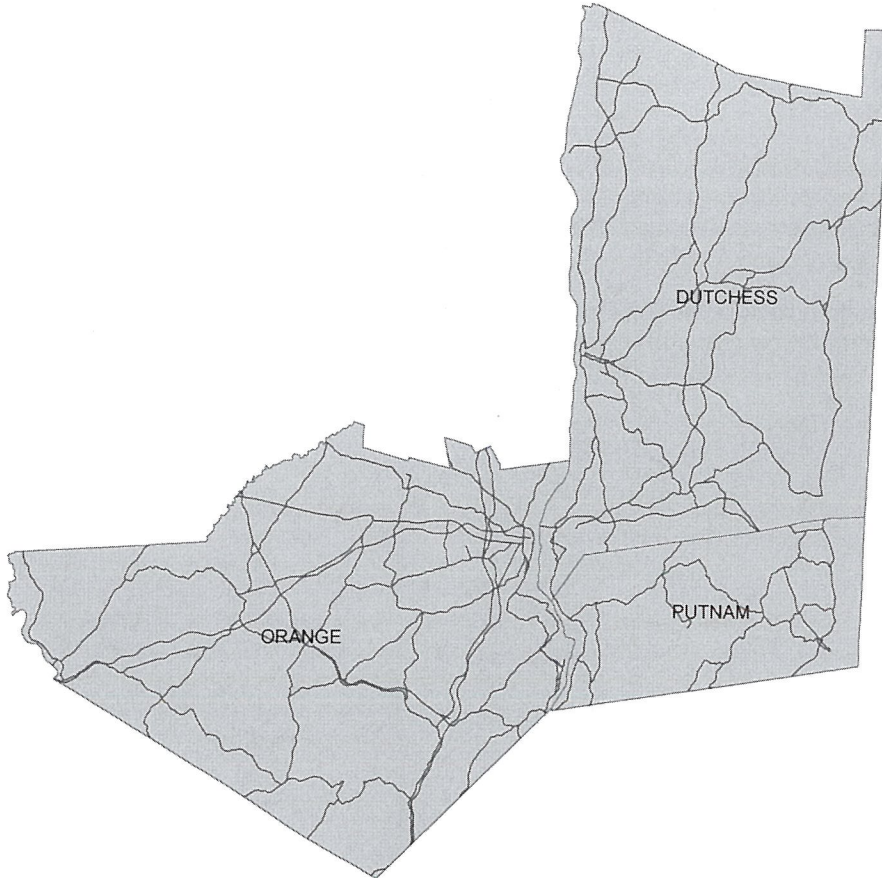
*[Signature]* 3/1/11  
REGIONAL DIRECTOR DATE

THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY THE DEPARTMENT, WHICH ARE CURRENT ON THE DATE OF ADVISEMENT FOR BIDS, SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEET(S) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (US CUSTOMARY) OF MAY 1, 2008, EXCEPT AS MODIFIED ON THESE PLANS AND IN THE ITEMIZED PROPOSAL.

CONTRACT HAS BEEN DESIGNED IN ACCORDANCE WITH NYS DOT POLICIES AND GUIDELINES AND THE FINAL DESIGN APPROVAL DOCUMENT ON 01/21/2011

SFY 11/12 BRIDGE JOB ORDER CONTRACT
VARIOUS TOWNS, ORANGE, DUTCHESS, AND PUTNAM
COUNTIES
COUNTY: VARIOUS
PIN 8811.67




AFFIX SEAL: ON:	ALTERED BY: ON:

PROJECT LOCATION MAP

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:
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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

ALL DIMENSIONS ARE IN FT UNLESS OTHERWISE NOTED	
 STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
PROFESSIONAL SEAL SHEET	REGION 08

FILE NAME = nul\_seed\_2.dwg  
 DATE/TIME = 28-MAY-2011 13:31  
 USER = gcr\mivarroll

<b>REQUIRED CONTRACT PROVISIONS</b>
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ARRA Reporting & Record Keeping Requirements \_\_\_\_\_

D/M/WBE Utilization \_\_\_\_\_

EEO Goals \_\_\_\_\_

D/M/WBE Goals \_\_\_\_\_

Form CONR 9k \_\_\_\_\_

Electronic Bidding \_\_\_\_\_

Federal Aid Contract Provisions \_\_\_\_\_

Percentage Bid Items \_\_\_\_\_

List of Additional Insured \_\_\_\_\_

Railroad Insurance \_\_\_\_\_

New York State Uniform Contracting Questionnaire \_\_\_\_\_

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*NOTE: This form was developed for repetitive use throughout all contract proposals and may identify items not applicable to this specific project.*

**GOALS FOR EQUAL EMPLOYMENT OPPORTUNITY (EEO) PARTICIPATION**

**GOALS FOR MINORITY PARTICIPATION**

COUNTY	%	COUNTY	%	COUNTY	%
Albany .....	3.2	Herkimer .....	2.1	* Richmond	
Allegany .....	6.3	Jefferson .....	2.5	Rockland .....	22.6
Broome .....	1.1	* Kings		St. Lawrence .....	2.5
* Bronx		Lewis .....	2.5	Saratoga .....	3.2
Cattaraugus .....	6.3	Livingston .....	5.3	Schenectady .....	3.2
Cayuga .....	2.5	Madison .....	3.8	Schoharie .....	2.6
Chautauqua .....	6.3	Monroe .....	5.3	Schuyler .....	1.2
Chemung .....	2.2	Montgomery .....	3.2	Seneca .....	5.9
Chenango .....	1.2	Nassau .....	5.8	Steuben .....	1.2
Clinton .....	2.6	* New York		Suffolk .....	5.8
Columbia .....	2.6	Niagara .....	7.7	Sullivan .....	17.0
Cortland .....	2.5	Oneida .....	2.1	Tioga .....	1.1
Delaware .....	1.2	Onondaga .....	3.8	Tompkins .....	1.2
Dutchess .....	6.4	Ontario .....	5.3	Ulster .....	17.0
Erie .....	7.7	Orange .....	17.0	Warren .....	2.6
Essex .....	2.6	Orleans .....	5.3	Washington .....	2.6
Franklin .....	2.5	Oswego .....	3.8	Wayne .....	5.3
Fulton .....	2.6	Otsego .....	1.2	Westchester .....	22.6
Genesee .....	5.9	Putnam .....	22.6	Wyoming .....	6.3
Greene .....	2.6	* Queens		Yates .....	5.9
Hamilton .....	2.6	Rensselaer .....	3.2		

\* The following goal ranges are applicable to the indicated trades in the Counties of Bronx, Kings, New York, Queens and Richmond.

Electricians.....	9.0 to 10.2	Bricklayers.....	13.4 to 15.5
Carpenters .....	27.6 to 32.0	Asbestos workers.....	22.8 to 28.0
Steam fitters .....	12.2 to 13.5	Roofers .....	6.3 to 7.5
Metal lathers.....	24.6 to 25.6	Iron workers (ornamental).....	22.4 to 23.0
Painters.....	26.0 to 28.6	Cement masons.....	23.0 to 27.0
Operating engineers .....	25.6 to 26.0	Glaziers.....	16.0 to 20.0
Plumbers .....	12.0 to 14.5	Plasterers .....	15.8 to 18.0
Iron workers (structural) .....	25.9 to 32.0	Teamsters.....	22.0 to 22.5
Elevator constructors .....	5.5 to 6.5	Boilermakers .....	13.0 to 15.5
		All others .....	16.4 to 17.5

**GOAL FOR PARTICIPATION OF WOMEN**

The last publication of a goal for the participation of women was April 7, 1978 (43 FR 14888, 14900). Pursuant to 41CFR 60-4.6, the 6.9% goal published on that date is hereby made the goal for all contracts and grant agreements, until further notice.

**GOALS FOR DISADVANTAGED/MINORITY/WOMEN'S BUSINESS ENTERPRISE  
(D/M/WBE) PARTICIPATION**

The Department has established the following utilization goal(s) for this contract, expressed as a percentage of the total contract bid amount. For clarification of Disadvantaged Business Enterprise (DBE) Utilization, Minority Business Enterprise (MBE) Utilization or Women's Business Enterprise (WBE) Utilization requirements refer to §102-12 *D/M/WBE Utilization* of the Standard Specifications.

Disadvantaged Business Enterprise (DBE) Utilization Goal	_____ % (Federal-Aid Only)
Minority Business Enterprise (MBE) Utilization Goal	<u>  0  </u> % (Non Federal-Aid Only)
Women's Business Enterprise (WBE) Utilization Goal	<u>  0  </u> % (Non Federal-Aid Only)

Directories and/or Information related to the current certification status of Disadvantaged Business Enterprises can be obtained from the NYS Unified Certification Program website at:  
<http://biznet.nysucp.net>

Direct questions concerning Disadvantaged Business Enterprise Utilization to:

NYS Department of Transportation  
Office of Construction  
50 Wolf Road Pod 51  
Albany, New York 12232  
(518) 457-6472

Direct questions concerning Disadvantaged Business Enterprise Certification to:

NYS Department of Transportation  
Contract Audit Bureau  
DBE Certification  
50 Wolf Road, 1st Floor South  
Albany, New York 12232  
(518) 457-3180

Directories and/or information related to the current certification status of Minority and Women's Business Enterprises, can be obtained by contacting the:

Empire State Development Corporation  
Office of Minority and Women's Business Development  
30 S. Pearl Street  
Albany, NY 12245  
(518) 292-5250  
[www.empire.state.ny.us/Small\\_and\\_Growing\\_Businesses/mwbe.asp](http://www.empire.state.ny.us/Small_and_Growing_Businesses/mwbe.asp)

CONR 9k (1/02) **SUPPLEMENTAL INFORMATION AVAILABLE TO BIDDERS**

The following information is available at the Office having jurisdiction for this project, as identified in the advertisement for bids, for inspection and review prior to the letting date.

The bidder's signature on this proposal certifies that they have made themselves aware of the availability, for their inspection and review prior to the letting date, of the information indicated below:

Available	Not Available	INFORMATION
	X	Utility Estimate Sheets with Names of Utility Officials
	X	Earthwork Cross Section Sheets
	X	Earthwork Sheets
	X	Drainage Estimate Sheets
	X	Sign Face Layouts
	X	Logs of Subsurface Exploration
	X	Tabulated Results of Probings
	X	Tabulated Depth to Bed Rock
	X	Logs Showing Laboratory Description of Soils Samples
	X	Laboratory Test Data from Soil Samples
	X	Rock Outcrop Maps
	X	Granular Materials Resources Survey Reports
	X	Terrain Reconnaissance Reports
	X	Subsurface Data Obtained from Sources Outside the Dept.
	X	Granular Material Sources Report
	X	Rock Cores (available for inspection)
	X	Record Plans
	X	Applicable Asbestos Blanket Variances
	X	Special Reports or Other Information (Identity Below)



## NYS DOT Electronic Bidding - Trns•port Expedite and Bid Express

**Section 1. Summary:** The New York State Department of Transportation (NYS DOT) uses Trns•port Expedite and Bid Express for electronic bidding. To see if internet bidding through Bid Express is available for a specific project, check New York's web pages at <https://www.bidx.com/main/index.html>

Expedite allows bidders to receive electronic proposal bid item information from the Department's internet web site and to produce both an electronic and a paper-based bid. Bidders need to enter unit prices only, all other information is supplied by the software. Expedite is provided free of charge, and can be used on almost any Windows-compatible PC. It integrates with many existing electronic bid preparation software, and has import/export capability for use with database and spreadsheet systems. Benefits may include:

- A. Instant entry of item data. Bid data import in seconds and users of computer systems that collect item data need not spend hours constructing bid files from "item libraries."
- B. Automated calculations and error-checking. Expedite calculates item and overall bid totals on-the-fly, as estimators work through the list, and alerts estimators if an item is accidentally omitted. This greatly reduces errors in calculation and reasoning.
- C. Electronic amendments. Amended item bid data is downloaded and applied to bids, with automatic recognition of changes.
- D. Faster delivery of item bid data. Electronic files of item bid data will be posted to the NYS DOT website to coincide with advertising and contract proposal sale dates. Amended item bid data will be posted as soon as it is available.
- E. Faster processing of contract documents and verification of bid results. The Department processes electronic bids much faster than handwritten bids.

Bid Express allows secure, encrypted bid submittal over the internet. It integrates with Expedite and includes electronic bid bond verification. Bid Express is a fee-based service. Benefits may include:

- A. Real-time bid submittal from any location
- B. No worries about driving bids to Albany or mail services arriving after the deadline. Contractors who use Bid Express do not have to submit hard copies of any documents in advance of the letting.
- C. Ability to submit a "safety bid" early while continuing to solicit better quotes from subs and suppliers and to overwrite the safety bid with a new bid right up to the submission deadline
- D. As data accumulates, the ability to search & analyze bids on prior contracts for specific work items, by specific competitors, etc.
- E. Ability to solicit and receive quotes from subcontractors

For additional information and downloads, please visit the NYS DOT and Bid Express websites: <https://www.nysdot.gov/bids-and-lettings/construction-contractors/electronic-bid-system>  
<https://www.bidx.com/main/index.html>

**Section 2. Participation and Relationship to Paper Documents:** NYS DOT recommends and encourages contractors to bid electronically with Bid Express because of its many advantages, but contractors are not required to bid electronically. Contractors who use Bid Express should not

## NYSDOT Electronic Bidding - Trns•port Expedite and Bid Express

submit a hard copy paper bid. If NYSDOT receives both a Bid Express internet bid and a hard copy printed bid from the same contractor, the Bid Express internet bid will prevail.

Bidders who do not use Bid Express are still encouraged to submit an electronic bid file on diskette or CD attached to their hard copy paper bid. NYSDOT will not accept electronic bids on diskette or CD without a hard copy paper bid. Expedite writes a matching date-time group in both the computer file and on every printed bid page as per Department specifications. This date-time helps verify that the electronic and printed files are consistent. If there is any discrepancy between an electronic file submitted on diskette or CD and the hard copy paper bid, the paper bid will prevail.

**Section 3. Third-party software.** The Department endorses no particular product but expects all such vendors and individuals to voluntarily keep pace with changes in Department specifications.

**Section 4. Proposal Notes and Changes By Amendment:** Contractors are solely responsible for recognizing and properly responding to any and all special notes and circumstances printed in the contract proposal and any and all changes by amendment from the amendment documents and/or notices communicated to them by the Department's Plan Sales Unit.

If an amendment involves changes to item bid data, an amended Expedite file will be posted to the Department's website and to the Bid Express website, and this file must be applied to your electronic bid. If there is any discrepancy in the itemized proposals published in hard copy and electronic formats, in either the contract pay items or quantities, the Department will evaluate the bids based only on that portion that is common to all formats. For example, if an item is missing from any format, the bids will be evaluated excluding that item and if item quantities are different in any format, the bids will be evaluated using the lowest item quantity.

Please notify the Department at 888-664-9343 or 518-485-8111 if you find any such discrepancies. However, not all amendments will involve changes to item bid data. Do not bid without carefully reviewing the printed proposal and any and all changes by amendment. Proposal notes and circumstances include, but are not limited to, printed information on alternate, fixed and/or limited cost items and/or special circumstances regarding item placement and use.

**Section 5. Tips and Precautions:** All electronic bidders should:

- A. Allow at least five business days to obtain a digital ID and password for internet bidding through Bid Express
- B. Follow the procedures in NYSDOT's "Expedite BID Instructions", which are posted on the NYSDOT website at <http://www.dot.state.ny.us/cmb/contract/ebs/ebshome.html>  
The Expedite downloads & demos and the software Help messages are also useful.
- C. Enter the Agency as NYSDOT.
- D. Use the appropriate Federal-ID and firm name. Federal-ID must be in the format 12-3456789. If possible, joint ventures should create and save a new Expedite export configuration with the Federal-ID and legal name assigned to the joint venture. Alternatively, use the Federal-ID and name of the joint venture partner with the largest financial commitment or managing role in cases of 50/50 financial commitments.
- E. Enter days for the B portion(s) of A + B bids on the Proposal Sites folder (if applicable).

**NYSDOT Electronic Bidding - Trns•port Expedite and Bid Express**

- F. Enter the required info in the JURAT and Disclosure of Lobbying Activity folders if submitting bid through Bid Express.
- G. Enter the required info in the Bid Bond folder if submitting bid through Bid Express and click Verify to verify the bid bond.
- H. All folders should be green if submitting bid through Bid Express. Submitting a bid through Bid Express with any red folders could lead to your bid being declared informal.
- I. If you submit your electronic bid file on a CD or diskette attached to your paper bid, include only one file per bid. The diskette or CD must be labeled with the following information:
  - 1) Firm name
  - 2) Letting date
  - 3) D number
  - 4) A statement as to whether the paper bid does or does not include any handwritten changes from the electronic bid file.

Import, export and print files as per the instructions. Maintain consistent date-time groups. Never mix partial printouts with differing date-time groups or create electronic or print files in independent efforts that cause different date-time groups. Mismatched date-time groups indicate files of a different age and origin and invalidate the electronic portion of your bid.

**Section 6. Additional Information and Assistance: For assistance with...**

- A. Bid Express – Contact the Bid Express Help Desk at (352) 381-4888
- B. NYSDOT electronic bidding specifications, Expedite software, Department website problems and general concerns - Contact the NYSDOT Information Services Bureau Help Desk, at 888-664-9343 or 518-485-8111.
- C. Third-party Software - Contact the author or vendor of your software. The Department is neither authorized nor able to assist you with the mechanics of a particular software package.

Last Update: February 19, 2009

CONR 149 (3/08)



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION  
ALBANY, NY 12232  
<https://www.nysdot.gov>

STANLEY GEE, ACTING  
COMMISSIONER

DAVID A. PATERSON  
GOVERNOR

### NEW YORK STATE UNIFORM CONTRACTING QUESTIONNAIRE

In accordance with Section 103-01 of the Standard Specifications, the New York State Department of Transportation requires that all low bidders and proposed subcontractors present evidence of ownership, experience, ability, and financial standing. All low bidders and proposed subcontractors must have a fully completed New York State Uniform Contracting Questionnaire on file with the Department to be considered for the award of a contract or the approval of a subcontract. If a current questionnaire is not on file at the time a low bid is submitted, the Department may exercise its option under Section 38 of the Highway Law and hold the low bidder's bid deposit until such time as a completed questionnaire is received. New York State Uniform Contracting Questionnaires can be obtained by calling (518) 457-1564 or from the following web site: <https://www.nysdot.gov/portal/page/portal/bids-and-lettings/construction-contractors/general-info>

Any low bidder who does not have a completed New York State Contracting Questionnaire on file within ten days of receipt of the contract for execution may be subject to forfeiture of the amount of bid deposit pursuant to Section 103-02 of the Standard Specifications.

**REVISIONS TO STANDARD SPECIFICATIONS  
AND OTHER VARIANCES**

Variances

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Asphalt and Fuel Price Adjustment

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*NOTE: This form was developed for repetitive use throughout all contract proposals and may identify items not applicable to this specific project.*

## ERRATA to 2008 STANDARD SPECIFICATIONS

Make the following change to the *Standard Specifications of May 1, 2008* :

*(Issued with Prop Makeup for 9/4/08)*

**Page 5, insert**, in numerical sequence, the following:

“Section 625 - Survey Operations, Row Markers, and Permanent Survey Markers.....609”

**Page 12, insert**, in numerical sequence, the following:

“SECTION 726 - DETECTABLE WARNING UNITS.....	1005
726-01 Surface-Applied Detectable Warning Units.....	1005
726-02 Embedded Detectable Warning Units.....	1006
SECTION 727 - PAVEMENT MARKING MATERIALS.....	1006
727-01 Extruded Thermoplastic.....	1006
727-02 Removable Raised Pavement Markers.....	1008
727-03 Epoxy Paint.....	1009
727-04 Permanent Pavement Tape.....	1011
727-05 Glass Beads for Pavement Markings.....	1012
727-06 Removable Pavement Tape.....	1013
727-07 Removable Wet-Night Reflective Tape.....	1015
727-08 Permanent Wet-Night Reflective Tape.....	1016
727-09 Traffic Paint.....	1018”

Make the following change to the *Standard Specifications of May 1, 2008* :

*(Issued with Prop Makeup for 1/8/09)*

**Page 530**, Section 608-3.01 Concrete Sidewalks and Driveways, third paragraph, first sentence,

**Delete** "When using fiber reinforcement it shall be added to the concrete at a rate of 2 pounds of fibers per cubic yard of concrete".

And **replace** with "When using fiber reinforcement it shall be added to the concrete at a rate of 1.5 pounds of fibers per cubic yard of concrete".

**Page 606**, Section 623-5 Basis of Payment, **delete** the M from all item numbers.

**Page 911**, TABLE 715-01-1 Charpy V-Notch Impact Requirements, **replace** the column entries of ENERGY with 15, 15<sup>1</sup>, 15<sup>1</sup>, 15<sup>1</sup>, 20<sup>1</sup>, 20

Make the following change to the *Standard Specifications of May 1, 2008* :

*(Issued with Prop Makeup for 5/7/09)*

**Page 143**, Section 201-3.02, second paragraph, first sentence, **replace** “15 feet” with “16 feet”

**Page 147**, Section 202-3.01, third from the last paragraph, first sentence, **replace** “3 feet” with “42 inches”

**Page 148**, Section 202-3.02F, third paragraph, first sentence, **replace** “3 feet” with “42 inches”

**Page 153**, Section 202-3.09, fourth paragraph, **replace** the second sentence with “If excavation support is necessary to support structures or other improvements, or if the alternatives of laying back slopes or benching are not available, the support system shall be as indicated in the contract documents.”

**Page 157**, Section 203-1.09, last line, **replace** “Analysis” with “Science”

**Page 157**, Section 203-1.15, last line, **replace** “below 32°F.” with “32°F or less.”

## ERRATA to 2008 STANDARD SPECIFICATIONS

Page 158, *replace* Section 203-1.17 with the following:

**“203-1.17 Cleaning Culverts, Closed Drainage Systems, Drainage Structures and Manholes.** This work shall consist of cleaning and keeping clean, existing culverts, closed drainage systems, drainage structures and manholes indicated in the contract documents or where directed by the Engineer, for the duration of the contract.”

Page 161, Section 203-3.02, second paragraph, *replace* “Analysis” with “Science”

Page 163, Section 203-3.05C, *replace* “215 feet” with “212 feet” throughout

Page 163, Section 203-3.05C, *replace* “a Scaled Distance of 30 feet” with “a Scaled Distance of 30” throughout

Page 163, Section 203-3.05C, between the two equations, *replace* “AND” with “OR”

Page 167, Section 203-3.12B.2., fourth paragraph, first sentence, *replace* “CFR” with “PLI”

Page 168, Figure 203-3 Vibratory Compactors - 800 is missing on the vertical axis of the Figure.

Page 171, Section 203-3.14C, *replace* “Select Granular Subgrade, §203-2.202E,” with “Select Granular Subgrade, §203-2.02E,”

Page 176, Section 203-5, Pay Item list, in numerical sequence *add* the following:

“203.22	Sand Backfill (screenings)	Cubic Yard
203.23	Sand Backfill (Type 1B)	Cubic Yard
203.24	Sand Backfill (Type 1A)	Cubic Yard”

Page 176, Section 203-5, Pay Item list, item 203.51, under Pay Unit, *replace* “Foot” with “Linear Foot”

Page 182, Section 205-3.02A1.&2., 3.02B, *delete* “0.25 millimeter and 0.15 millimeter”

Page 183, Section 205-3.03, third paragraph, third sentence, *delete* “10°C”

Page 184, Section 205-3.04, first paragraph, fifth sentence, *replace* “0.3 meters” with “one foot”

Page 184, Section 205-3.04, first paragraph, third sentence from the end, *replace* “EIC” with “the Engineer”

Page 186, Section 205-5, Note at the end, *replace* “nnn” with “nn”

Page 192, Section 209-2.04, first paragraph, *delete* the second sentence “Strawbale shall be §713-19 Straw.”

Page 198, Sections 209-4.01,.02,.09,.10,.11, *replace* “square feet or square foot” with “square yard”

Page 215, Section 307-3.11, fourth sentence *replace* “0.02 gallons/square yard” with “of 0.2 gal/sy”

Page 218, Section 308-3.07, first paragraph, third sentence *replace* “nine metric tons” with “10 tons”

Page 270, Section 407-4, Volume equation, *replace* “ 0.00045” with “0.00025”

Page 500, Section 605-2.02, second paragraph, *replace* “Soil Control Procedure (SCP)” with “Geotechnical Control Procedure (GCP)”

Page 602, Section 620-2.05, third paragraph, *replace* “Soil Control Procedure (SCP)” with “Geotechnical Control

## ERRATA to 2008 STANDARD SPECIFICATIONS

Procedure (GCP)”

Page 603, Figure 620-1 under Medium Stone Size, *replace* “6 inch” with “4 inch”

Page 603, table following Figure 620-1 entitled Approximate Shape, *add* “Figure 620-2” to title

Page 605, Section 620-3.06, last word, *replace* “water” with “weather”

Page 606, Section 623-3, *replace* with the following:

“623-3 CONSTRUCTION DETAILS. Screened gravel, crushed gravel, crushed stone or crushed slag shall be placed as shown on the plans or as directed by the Engineer.”

Page 606, Section 623-5, all Payment Item Numbers, *delete* “M”

Page 609, Section 624-5, all Payment Item Numbers, *delete* “M”, and *replace* “624.020611” with “624.020610”

Page 773, Table 703-2, under Material Designation, 5<sup>th</sup> and 6<sup>th</sup> row, *replace* “12.5mm” with “1/2 inch”

Page 774, Table 703-4, at Size Designation 4 and Screen Size 2 in, *replace* “0.15” with “0-15”

Page 780, Section 703-09, under Method of Measurement, *replace* “metric tons” with “tons”

Page 1048, Section 732-09, Material and Fabrication Requirements, first sentence, *replace* “15 3/4 inches” with “16 inches”

On page 1047, under 732-04 SAMPLERS, replace MATERIAL REQUIREMENTS with the following:

“MATERIAL REQUIREMENTS. Samplers shall be equipped with a ball check in the head section and have a minimum inside length of 20 inches. Samplers shall conform to the following sizes:

Sampler Diameter (Inches)	Outside Diameter (Inches)	Cutting Shoe Opening (Inches)
2	2	1 <sup>3</sup> / <sub>8</sub>
2½	2½	1 <sup>7</sup> / <sub>8</sub>
3	3	2 <sup>3</sup> / <sub>8</sub>
3½	3½	2 <sup>7</sup> / <sub>8</sub>

On page 1048, under 732-10 BOULDER AND ROCK CORE BOXES, replace the *first paragraph* under MATERIAL AND FABRICATION REQUIREMENTS with the following:

“MATERIAL AND FABRICATION REQUIREMENTS. Boxes shall be fabricated of white pine, Grade No. 2 common or better, 1 inch stock (finished ¾ inch) thickness or an approved equal material and conform to the overall box dimensions given below:

Core Box Size	Length (Inches)	Width (Inches)	Height (Inches)
“AX”	61½	9 <sup>5</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>
“BX”	61½	10¾	3¼
“NX”	61½	10 <sup>7</sup> / <sub>8</sub>	3¾
“HX”	61½	11 <sup>1</sup> / <sub>8</sub>	4 <sup>5</sup> / <sub>8</sub>

Core rows shall be separated by wooden or tempered hardboard, ¼ inch thick strips recessed to ⅜ inch depth and glued with waterproof glue at the bottom and ends of the box.”

Page 1049, Section 732-12, Material Requirements, *replace* with the following:

“MATERIAL REQUIREMENTS.

**Cement.** The material shall meet the requirements of §701-01 Portland Cement Type 1 or 2.



## ERRATA to 2008 STANDARD SPECIFICATIONS

**Water.** The water for the mix shall conform to the requirements of §712-01 Water.

**Bentonite Powder.** There are no material requirements for the bentonite, except it shall be supplied in powder form from a reputable manufacturer and pass a No. 200 sieve."

Make the following change to the *Standard Specifications of May 1, 2008* :

*(Issued with Prop Makeup for 9/3/09)*

**Page 656**, Table 645-1 Wind Load Criteria, row 1 column 4 and 5, **replace** "140 ft." with "14.0 ft".

**Page 657**, Table 645-2 Allowable Sign Areas, under Wooden Post Sections with Embedment of 6.0 ft., **replace** "3.5 x 3.5" with "3.5 x 5.5".

**Page 661**, Payment Item 645.8XYYZZ Type B Sign Posts, under YY Section, **replace** 01 to 08 with "01 S3x5.7, 02 W6x9, 03 W6x12, 04 W8x15, 05 W10x19, 06 W10x22, 07 W12x26, 08 W14x34"

Make the following change to the *Standard Specifications of May 1, 2008* :

*(Issued with Prop Makeup for 1/7/10)*

**Page 386**, Section 565-2.03, Second line, **replace** with the following:

"Type M.R. Bearings                    716-06.01 or 716-07.01"

**Page 609**, Section 624-5, Payment Item Numbers 624.020101 and 624.020601 under Pay Unit, **replace** "Metric Ton" with "Ton"

Make the following change to the *Standard Specifications of May 1, 2008* :

*(Issued with Prop Makeup for 5/6/10)*

**Page 218**, Section 308-3.07, **Page 608**, Section 624-4.01, **Page 641**, Sections 638-4 and 638-5, **Page 780**, Section 703-09, Method of Measurement, **replace** "metric ton" with "ton"

**Page 769**, Table 702-9, under Tact Coat Material Designations, **replace** 702-9000, 702-9001, 702-9002, 702-9003, 702-9004 with 702-9001, 702-9002, 702-9003, 702-9004, 702-9005 respectively.

**Page 770**, Table 702-10, **replace** Note 1 with XX = 01, 02, 03, 04, or 05

Make the following change to the *Standard Specifications of May 1, 2008* :

*(Issued with Prop Makeup for 9/2/10)*

**Page 702**, Section 663-3.23 Hydrostatic Testing, last sentence, **replace** "1035 kPa" with "150 psi"

**Page 702**, Section 663-4.01 Water Pipe, **replace** "0.1 m" with "1/2 foot"

Make the following change to the *Standard Specifications of May 1, 2008* :

*(Issued with Prop Makeup for 1/6/11)*

**Page 520**, Section 606-5, under Payment Item Numbers, **delete** Item 606.36.

Make the following change to the *Standard Specifications of May 4, 2006* :

*(Issued with Prop Makeup for 5/5/11)*

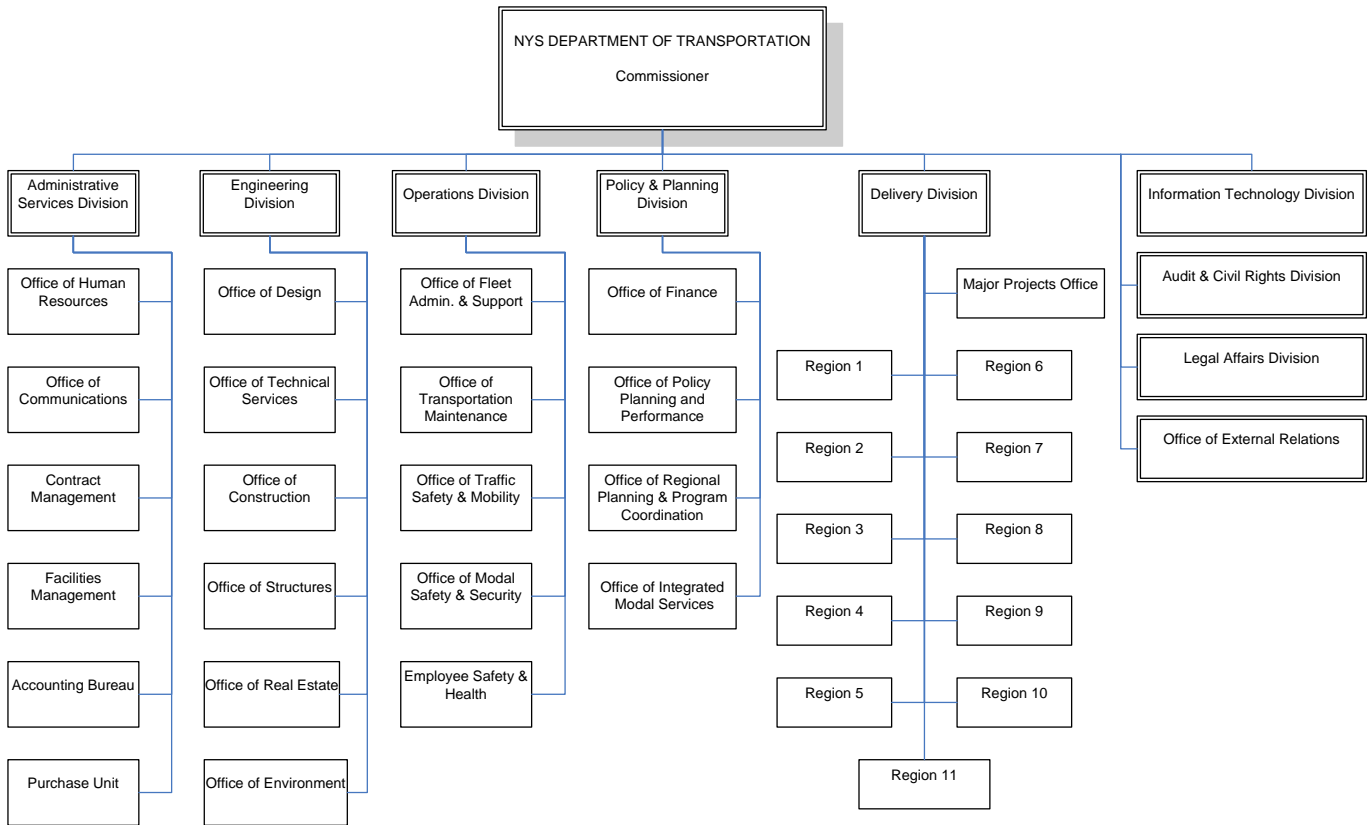
**Page 289**, Section 501-2.04 C Mobile Concrete Mixing Units, **replace** Tolerances for Water and Admixtures with the following, "Admixtures  $\pm 3\%$ , Water  $\pm 1\%$ "

**ERRATA to 2008 STANDARD SPECIFICATIONS**

**Page 524**, Section 607-2 Materials, Steel and Iron Posts, Rails, Braces and Fittings for Chain-Link Fence, *replace* “710-10.03” with “710-10”

OFFICE AND DIVISION NAME CHANGES

The names of the individual Offices and Divisions in the Department have changed, The Office and Division names included in the Standard Specifications shall be referred to as shown in the Organization Chart below (e.g., Office of Engineering changed to Engineering Division, Design Division changed to Office of Design,...).



5/6/08

## REVISIONS TO STANDARD SPECIFICATIONS SECTION 100 - ELECTRONIC PLANS AND AMENDMENTS

Make the following changes to the Standard Specifications dated May 4, 2006 and May 1, 2008:

**Delete** §102-05 *Proposal Submission* and **Replace** it with the following:

### **102-05 PROPOSAL SUBMISSION.**

Each proposal shall be submitted on the proposal form or electronic bid file prepared by the Department for that individual contract. The deadline for submitting a proposal is found in the published notice calling for proposals. Any proposal received after the time specified in the published notice, as modified by any Amendment, will not be accepted. All blank spaces in the proposal form shall be filled in as noted, and no change shall be made in the wording of the proposal or in the items mentioned therein. Bidders shall use dark permanent ink in completing hard copies of the proposal form, and ensure the form is clear and legible. Proposals that are illegible or that contain any omission, erasures, non-permanent ink, alterations, additions, or items not called for in the itemized proposal or that contain irregularities of any kind, may be rejected as informal. Any proposal which does not contain prices opposite each of the items for which there is a quantity exhibited in the itemized proposal, or which shall in any manner fail to conform to the conditions of the published notice inviting proposals, may be deemed informal.

The State is responsible for providing notice of Amendments only to those persons or firms listed as having purchased plans and/or proposals from the Department, and those that made a specific request of the Department for Amendments. Persons or firms that obtain contract documents from sources other than the Department bear the sole responsibility for obtaining any Amendments issued by the Department.

For proposals submitted on the proposal form, the Bidder shall sign in the space provided in the proposal form, with its signature. An officer of a corporation or a member of a partnership signing for the bidder shall place his or her signature and title after the word "By" under the name of the Contractor. The same procedure shall apply to the proposal of a joint venture by two or more bidders with each party of the joint venture submitting a separate signature page. If the signature is by an agent or attorney-in-fact for the joint venturers, then the proposal shall be accompanied by an authenticated copy of the evidence of its authority to act on behalf of all of the joint venturers.

For internet proposals submitted through Bid Express, the Bidder shall submit and digitally sign the electronic bid. For joint ventures submitted electronically, an authenticated copy of the evidence of the authority of the agent or attorney-in-fact for the joint venturers to act on behalf of all of the joint venturers must be submitted to the Contract Management Bureau prior to the Letting.

If the proposal is made by an individual, the individual's address shall be given. If the proposal is made by a corporation, the names and addresses of the president, secretary and treasurer shall be given. If the proposal is made by a partnership, the names and addresses of the partners shall be given.

**Delete** §102-07 *Modification Or Withdrawal Of Proposal* and **Replace** it with the following:

### **102-07 MODIFICATION OR WITHDRAWAL OF PROPOSAL.**

Permission will not be given to modify or explain by e-mail, telephone, letter or otherwise, any proposal or bid after it has been deposited with the Department. No proposal shall be withdrawn or canceled before the time designated for opening such proposals publicly except upon such conditions as the Commissioner may deem to be necessary.

No proposal shall be withdrawn or canceled after the time designated for opening such proposals publicly, except to exercise the option as provided herein. Any bidder or its duly authorized agent who is physically present at the letting and who has submitted proposals on more than one project of any one letting may, at its option and upon written request to an authorized Department representative at the letting, withdraw any or all of its additional proposals after the person who opens and reads the bids has announced that such bidder has submitted the lowest proposal on a project for which bids have last been read. When this option is exercised, the proposals for other projects in the letting will be returned to the bidder unopened or, if the bid was submitted electronically, the Department will delete the bid(s) and the bid will not be made public. No returned proposals will be considered after the bidder has exercised its privilege to withdraw the same. Any bidder exercising the privilege of so withdrawing its bid or bids waives all claims that may arise should it be found that its opened proposal is informal or for any other reason is unacceptable to the Department. The Department will open and read proposals in the order in which they are drawn and not in the order in which the projects are advertised.

**REVISIONS TO STANDARD SPECIFICATIONS SECTION 100 - ELECTRONIC PLANS AND AMENDMENTS**

**Delete** the first item under the heading “**BY EXECUTING THIS PROPOSAL, THE CONTRACTOR AGREES TO:** of §102-17 and **Replace** it with the following:

1. Perform all work listed in accordance with the Contract Documents including all amendments, (found at <https://www.nysdot.gov/doing-business/opportunities/const-notices>), at the unit prices bid; subject to the Changed Conditions provisions if applicable;

**Delete** the first paragraph of §103-01 and **Replace** it with the following:

**103-01 CONTRACT AWARD.** The award of contract will be made only to the lowest responsible bidder as will best promote the public interest as provided by Section 38 of the Highway Law. The lowest bid will be determined by the Commissioner on the basis of gross sum for which the entire work will be performed, arrived at by a correct computation of all contract pay items specified in the proposal, at the unit prices stated in the proposal. If there is any discrepancy between the hard copy and electronic format of the itemized proposals published by the Department, in either the contract pay items or quantities, the Department will evaluate the bids based only on that portion that is common to all formats. The Department reserves the right to reject any or all bids in the best interest of the State pursuant to Section 38 (4) of the Highway Law.

**METHODS & EQUIPMENT  
LAWS, RULES, REGS, & PERMITS**

Make the following changes to the Standard Specifications dated May 4, 2006 and May 1, 2008:

May 4, 2006, Page 82 and May 1, 2008, Page 80;

**Delete** §105-03 *Methods and Equipment* and **Replace** it with the following:

**105-03 METHODS AND EQUIPMENT.** Where particular methods or equipment are specifically required, the Contractor may apply in writing to the Regional Director to use alternate methods and equipment to provide the same results. Such alternates may be used only after favorable recommendation by the Regional Director and the written approval of the Deputy Chief Engineer (Construction). When, in the opinion of the Regional Director, satisfactory results are not being obtained using the Contractor's alternate methods and equipment, the methods and/or equipment shall be immediately modified to produce satisfactory results.

The Contractor may use the most efficient equipment that is consistent with conditions at the time of use. It is anticipated that seasonal or weather conditions combined with the nature of the terrain will often require the use of lighter and smaller equipment than might be used under optimum conditions.

Construction operations requiring soil compaction shall not be performed from November 1<sup>st</sup> thru April 1<sup>st</sup> except with an approved Winter Earthwork submittal in accordance with §203-3.01 A. *Winter Earthwork Submittal*. In all work incorporated into the final product, the Contractor shall not place material that is frozen, or place fill material on frozen ground regardless of the date.

May 4, 2006, Page 103 and May 1, 2008, Page 102;

**Insert** the following at the end of §107-01 *Laws, Rules, Regulations and Permits*:

**D. Archaeological Salvage.** Whenever, during the course of construction, historical or prehistoric objects or human remains are encountered, such objects shall not be destroyed or moved. The Contractor shall stop work to avoid disturbing such areas and notify the Engineer immediately.

The Engineer will notify the appropriate Department personnel and other authorities and arrange to have an immediate inspection of the site conducted.

Removal or salvage of archaeological objects will be considered extra work. Such work will be limited to that performed within the right-of-way, and at any location under direct control of the Contractor used as a source of approved borrow material or a spoil disposal area.

**SURVEY AND STAKEOUT**

Make the following changes to the Standard Specifications dated May 4, 2006 and May 1, 2008:

May 4, 2006, Page 88 (as modified by EI 06-007) and May 1, 2008, Page 85;

**Delete** §105-10 *Survey and Stakeout* in its entirety and **Replace** it with the following:

**105-10 SURVEY AND STAKEOUT.**

Prior to the start of construction work, all right of way markers, property line markers and survey control markers located in or adjacent to areas which may be disturbed during construction shall be properly protected and tied to fixed reference points or located from established contract control. Upon completion of the work, all right of way or property line markers or survey markers that have been disturbed by the Contractor, shall be reset under the direction of a Land Surveyor. Field location notes shall be recorded and made available to the Engineer upon request at no additional cost to the State.

All survey control and boundary location work shall be performed in accordance with the Department's *Land Surveying Standards and Procedures Manual* under the direction of a Land Surveyor.

All survey work performed for quality control by the Contractor and for quality assurance by the Department should both utilize: (1) similar levels of measurement precision and methods to perform positional measurements, (2) the same control network from which measurements are made, and (3) the same survey measurement procedures to ensure consistency of results.

Terrain features are measured and positioned by various methods relative to the contract control network established for each contract. The precision with which an instrument or equipment positions a point is related to the quality of the method by which measurements are made, and the ability to duplicate the same measurement. The local accuracy of a located point is the closeness of the measured or computed value to a standard or accepted value (actual spatial position on the earth). Positional tolerance is the allowable spatial difference between making measurements by two different methods or by the same method at separate times, all of which have the same level of precision.

Horizontal coordinates and vertical elevations of existing features provided as part of the contract are located in the field based on accuracies achievable for each positional point relative to the contract control. Positional accuracies are directly related to the strength of the contract control network, the methods used to make the measurements, the precision of the instruments used to measure to the feature, and how definable the feature is which is being located. Point feature locations represent a single position (for example: property line marker, sign post, utility pole, or fire hydrant) and can be re-identified or verified in the field to within a small variation (high confidence level) from where they were initially positioned. Linear feature locations define the alignment of that feature. That alignment can be verified to within a specific tolerance depending on the spacing or frequency at which the points were originally measured to define that alignment. Straight or uniformly curved linear features (for example: curblines, edge of roadway, or edge of sidewalk) which can be easily defined in the field should have a relatively small positional variation from their designed location when compared to a verified field location. Irregular shaped or not as clearly defined linear features (for example: break lines, ditchlines, treelines, or environmental area perimeters) which are sometimes difficult to define or delineate precisely in the field, could have a larger variation from where they were initially positioned when compared to a field-verified location.

Digital terrain model (DTM) surfaces, when provided by the Department, are made up of a combination of point and linear features. The precision of a data collection instrument does not necessarily indicate what positional tolerance should be expected of any feature verified from an existing DTM. The location or elevation of a feature selected from a DTM surface can, at best, be determined by interpolating the horizontal position or elevation between previously located points. The verification of any specific elevation on the DTM surface is directly related to: (1) the spacing of collected data or breaklines used to produce that surface; (2) the uniformity of the surface being measured; (3) the steepness of the slope of that surface; and (4) how obscured the surface is from the measuring technique used to originally locate the surface. Standardized procedures for determining the spacing/frequency of point and linear features (including break lines), are critical to providing consistent results. Department standardized procedures for determining feature locations are described in both the "Land Surveying Standards and Procedures Manual", and the "Specifications for Photogrammetric Stereocompilation".

Verification of the positional tolerance of the DTM surface elevation requires a comparison of the original

**SURVEY AND STAKEOUT**

collected point data with recollected point data measured at the same horizontal locations. Field comparisons to interpolated DTM surfaces or recreated surface information (from other information sources) shall not be used for verification of the positional tolerance of a feature. Comparisons of re-measured point data can only be made with the original collected point data, not to interpolated positions. Measurements for verification of DTM point data shall also be made from the same contract control network, and by instruments capable of an equal or greater precision.



Make the following changes to the Standard Specifications of May 1, 2008:

Page 104, **Delete** §107-05B. *Project Safety and Health Plan* and **Replace** it with the following:

**B. Project Safety and Health Plan.** The Contractor shall perform all necessary planning, supervision, and training activities to ensure that all of the requirements of 29 CFR 1926 are fully met for all workers employed in the construction of the contract. The Contractor shall provide to the Department prior to the start of work satisfactory evidence that all current requirements of 29 CFR 1926 will be adequately addressed. As a minimum, the Contractor shall provide a written Project Safety and Health Plan which documents the Contractor's company policy relative to safety, and which identifies and addresses specific safety and health concerns to be encountered on the project. Before the work begins and periodically throughout the project, the Contractor's project supervision staff shall meet with the Engineer to review and discuss the status of safety issues on the project. An appropriate notice shall be posted on the contract site that the Project Safety and Health Plan is available for examination by any worker employed on the project. As a minimum this plan shall include the following items:

- Identification of project and company safety officers.
- Hazardous Materials Communications Plan.
- Employee Safety Training Program.
- Company safety policy.
- Procedures to address project safety and health concerns.
- Procedures to address distraught, emotionally disturbed persons and/or homeless persons.
- Procedures for compelling worker compliance with safety and health requirements.

Certain of these items may be submitted in the format of a Company Safety and Health Program, with the Project Safety and Health Plan limited to project-specific issues.

The Contractor shall ensure that each subcontractor employed on the project complies with this requirement. The Contractor shall provide to the Department a Project Safety and Health Plan covering all work to be done by the subcontractor prior to starting work. As an alternative, the Contractor may provide a certification that all activities performed by and workers employed by the subcontractor will be subject to the Contractor's Project Safety and Health Plan.

Submission of the required Project Safety and Health Plan by the Contractor and its acceptance by the Department shall not be construed to imply approval of any particular method or sequence for addressing safety and health concerns, or to relieve the Contractor from the responsibility to adequately protect the safety and health of all workers involved in the project as well as any members of the public who are affected by the project.

In accordance with NYS Labor law §220-h, all laborers, workers, and mechanics shall be certified prior to performing any work on the contract as having successfully completed a course in construction safety and health approved by the US Department of Labor's Occupational Safety and Health Administration (OSHA) that is at least ten hours in duration. The Contractor shall attach proof of completion to first certified payroll for initial workers, and to subsequent payrolls for new or additional workers. The Contractor shall clearly indicate on subsequent payrolls any workers not previously employed on that contract. If no proof of completion has been submitted for a worker listed on a certified payroll, the Engineer will alert the Contractor to this fact. If the Contractor cannot provide proof of completion and the worker continues to work, the Department will notify the Contractor in writing with a copy to the NYSDOL by e-mail at [PWAsk@labor.state.ny.us](mailto:PWAsk@labor.state.ny.us).

**USAGE OF CELL PHONES/SMARTPHONES/ENTERTAINMENT DEVICES**

Make the following changes to the Standard Specifications of May 1, 2008:

Page 114 **Insert** §107-05U. *Use of Personal Entertainment Devices and Portable Phones.*

**U. Use of Personal Entertainment Devices and Portable Phones.** The Contractor shall ensure that workers are able to perceive hazards, are not distracted from their tasks, and are not creating hazard(s) through the use of personal entertainment devices. The Contractor shall ensure that portable phones, two-way radios, and other communication devices are used by workers for performing work tasks only. Flaggers shall use portable phones, two-way radios, and other communication devices only to communicate with other flaggers, workers or supervisors regarding flagging operations. Equipment operators shall use portable phones, two-way radios or other communication devices while actively operating equipment only for communicating with workers performing directly related work tasks. Truck drivers shall use hands free technology for all calls while driving within work zones. Portable phones, two-way radios, and other communication devices shall be equipped with hands-free technology whenever practicable. Workers shall not use personal entertainment devices with earphones such as radios, iPods, MP3 players, media players, or other personal listening devices while working.

Page 579, **Delete** §619-3.02L.2, as modified and **Replace** it with the following:

**2. Flagger Equipment.** Flaggers shall wear orange protective helmets and traffic control apparel in accordance with §107-05A. *High Visibility Apparel.* Flaggers shall be appropriately dressed, including apparel that covers the legs, torso, and arms with sleeves a minimum of 100 mm long and appropriate footwear. Immodest or sloppy dress will not be permitted. Flaggers shall be equipped with an emergency air horn to alert workers of errant vehicles or other dangerous situations. Where flaggers are not within sight of each other, each flagger shall be equipped with a communication device, such as portable phone or two-way radio. The communication device shall only be used to communicate with other flaggers, other workers, or supervisor(s) regarding the flagging operations. Where the distance between flaggers is more than 1 km or where shown in the contract documents, the Contractor may use pilot cars to lead lines of vehicles through the work zone.

The standard signaling device for flagging operations, where one or more flaggers are controlling a single stream of traffic or two alternating streams of traffic in opposite directions, shall be STOP/SLOW signal paddles. Red signal flags may be used where display of the STOP and SLOW faces in opposite directions may be inappropriate or misleading.

**INSURANCE**

Make the following changes to the Standard Specifications dated May 4, 2006 / May 1, 2008:

**Delete** §107-06 and **Replace** it with the following:

**107-06 INSURANCE.** The Contractor shall procure, at its own sole cost and expense, and shall maintain in force at all times during the term of this contract including any extensions or renewals until Contract Final Acceptance, the policies of insurance covering all operations under the contract whether performed by it or its subcontractors as herein below set forth, written by companies authorized by the New York State Insurance Department to issue insurance in the State of New York and that have an A.M. Best Company rating of (A -) or better or approved by the Department. The Department may, at its sole discretion, permit the placement of policies with a non-authorized carrier or carriers upon request by the Contractor accompanied by the documentation required by 11 NYCRR §27.0 *et seq.*; provided that nothing herein shall be construed to require the Department to accept insurance placed with a non-authorized carrier under any circumstances. The Contractor shall deliver to the Department evidence of such policies as the Department deems necessary to verify that the required insurance is in effect.

**A. Conditions Applicable to Insurance.** All policies of insurance required by this agreement must meet the following requirements:

- 1. Coverage Types and Policy Limits.** The types of coverage and policy limits required from the Contractor are specified in Paragraph B *Insurance Requirements* below. General liability insurance shall apply separately on a per-job or per-project basis.
- 2. Policy Forms.** Except as may be otherwise specifically provided herein or agreed in writing by the Department, policies must be written on an **occurrence** basis. In the event that occurrence-based coverage is not commercially available, claims-made policy forms will be considered provided that, at minimum, it includes provisions that allow for (a) reporting circumstances or incidents that may give rise to future claims and (b) an extended reporting period of not less than three (3) years with respect to events that occurred but were not reported during the term of the policy.
- 3. Certificates of Insurance/Notices.** Contractor shall provide a Certificate or Certificates of Insurance, in a form satisfactory to the Commissioner, before commencing any work under this contract. Certificates or transmittal correspondence shall reference the NYSDOT Contract D Number. Certificates shall be mailed to the:

**Office of Contract Management**  
**New York State Department of Transportation**  
 50 Wolf Rd.  
 Albany, NY 12232

Unless otherwise agreed, policies shall be written so as to require that the policy will not be (i) canceled, (ii) materially changed or (iii) permitted to expire or lapse for any reason except upon thirty (30) days' prior written notice to the Department by Certified Mail, Return Receipt Requested at the address stated above. In addition, if required by the Department, the Contractor shall deliver to the Department within forty-five (45) days of such request a copy of any or all policies of insurance not previously provided, certified by the insurance carrier as true and complete. Certificates of Insurance shall:

- a. Be in the form provided by the Department (C218 or successor) unless the Department specifically approves a different form. The ACORD forms of Certificate of Insurance are not acceptable.
- b. Be signed by an authorized representative of the insurance carrier or producer and be acknowledged before a notary public.
- c. Disclose any deductible, self-insured retention, aggregate limit or any exclusion to the policy that materially changes the coverage required by the contract.

## INSURANCE

- d. Specify the Additional Insureds and Named Insureds as required herein.
- e. Refer to this Contract by number on the face of the certificate, and
- f. Expressly reference the inclusion of all required endorsements.

If at any time during the term of this contract, it shall come to the attention of the Department that required insurance is not in effect or that adequate proof of insurance has not been provided, the Department may, at its option:

- a. Direct the Contractor to suspend work and not re-enter the premises with no additional payment or extension of time due on account thereof, or
- b. May withhold further contract payments in accordance with Article 8 *No Payment Due to Contractor's Non-Compliance* of the contract agreement, or
- c. Treat such failure as a breach or default of the contract.

**4. Additional Insureds.** All insurance policies required by these specifications, except workers' compensation and professional liability shall be endorsed to provide coverage to "**The State of New York/New York State Department of Transportation, any municipality in which the work is being performed, any public benefit corporation, railroad, or public utility whose property or facilities are affected by the work, and any consultants working for or on the project, and their agents or employees**" with respect to any claim arising from the Contractor's Work under this contract or as a result of the Contractor's activities. The endorsement shall be effected by endorsement of the applicable policy using ISO form CG 20 10 11 85, CG 20 37 07 04, CG 20 33 07 98 when used in combination with CG 20 37 07 04, or CG 20 33 10 01 or a form(s) that provides equivalent coverage.

**5. Primary Coverage.** All insurance policies, excepting workers' compensation, shall provide that the required coverage shall be primary as to any other insurance that may be available to the Department for any claim arising from the Contractor's Work under this contract, or as a result of the Contractor's activities.

**6. Waiver of Subrogation.** As to every type and form of insurance coverage required from the Contractor, there shall be no right of subrogation against **the State of New York/New York State Department of Transportation, its agents or employees.** To the extent that any of Contractor's policies of insurance prohibit such a waiver of subrogation, Contractor shall secure the necessary permission to make this waiver.

**7. Policy Renewal/Expiration.** At least thirty (30) calendar days prior to the expiration of any policy required by this contract, evidence of renewal or replacement policies of insurance with terms no less favorable to the Department than the expiring policies shall be delivered to the Department in the manner required for service of notice in Paragraph A.3. *Certificates of Insurance/Notices* above.

**8. Self-Insured Retention/Deductibles.** Contractors utilizing self-insurance programs are required to provide a description of the program for Department approval. Collateralized deductible and self-insured retention programs administered by a third party may be approved. Except as may be specifically provided in the Contract Documents of a particular project, Contractor or third-party-administered insurance deductible shall be limited to the amount of the bid deposit or \$100,000.00, whichever is less. Security is not required if it is otherwise provided to an administrator for an approved risk management program. The Department will not accept a self-insured retention program without security being posted to assure payment of both the self-insured retention limit and the cost of adjusting claims. The Contractor shall be solely responsible for all claim expense and loss payments within any permitted deductible or self-

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insured retention. If the Contractor's deductible in a self-administered program exceeds the amount of the bid deposit, the Contractor shall furnish an irrevocable Letter of Credit as collateral to guarantee its obligations. Such Letter of Credit or other collateral as may be approved by Department must be issued by a guarantor or surety with an AM Best Company rating of (A -) or better. If, at any time during the term of this agreement, the Department, in its sole discretion, determines that the Contractor is not paying its deductible, it may require the Contractor to collateralize all or any part of the deductible or self-insured retention on any or all policies of insurance or, upon failure to promptly do so, the same may be withheld from payments due the Contractor.

**9. Waiver of Indemnities.** The Contractor waives any right of action it and/or its insurance carrier might have against the Department (including its employees, officers, commissioners, or agents) for any loss that is covered by a policy of insurance that is required by this contract. The Contractor waives any right of action it and/or its insurance carrier might have against the Department (including its employees, officers, commissioners, or agents) for any loss, whether or not such loss is insured.

**10. Subcontractor's Liability Insurance.** In the event that any portion of the work described in this contract is performed by an approved subcontractor, the insurance requirements of this Article shall be incorporated into the subcontract agreement. Subcontractor insurance requirements shall include the requirements for Workers' Compensation, Commercial General Liability, and, if applicable, Commercial Auto and/or Professional Liability. Excess or umbrella insurance is not required for subcontractors. Contractor shall require that Certificates of Insurance, meeting the requirements of the Department are provided to the Department documenting the insurance coverage for each and every subcontractor employed by them to do work under this contract.

**B. Insurance Requirements.** The types of insurance and minimum policy limits shall be as follows:

**1. Workers' Compensation and Disability Insurance.** As required by State Finance Law §142, the Contractor shall maintain in force workers' compensation insurance upon forms required by or acceptable to the Workers Compensation Board for all of Contractor's employees. Contractor shall also maintain disability insurance as required by the Disability Benefits Law of the State of New York.

**2. Commercial General Liability Insurance.** The Contractor shall maintain an occurrence form commercial general liability policy or policies insuring against liability arising from premises (including loss of use thereof), personal injury or death, advertising injury, liability insured under an insured contract (including the tort liability of another assumed in a business contract) occurring on or in any way related to the premises or occasioned by reason of the operations of Contractor. Such coverage shall be written on an ISO occurrence form (ISO Form CG 00 01 12 07 or a policy form providing equivalent coverage) in an amount of not less than \$1,000,000.00 per occurrence and not less than \$2,000,000.00 aggregate. Unless otherwise provided, the policy or policies of insurance providing the liability coverage shall include:

- a. Coverage for contractual liability assumed by the Contractor insured under an insured contract (including the tort liability of another assumed in a business contract).
- b. All insurance policies required by these specifications except workers' compensation and professional liability shall be endorsed to provide coverage to **"the State of New York/New York State Department of Transportation, any municipality in which the work is being performed, any public benefit corporation, railroad, or public utility whose property or facilities are affected by the work, or any consultant inspecting engineer or inspector working for or on the project, and their agents or employees"** using ISO form CG 20 10 11 85, CG 20 37 07 04, CG 20 33 07 98 when used in combination with CG 20 37 07 04, or CG 20 33 10 01 or a policy form or forms providing equivalent coverage.

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- c. Products-Completed Operations Coverage, as provided in the General Liability Policy, or in certain instances through ISO form CG 26 11 09 99 or suitable equivalent.
- d. Where contract work will be performed by unregistered off-road equipment, Contractor shall provide documentation of a blanket Pollution Liability policy, or an endorsement to cover short-term pollution events, ISO form CG 04 33 10 01 or equivalent.
- e. Coverage for claims for bodily injury asserted by an employee of an additional insured and any Employer Liability Exclusion which may otherwise operate to exclude such coverage shall be voided in this respect.
- f. Explosion, Collapse and Underground Hazards coverage (“XCU”) (*for contracts that call for the performance of excavating, underground work, and/or the use of blasting equipment*).

**3. Commercial Automobile Insurance including liability and required coverage for New York** (*applicable to any project where automobiles or other vehicles will be employed to complete the work*). In the event that automobiles are used in connection with Contractor’s business or operations with the Department, the Contractor shall maintain a commercial or other automobile policy or policies insuring against liability for bodily injury, death, or damage to property and other mandatory coverages, relating to the use, operation, loading or unloading of any of Contractor’s automobiles (including owned, hired and non-owned vehicles) on and around the project. This should be ISO form CA 00 01 10 01, CA 00 01 01 87 or a policy form providing equivalent coverage along with mandatory New York endorsements. Coverage shall be in an amount of not less than \$1,000,000.00 each accident.

**4. Umbrella or Excess Liability Insurance.** The Contractor shall maintain an occurrence form umbrella liability policy or policies insuring against liability arising from premises (including loss of use thereof), operations, independent Contractors, products-completed operations, personal injury and advertising injury, and liability insured under an insured contract (including the tort liability of another assumed in a business contract) occurring on or in any way related to the premises or occasioned by reason of the operations of Contractor or arising from automobile liability as described above. Such coverage shall be written on an ISO occurrence form CU 00 01 12 07 or a policy form providing equivalent coverage. In the event that umbrella coverage is unavailable, equivalent excess coverage may be substituted. The minimum required limits for the umbrella/excess coverage shall be sufficient to provide a total of not less than \$5,000,000.00 per occurrence/ aggregate.

**5. Special Protective and Highway Liability Policy.** The Contractor shall maintain, separate and apart from its umbrella policy, a policy issued to and covering the liability of the People of the State of New York, The State of New York, the Commissioner of Transportation, all employees of the Department of Transportation both officially and personally, any municipality in which the work is being performed, any public benefit corporation, railroad, or public utility whose property or facilities are affected by the work, or any consultant inspecting engineer or inspector working for or on the project, and their agents or employees, against damages that the insureds may be held legally liable to pay for property damage, personal injuries, or death that is caused by any occurrence that takes place within any location where work is to be or is being performed by Contractor, including at the location of any of the work. This should be ISO form CG 00 14 12 or a policy form providing equivalent coverage along with mandatory New York endorsements. Coverage shall be in an amount of not less than \$1,000,000.00 per occurrence and at least \$2,000,000.00 for each aggregate limit.

**6. Contractor’s Risks.** The Contractor shall be responsible for obtaining any insurance it deems necessary to cover its own risks, including without limitation: (a) business interruption, such as gross earnings, extra expense, or similar coverage, (b) personal property, and/or (c) automobile physical damage and/or theft. In no event shall the Department be liable for any damage to, or loss of, personal property, or

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damage to, or loss of, an automobile that is covered by a policy of insurance that is required by this agreement, even if such loss is caused by the negligence of the Department.

**7. Builders' Risks Policy.** *(applicable to projects that call for the construction of any "Structure" or building, including, but not limited to pump stations and in connection with such projects, only to the extent of the value associated with such construction).* The Contractor shall procure and maintain a Builder's Risk policy in a form such as ISO form CP 00 20 10 90 or a policy form providing equivalent coverage, covering the perils insured under and including the special causes of loss form, including collapse,. Subject to the allowances stated in Paragraph A.8. *Self-Insured Retention/Deductibles*, above, the deductible not to exceed the amount of the bid deposit or \$100,000.00, whichever is less, covering the total value of work performed and equipment, supplies and materials at the location of the Work as well as at any off-site storage locations. Policy shall cover the total value of structures and buildings, supplies and materials at the location of the Work as well as at any off-site storage locations. Sub-limits for loss caused by Flood and Earthquake are acceptable. The policy shall cover the cost of removing debris, including demolition as may be legally necessary by the operation of any law, ordinance or regulation, and for loss or damage to any owned, borrowed, leased or rented capital equipment, tools, including tools of their agents and employees, staging towers and forms, and property of Department held in their care, custody and/or control. Such policy shall name the Contractor as insured, and The People of the State of New York, and Subcontractors as additional insureds.

**8. Professional Liability/ Errors and Omissions.** *(applicable to professional services requiring the signature, stamp or certification of a licensed professional, including, without limitation, erection plans, demolition plans, containment plans, coffer dams, and temporary sheeting.)* The Contractor shall maintain at its own expense or shall require to be maintained, such insurance as is customary to compensate Department for any claims or losses that occur because of Contractor's errors, omissions malpractice or breach of professional obligations. Such policy or policies may be written on a claims-made form so long as coverage is maintained to be in effect to cover claims arising from the performance of services under this contract. Said coverage may be subject to a deductible or self-insured retention level of no more than \$250,000.00 subject to approval by Department, such approval not to be unreasonably withheld, except that it is also agreed that Department may withhold payment for services rendered under this contract in the event, and to the extent of any deductible in the event that a claim is asserted. Such coverage shall be written on a claims-made basis (or a policy form providing equivalent coverage) in an amount of no less than \$5,000,000.00 per claim and not less than \$5,000,000.00 in the aggregate.

**9. Railroad Protective Liability Insurance.** *(applicable to any Work Affecting Railroads as described in §105-09.)* The Contractor shall maintain at its own expense railroad protective liability policy of insurance in the name of the affected railroad and with limits of coverage as specified in the Special Notes on Railroad Insurance, or if no limits of coverage are specified, the limits shall be not less than \$5,000,000.00 combined Bodily Injury Liability and/or Property Damage for each occurrence with a \$10,000,000.00 Aggregate Limit applying separately to each annual period. Said policy shall be subject to the approval of the railroad and comply with 23 CFR 646 Subpart A.

**Delete** §107-09 and **Replace** it with the following:

**107-09 DAMAGE.** All damage, direct or indirect, of whatever nature resulting from the performance of the work or resulting to the work during its progress from whatever cause, including omissions and supervisory acts of the State, shall be borne and sustained by the Contractor, and all work shall be solely at its risk until it has been finally inspected and accepted by the State except that:

**A. Damage by Public Traffic.** Payment shall be made to the Contractor for repair or replacement of any permanent element of the highway which is completed to the stage of serving its intended function and is subsequently damaged by accident by public traffic. The Contractor must supply satisfactory evidence that such damage was caused by a public traffic accident and not by vandalism or by the Contractor's equipment.

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Satisfactory evidence shall generally be limited to: accident reports filed with the NYS Department of Motor Vehicles, police agencies or insurance companies; statements by reliable, unbiased eye witnesses; or identification of the vehicle involved in the accident. Physical evidence that the damage was caused by a motor vehicle (such as tire marks or broken headlight glass) will not be sufficient unless it can be shown that the damage was not caused by the Contractor's vehicles or by vandalism.

Work for which there is a bid item will be paid for at the unit price for that item. Work for which there is no bid item will be paid for at an agreed price or by means of force account. Payment will not be made for repair or replacement in any way connected with untimely failure of any portion of the highway under public traffic, and the determination regarding this matter shall be made by the Regional Director, taking into consideration the normal life and the amount of normal wear of the element involved. This provision does not relieve the Contractor of the responsibility of maintenance and protection of traffic for the contract or the responsibility of having wholly complete and acceptable work at the time of final inspection and contract acceptance. Payment for such damage shall be made only after the Contractor has demonstrated to the satisfaction of the Regional Director that it had made every reasonable effort to collect the costs from the person or persons responsible for damage.

The Contractor shall not be responsible for damages resulting from faulty designs as shown in the contract documents nor damages resulting from willful acts of Department officials or employees and nothing in this paragraph or contract shall create or give to third parties any claim or right of action against the Contractor or State beyond such as may legally exist irrespective of this paragraph or contract.

**B. Damage by Occurrence.** The term "Occurrence" shall include only those floods, droughts, tidal waves, fires, hurricanes, earthquakes, windstorms or other storms, landslides or other catastrophes when such occurrences or conditions and effects have been proclaimed a disaster or state of emergency by the President of the United States, or the Governor of New York State, or the Federal Highway Administrator, or the chief executive of a county or city.

If damage to the work in progress is caused by an Occurrence, and to the extent that such damage has been determined by the Department to be beyond that which may be anticipated from heavy storms, and also to the extent that such damage is not reimbursable by insurance carried by the Contractor, the Contractor may apply to the State to pay or participate in the cost of repairing the damage to the work, unless such damage is caused by the Contractor's action or inaction or the Contractor's means and methods of construction.

The Contractor's written request for the State to pay or participate in the cost of rebuilding, repairing, restoring or otherwise remedying damage to the work caused by an occurrence shall be submitted to and approved by the Commissioner before performing any work other than emergency work, including emergency work necessary to provide for passage of public traffic.

At the sole discretion of the Department, the contract may be terminated and the Contractor relieved of further obligation to perform the work.

**C. Obligation to Indemnify by the Contractor.** To the fullest extent permitted by law, the Contractor shall indemnify and save harmless the State, any municipality in which the work is being performed, and/or any public benefit corporation, railroad, or public utility whose property or facilities are affected by the work, from suits, claims, actions, damages and costs, of every name and description arising from the work under its contract during its prosecution and until the final acceptance thereof. The Contractor and any assigns, heirs, or successors in interest shall also indemnify and save harmless, to the fullest extent permitted by law, any consultant working for or on the project from suits, claims, actions, damages and costs involving personal injury and property damage arising from the Contractor's work under the contract during its prosecution and until the final acceptance thereof. The State may retain such monies from the amount due the Contractor as may be necessary to satisfy any claim for damages recovered against the State, any municipality in which the work is being performed, and/or any public benefit corporation, railroad or public utility whose property or facilities are affected by the work, or consultants working for the State on or for the project. The Contractor's obligation under this paragraph shall not be deemed waived by the failure of the State to retain the whole or any part of such monies due the Contractor, nor where such suit, action, damages and/or costs have not been resolved or determined prior to release of any monies to the Contractor under the contract, nor shall such obligation be deemed limited or discharged by the enumeration or procurement of any insurance for liability for damages



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imposed by law upon the Contractor, Subcontractor or the State, any municipality in which the work is being performed, and/or any public benefit corporation, railroad or public utility whose property or facilities are affected by the work, or any consultants working for the State on or for the project.

The Contractor has the obligation, at its own expense, for the defense of any action or proceeding which may be brought against the parties specified in paragraph §107-09 C. *Obligation to Indemnify by the Contractor*. This obligation shall include the cost of attorneys' fees, disbursements, costs and other expenses incurred in connection with such action or proceeding.

Such obligation does not extend to those suits, actions, damages and costs of every name that arise out of the sole negligence of the State, any municipality in which the work is being performed, and/or any public benefit corporation, railroad or public utility whose property or facilities are affected by the contract work, or any consultants working for the State, their agents or employees, relative to the construction, alteration, or repair or maintenance of a building, highway or structure and appurtenances and appliances thereof including moving, demolition and excavating connected therewith.

**D. Prompt Response to Claims by the Public.** The Contractor's responsibility for the contract site applies to the full limits of the contract regardless of the extent or nature of contract work at a particular location. This obligation begins when the contract is awarded and continues until contract final acceptance. The Contractor shall promptly address all written damage claims of the public and, if not addressed directly, claims shall be promptly turned over to the Contractor's insurance carrier without prejudicing the validity of the claim. There should be an interval of no more than ten (10) work days between receipt of a written claim by the Contractor and receipt by the carrier. The Contractor and/or the Insurance Carrier are expected to investigate, determine and adjust such claims promptly and fairly with notice to the Engineer. The Engineer will monitor claims by the public. If the Contractor fails to provide satisfactory resolution through a timely claims adjustment process or denies the claim without proper cause and justification, the Department may invoke Article 8 *No Payment Due to the Contractor's Non-Compliance* of the contract or utilize other remedies.

**SECTION 107-13 PERMISSION TO PERFORM CONTRACT WORK ON PRIVATE LAND**

Make the following changes to the Standard Specifications of May 1, 2008:

**Under Section 107 Add:****SECTION 107-13 PERMISSION TO PERFORM CONTRACT WORK ON PRIVATE LAND**

Use of Adjacent Land for Contract Work: The contractor shall not enter upon any parcel until the proper rights of entry have been obtained as stated in §105-15. Releases may be used for contract work outside of the existing right-of-way that minimizes the adverse impacts of the project on a property owner and is not essential for the construction of the project. Work performed under a release may include: plantings; unsound and hazardous tree removal; minor grading; and reconnection of private driveways, walkways and utilities.

The Department will secure all releases prior to the contractor performing contract work on private parcels. The contractor may not secure releases for contract work. If a release is not obtained, the contractor shall not enter upon the parcel and the work will be removed from the contract.

Any damage resulting from the contractor's work on private property shall be satisfactorily repaired or items replaced at the contractor's expense.

The engineer will coordinate with the property owner to determine the disposition of removed trees in accordance with state and federal requirements and guidelines, which may require chipping or other disposal in accordance with §201.

Use of Adjacent Land for Contractor Staging, Access and Office Space: A release letter is not used for property rights acquired by the contractor (e.g., rental of property for equipment staging, office space or material storage). The contractor is responsible to the landowner and the contractor shall provide the Department with a copy of the lease, rental agreement, deed, contract to perform private work in trade for property rights, etc. prior to entering private land.

**PROMPT PAYMENTS BY THE CONTRACTOR**

Make the following changes to the Standard Specification of May 4, 2006 / May 1, 2008:

**Delete** §109-07 *Prompt Payments by the Contractor* and **Replace** it with the following:

**109-07 PROMPT PAYMENTS BY THE CONTRACTOR.** In accordance with Section 139-f(2) of the State Finance Law, the Contractor shall pay each Subcontractor and materialman for the value of work performed pursuant to contract no later than seven (7) calendar days from the receipt of each payment the Contractor receives from the State. Payment by the Contractor to Subcontractors or materialmen shall reflect the quantities or percentage of work completed by the Subcontractor or materials furnished by the materialmen, and paid by the State; and such payment shall be based upon the actual conditions of the subcontract or purchase order. The Contractor shall not hold any retainage, but may deduct an amount necessary to satisfy any claims, liens or judgments against a Subcontractor or materialman which have not been fully discharged.

The Contractor shall maintain an accounting system acceptable to the Department to track payments made by the State to the Contractor and payments made by the Contractor to each Subcontractor, Manufacturer, Fabricator or Material Supplier by item and by date. The Contractor shall enter payment data into the current Department approved civil rights reporting system in accordance with §105-21 *Civil Rights Monitoring and Reporting*, with any exceptions noted and explained.

**EXCAVATION AND EMBANKMENT**

Make the following changes to the Standard Specifications dated May 1, 2008:

Page 153, **Delete** the first paragraph of §202-3.09 and **Replace** it with the following:

The appropriate construction details specified for Section 203 *Excavation and Embankment*, as stated in §203-3.01 *General* through and including §203-3.02 *Unclassified Excavation and Disposal* shall apply. The excavation shall be dewatered and kept free from water, snow and ice when necessary.

Page 186, **Delete** “§203-1.01” in the first paragraph of §206-1.01 and **Replace** it with “Section 203, *Definitions*”.

Page 187, **Delete** the first paragraph of §206-3.01 entirely and **Replace** it with the following:

The appropriate construction details specified for “Excavation and Embankment” in §203-3.01 *General* through and including §203-3.03 *Embankment In Place*, and §203-3.06 *Select Granular Fill* and §203-3.14 *Select Structural Fill* shall apply to the work specified in this section.

Page 187, **Delete** the first paragraph of §206-3.03 entirely and **Replace** it with the following:

The provisions of §203-3.01D *Suitable Materials* and/or §203-3.01E *Unsuitable Materials* shall apply to all material excavated under this section which is not used as backfill.

Page 195, **Delete** “§203-3.08, Disposal of Surplus Excavated Materials” in the second bullet of the third paragraph of §209-3.02 and **Replace** it with “Section 203, *Disposal of Surplus Excavated Material*”.

Page 205, **Delete** “§203-3.16, Borrow” in the first paragraph of §302-2.03 and **Replace** it with “Section 203, *Borrow*”.

Page 212, **Delete** “§203-3.12, Compaction” in the first paragraph of §304-3.03 and **Replace** it with “Section 203, *Compaction*”.

Page 214, **Delete** “§203-3.12, Compaction” in the first paragraph of §307-3.01 D and **Replace** it with “Section 203, *Compaction*”.

Page 215, **Delete** “§203-3.12, Compaction” in the first paragraph of §307-3.10 and **Replace** it with “Section 203, *Compaction*”.

Page 277, **Delete** each use of “§203-3.12, Compaction” in the first paragraph of §411-3.03 and **Replace** it with “Section 203, *Compaction*”.

As modified by EI 08-037, **Delete** “§203-2.02 C Select Granular Fill and Select Structure Fill” in the first paragraph of §554-2.02 A 2 b and **Replace** it with “Section 203, *Select Granular Fill*”.

As modified by EI 08-037, **Delete** “§203-2.02 C Select Granular Fill and Select Structure Fill” in the first paragraph of §554-2.03 B 1 and **Replace** it with “Section 203, *Select Structural Fill*”.

As modified by EI 08-037, **Delete** “§203-2.02 C Select Granular Fill and Select Structure Fill” in the second paragraph of §554-2.03 C 2 and **Replace** it with “Section 203, *Select Structural Fill*”.

As modified by EI 08-037, **Delete** “§203-3.12 B.6. *Compaction Equipment for Confined Areas*” in the first paragraph of §554-3.01 D 3 c and **Replace** it with “Section 203, *Compaction Equipment for Confined Areas*”.

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As modified by EI 08-037, **Delete** “§203-3.12 B.6. *Compaction Equipment for Confined Areas*” in the first paragraph of §554-3.02 D 4 and **Replace** it with “Section 203, *Compaction Equipment for Confined Areas*”.

As modified by EI 08-037, **Delete** “§203-3.12 *Compaction*” in the first paragraph of §554-3.02 F 5 and **Replace** it with “Section 203, *Compaction*”.

As modified by EI 08-037, **Delete** “§203-3.12 *Compaction*” in the first paragraph of §554-3.03 C 4 and **Replace** it with “Section 203, *Compaction*”.

Page 482, **Delete** “§203-3.15, “Fill and Backfill at Structures, Culverts, Pipes, Conduits and Direct Burial Cables”” in the second paragraph of §597-3.02 G and **Replace** it with “Section 203, *Select Structural Fill*.”

Page 489, **Delete** “§203-3.15, Fill and Backfill at Structures, Culverts, Pipes, Conduits and Direct Burial Cables” in the first paragraph of §603-3.03 and **Replace** it with “Section 203, *Select Granular Fill*.”

Page 497, **Delete** “§203-3.15, Fill and Backfill at Structures, Culverts, Pipes, Conduits and Direct Burial Cables” in the first paragraph of §604-3.11 and **Replace** it with “Section 203, *Select Granular Fill*.”

Page 506, **Delete** “§203-3.15, Fill and Backfill at Structures, Culverts, Pipes, Conduits and Direct Burial Cables” in the fourth paragraph of §606-3.01 D and **Replace** it with “Section 203, *Select Granular Fill*.”

Page 507, **Delete** “§203-3.15” in the first paragraph of §606-3.01 E and **Replace** it with “Section 203, *Select Granular Fill*.”

Page 604, **Delete** “§203-3.12, *Compaction*” in the first paragraph of §620-3.01 and **Replace** it with “Section 203, *Compaction*”.

As modified by EI 08-020, **Delete** the first paragraph of §632-2.02 and **Replace** it with the following:

Backfill material shall conform to the material requirements as specified in Section 203, *Select Structural Fill*.

As modified by EI 08-020, **Delete** the first paragraph of §632-2.03 and **Replace** it with the following:

Unit infill material shall conform to the material requirements as specified in Section 203, *Select Structural Fill*.

As modified by EI 08-020, **Delete** “§203-3.15, Fill and Backfill at Structures, Culverts, Pipes, Conduits and Direct Burial Cables” in the second paragraph of §632-3.02 E and **Replace** it with “Section 203, *Select Structural Fill*.”

Page 648, **Delete** “§203-3.08, Disposal of Surplus Excavated Materials” in the second paragraph of §644-3.04 and **Replace** it with “Section 203, *Disposal of Surplus Excavated Material*”.

Page 648, **Delete** “§203-3.15, Fill and Backfill at Structures, Culverts, Pipes, Conduits and Direct Burial Cables” in the third paragraph of §644-3.04 and **Replace** it with “Section 203, *Select Structural Fill*.”

Page 694, **Delete** “§203-3.15, Fill and Backfill at Structures, Culverts, Pipes, Conduits and Direct Burial Cables” in the first paragraph of §659-3.04 and **Replace** it with “Section 203, *Select Granular Fill*.”

Page 695, **Delete** “§203-3.15, Fill and Backfill at Structures, Culverts, Pipes, Conduits and Direct Burial Cables” in the first paragraph of §660-3.04 and **Replace** it with “Section 203, *Select Granular Fill*.”

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Page 695, **Delete** “§203-3.15, Fill and Backfill at Structures, Culverts, Pipes, Conduits and Direct Burial Cables” in the first paragraph of §661-3.04 and **Replace** it with “Section 203, *Select Granular Fill*.”

Page 696, **Delete** “§203-3.15, Fill and Backfill at Structures, Culverts, Pipes, Conduits and Direct Burial Cables” in the first paragraph of §662-3.04 and **Replace** it with “Section 203, *Select Granular Fill*.”

Page 698, **Delete** “§203-3.15, Fill and Backfill at Structures, Culverts, Pipes, Conduits and Direct Burial Cables” in the second paragraph of §663-3.04 and **Replace** it with “Section 203, *Select Granular Fill*.”

Page 706, **Delete** “§203-3.15, Fill and Backfill at Structures, Culverts, Pipes, Conduits and Direct Burial Cables” in the first paragraph of §664-3.04 and **Replace** it with “Section 203, *Select Granular Fill*.”

Page 709, **Delete** “§203-3.12, Compaction” in the first paragraph of §667-3.03 and **Replace** it with “Section 203, *Compaction*”.

Page 711, **Delete** “§203-3.08, Disposal of Surplus Excavated Materials” in the fourth paragraph of §670-3.03 and **Replace** it with “Section 203, *Disposal of Surplus Excavated Material*”.

Page 711, **Delete** “§203-3.15, Fill and Backfill at Structures, Culverts, Pipes, Conduits and Direct Burial Cables” in the fourth paragraph of §670-3.03 and **Replace** it with “Section 203, *Select Granular Fill*.”

Page 712, **Delete** the second sentence in the Method B of the sixth paragraph of §670-3.04 and **Replace** it with the following:

The clear area shall be backfilled with Select Granular Fill in accordance with §203-2.06 *Select Granular Fill*, and compacted in accordance with §203-3.06 *Select Granular Fill*.

Page 713, **Delete** “§203-3.15, Fill and Backfill at Structures, Culverts, Pipes, Conduits and Direct Burial Cables” in the second paragraph of §670-3.07 and **Replace** it with “Section 203, *Select Granular Fill*.”

Page 714, **Delete** “§203-3.15, Fill and Backfill at Structures, Culverts, Pipes, Conduits and Direct Burial Cables” in the sixth paragraph of §670-3.08 and **Replace** it with “Section 203, *Select Granular Fill*.”

Page 723, **Delete** “§203-3.08, Disposal of Surplus Excavated Materials” in the second paragraph of §680-3.09 and **Replace** it with “Section 203, *Disposal of Surplus Excavated Material*”.

Page 723, **Delete** “§203-3.15, Fill and Backfill at Structures, Culverts, Pipes, Conduits and Direct Burial Cables” in the third paragraph of §680-3.09 and **Replace** it with “Section 203, *Select Granular Fill*.”

Page 725, **Delete** “§203-3.15, Fill and Backfill at Structures, Culverts, Pipes, Conduits and Direct Burial Cables” in the first paragraph of §680-3.13 and **Replace** it with “Section 203, *Select Granular Fill*.”

Page 156-176, **Delete** SECTION 203 entirely and **Replace** it with the following:

### SECTION 203 – EXCAVATION AND EMBANKMENT

**203-1 DESCRIPTION.** This work shall consist of excavation, disposal, placement and compaction of all materials that are not provided for under another section of these Specifications, and shall be executed in conformance with payment lines, grades, thicknesses and typical sections specified in the contract documents.

#### 203-1.01 Definitions.

**A. Unclassified Excavation.** Unclassified excavation shall consist of the excavation and disposal of all

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materials, of any description, encountered in the course of construction, unless otherwise specified in the contract. Estimated limits and descriptions of subsurface deposits and formations which may be shown in the contract documents are supplied as a part of Base Line Data.

**B. Embankment.** The embankment is the portion of a fill section situated between the embankment foundation and the subgrade surface, excluding any material placed under another section of these specifications.

**C. Embankment Foundation.** The embankment foundation is the surface upon which an embankment is constructed after all work required under §203-3.03A. *Embankment Foundation* has been completed.

**D. Subgrade Surface.** The subgrade surface is the surface of the road section upon which the select materials and/or subbase are placed.

**E. Subgrade Area.** The subgrade area is that portion of an embankment situated above either of the following, but excluding any material placed under another section of these specifications.

1. A line located 2 ft. below the subgrade surface and extended to the intersection with the embankment side slopes, or

2. The embankment foundation, whichever is higher.

The material and compaction requirements for the subgrade area in embankments are found in §203-2.01A. *Subgrade Area Material* and §203-3.03C. *Compaction*, respectively.

In cut sections, the subgrade area is not defined except where undercut and backfill with a select material item is specified or ordered: in such cases, the payment lines for undercut work shall define the subgrade area.

**F. Embankment Side Slope Area.** The embankment side slope areas are those cross-sectional areas of an embankment situated outside of lines projected downward and outward on a one on one slope from the edges of the subgrade surface to their intersection with the embankment foundation, but excluding any portion lying within a subgrade area.

**G. Topsoil.** See Section 613 *Topsoil*.

**H. Suitable Material.** A material whose composition is satisfactory for use in embankment construction is a suitable material. The moisture content of the material has no bearing upon such designation. In general, any mineral (inorganic) soil, blasted or broken rock and similar materials of natural or man made (i.e. recycled) origin, including mixtures thereof, are considered suitable materials. Determinations of whether a specific natural material is a suitable material shall be made by the Engineer on the above basis.

Recycled materials that the Department has evaluated and approved for general use shall be considered to be suitable material for embankment construction subject to the conditions for use as determined by the Department. The Regional Geotechnical Engineer and Geotechnical Engineering Bureau are available to provide guidance on the use of such materials. In general, the use of recycled materials must be also sanctioned by the Department of Environmental Conservation, usually in the form of a Beneficial Use Determination (BUD).

Glass from recycling facilities meeting the requirements of §733-05 *Glass Backfill* shall be considered suitable material for embankment construction.

Reclaimed Asphalt Pavement (RAP), and Recycled Portland Cement Concrete Aggregate (RCA) shall be considered suitable materials for embankment construction, subject to the following conditions for use:  
RAP - The Contractor shall provide and place RAP conforming to the requirements of §733-06 *Reclaimed Asphalt Pavement for Earthwork and Subbase*.

RCA-The Contractor shall provide and place RCA conforming to the requirements of §733-07 *Recycled Portland Cement Concrete Aggregate*.

Pieces of broken up concrete pavement from on-site pavement removal or in-place recycling (i.e. rubblizing, crack and seat, break and seat, etc.) may be used in embankment construction. Refer to §203-3.03A. *Embankment Foundation* and §203-3.03B. *Embankments*.

## EXCAVATION AND EMBANKMENT

**I. Unsuitable Material.** Any material containing vegetable or organic matter, such as muck, peat, organic silt, topsoil or sod, or other material that is not satisfactory for use in embankment construction under §203-1.01H. *Suitable Material* is designated as an unsuitable material. Certain man made deposits of industrial waste, toxic or contaminated materials, sludge, landfill or other material may also be determined to be unsuitable materials, based on an evaluation by the Department's Geotechnical Engineering Bureau and Office of Environment, and the Department of Environmental Conservation.

**J. Borrow.** Borrow is material required for earthwork construction in excess of the quantity of suitable material available from the required grading, cuts and excavations. Borrow may be necessary even though not shown in the contract documents.

**K. Embankment Construction Control Devices.** Embankment construction control devices allow real-time observations of embankment construction to assess the actual performance of the embankment compared to that envisioned in the design phase. Settlement and pore water pressure are common measures of embankment performance. Techniques for monitoring settlement include a settlement rod or a surface settlement gauge. A settlement rod is an optical survey technique to monitor settlement of the embankment surface. The settlement rod(s) establish monitoring point(s) in relation to a reliable bench mark.

A surface settlement gauge is an optical survey technique to monitor settlement of the existing ground surface, below the embankment installation. The surface settlement gauge is installed prior to placing the embankment and extended upwards through the fill.

Pore water pressure monitoring may be used to determine the effective overburden diagrams (the basis of all geotechnical analyses), monitoring consolidation progress of embankments constructed over soft soils, evaluating seepage in natural slopes or earth dams (slope stability), checking the effectiveness of subsurface drainage facilities, or monitoring water well tests.

A piezometer is an instrument which provides measurements of pore water pressure at the elevation of the installed sensor. Pore pressure data is needed in a foundation soil to assess the excess pore water pressure and hence the undrained strength of the soil. Piezometers are used at various depths within cohesive foundation soils. Some piezometers are used in granular foundation soils to assess their drainage behavior.

**L. Proof Rolling.** Proof rolling consists of applying test loads over the subgrade surface by means of a heavy pneumatic-tired roller of specified design, to locate and permit timely correction of deficiencies likely to adversely affect performance of the pavement structure.

**M. Select Granular Fill – Slope Protection.** Select granular fill – slope protection is a material used to protect the grade of a slope from erosion and sloughing from runoff and groundwater seepage. Seepage is the slow movement of water through small openings and spaces in the surface of unsaturated soil into or out of a body of surface or subsurface water. Sloughing is a shallow surface failure caused by erosive removal of supporting material.

Select granular fill – slope protection is highly permeable while also providing sufficient frictional resistance to resist seepage forces and remain in place.

**N. Applying Water.** Under this work, the Contractor shall furnish and apply water for dust control. Moisture control for compaction purposes is the Contractor's responsibility. Water shall not be applied in inclement weather or when the temperature is 32° F or less.

**O. Modifying Cut Slopes and Other Means of Obtaining Borrow.** The Regional Director may approve the modification of cut slopes and other means of obtaining material, which is not part of the contract, so long as provisions are made to prevent unsafe conditions, damage, and nuisances to property, wildlife areas, and haul routes within and outside the contract limits. Such approval may be granted only after review of a written proposal by the Contractor showing the final deposition of the material, the haul route, hauling hours, and provisions necessary to comply with the above. Should unanticipated conditions arise resulting in any unsatisfactory situation, the Engineer shall immediately rescind the approval pending satisfactory correction.



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The following procedure shall apply to areas within the R.O.W. limits which are not designated as available sources of borrow by a Special Note in the contract proposal where the Contractor requests and is granted permission to modify slopes to obtain material for use on State contract work only. The Contractor will be required to reimburse the State with a rebate for the material obtained in these areas. Permission will not be granted to excavate material beyond the design slopes if it is to be used on other than State contract work.

The rebate to be obtained from the Contractor for this material is comprised of 1) A royalty based on the actual value of the excavated material, and 2) A credit for the difference in the Contractor's handling costs if these handling costs have been reduced. The royalty which is to be obtained for the excavated material shall be appropriate for the item for which it is to be utilized and shall be comparable to the current price being paid to purchase similar material in the area.

If the Contractor's handling costs associated with obtaining material from within the R.O.W. limits are greater than those for obtaining material from other acceptable sources, these additional handling costs must be borne by the Contractor. The royalty shall not be reduced to offset any increased handling costs incurred by the Contractor.

If the Contractor's handling costs associated with obtaining materials from within the R.O.W. limits are less than those for obtaining material from other acceptable sources, the differences shall be reimbursed to the State as a credit in addition to the royalty.

The difference in the Contractor's handling cost shall be determined by an analysis based on a comparison of haul lengths, hauling equipment, hauling operation, use of haul roads or public highways, preparation and restoration of the borrow areas, and any other variables involved.

Prior to modifying rock cut slopes, the Geotechnical Engineering Bureau must be consulted. If rock cut slopes are flattened sufficiently to eliminate the need for presplitting, an additional rebate will be necessary.

All special requirements to be fulfilled by the Contractor, at the Contractor's own expense, shall be clearly stated in the agreement. The foregoing requirement of receiving a rebate from the Contractor for material obtained by modification of slopes shall apply only to locations not designated in the Contract Documents.

### 203-2 MATERIALS

**203-2.01 General.** The requirements for select materials and subgrade area materials are described below. All processing operations including washing, removal of oversize material, blending, or crushing shall be completed at the source of the material. The procedure for acceptance or rejection of these materials shall be in conformance with the procedures contained in the geotechnical control procedure "*Procedure for the Control and Quality Assurance of Granular Materials*".

**A. Subgrade Area Material.** Subgrade area material shall consist of any suitable material having no particles greater than 6 in. in maximum dimension, unless Select Granular Subgrade with the well graded rock option is used. In that case, refer to §733-13 *Select Granular Subgrade*. If concrete is used, any exposed mesh or rebar shall not exceed 1 in. in length. RAP is also permitted.

**B. Glass Backfill.** Provide backfill material meeting the requirements of §733-05 *Glass Backfill*.

**C. RAP.** Provide backfill material meeting the requirements of §733-06 *Reclaimed Asphalt Pavement for Earthwork and Subbase*.

**D. RCA.** Provide backfill material meeting the requirements of §733-07 *Recycled Portland Cement Concrete Aggregate*.

**E. Miscellaneous.** Necessary fill material for cleaning, grading and shaping the existing roadside section shall conform to the requirements of §203-2.01A, *Subgrade Area Material*.

**203-2.02 Unclassified Excavation and Disposal.** None Specified.

**203-2.03 Embankment In Place.** Provide backfill material meeting the requirements of §733-08 *Embankment*

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*In Place.*

**203-2.04 Select Borrow.** Provide backfill material meeting the requirements of §733-09 *Select Borrow*.

**203-2.05 Select Fill.** Provide backfill material meeting the requirements of §733-10 *Select Fill*.

**203-2.06 Select Granular Fill.** Provide backfill material meeting the requirements of §733-11 *Select Granular Fill*.

**203-2.07 Select Granular Fill Slope Protection.** Provide backfill material meeting the requirements of §733-12 *Select Granular Fill Slope Protection*.

**203-2.08 Surface Settlement Gauges.** Provide materials for the embankment construction control device surface settlement gauge meeting the requirements of §733-17 *Surface Settlement Gauge*.

**203-2.09 Settlement Rods.** Provide materials for the embankment construction control device settlement rod meeting the requirements of §733-18 *Settlement Rod*.

**203-2.10 Piezometers.** Provide materials for the piezometer installation meeting the requirements of §732-11 *Open Well Piezometer*.

**203-2.11 Applying Water.** Water used for dust control purposes may be obtained from any source.

**203-2.12 Select Granular Subgrade.** Provide backfill material meeting the requirements of §733-13 *Select Granular Subgrade*.

**203-2.13 Select Structural Fill.** Provide backfill material meeting the requirements of §733-14 *Select Structural Fill*.

**203-2.14 Sand Backfill.** Provide backfill material meeting the requirements of §733-15 *Sand Backfill*.

### 203-3 CONSTRUCTION DETAILS

**203-3.01 General.** The Contractor shall remove all soil, rock, and other material, and utilize or dispose of these materials as required by the contract documents. All excavation and embankment work shall be executed to payment lines shown in the contract documents.

All graded earth surfaces outside the roadway limits shall be smoothed and trimmed in reasonably close conformity (6± in.) of true grade. After trimming, the area shall be left in a compact and satisfactory condition, free of large stones or other objectionable materials, as determined by the Engineer.

Earthwork construction operations requiring compaction shall not be performed from November 1<sup>st</sup> thru April 1<sup>st</sup> except with a Winter Earthwork submittal subject to the provision of this Section and approved by the Regional Director or his designated representative. Winter Earthwork will be subject to the following restrictions:

- Transitioning from the normal construction season to the exempt winter earthwork months between November 1<sup>st</sup> and April 1<sup>st</sup>, the use of standard earthwork materials may be permitted only under the conditions where the air temperature, ground temperature and material temperature are all above 32° F at the time of placement. Modifications to compaction procedures, including but not limited to the use of thinner lifts, may be required when the temperatures are above 32° F but below 40° F at the time of placement.
- Between November 1<sup>st</sup> and April 1<sup>st</sup>, if the air temperature, ground temperature, or material temperature is at or below 32° F at the time of placement, earthwork may only proceed using material that meets the requirements of §733-16 *Winter Earthwork*.

In all work incorporated into the final product, the Contractor shall not place material that is frozen, or place fill material on frozen ground regardless of the date.

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**A. Winter Earthwork Submittal.** For Contractors choosing to proceed with earthwork compaction operations between November 1<sup>st</sup> thru April 1<sup>st</sup>, provide the Engineer with a Winter Earthwork submittal, with a copy to the Regional Geotechnical Engineer, outlining the modifications to the materials and methods including the following:

**1. Material Requirements.** The material meets the requirements of §733-16 *Winter Earthwork*. Provide information on material composition and source substitute, if proposed.

**2. Material Placement.** Provide information on the proposed methods for controlling the weather effects on the material and existing ground conditions (i.e. insulation, enclosures, canvas and framework). Devise a plan to be outlined in the Winter Earthwork Submittal such that all snow, ice, and frozen material shall be removed from the surface of the ground on which embankment or backfill material is to be placed, and from the surface under construction before succeeding lifts are added.

**3. Transition Period.** Provide acknowledgement of a transition period allowing the use of standard earthwork materials between November 1<sup>st</sup> and April 1<sup>st</sup> only under conditions where the air temperature, ground temperature and material temperature are all above 32° F at the time of placement. Acknowledge the transition period ends either when the air temperature, ground temperature or material temperature is at or below 32° F at the time of placement.

Proceed with Winter Earthwork only after receiving written approval by the Regional Director or his designated representative subject to the provisions of this Section.

**B. Scheduling of Work to Minimize Soil Erosion and Water Pollution.** The Contractor shall ensure effective and continuous soil erosion and sediment control throughout the construction period. The Contractor shall prepare and submit for approval, plans and schedules for all excavation, stripping, embankment, fill and grading operations. Such plans and schedules shall include but are not limited to temporary and permanent erosion control measures specified in Section 209 *Soil Erosion and Sediment Control*, Section 610 *Turf and Wildflower Establishment* and Section 612 *Sodding*.

**C. Drainage and Grading.** The Contractor shall provide and maintain slopes, crowns and ditches on all excavation and embankments to ensure satisfactory surface drainage at all times. Ditches and other drainage facilities necessary to remove ponded water shall be constructed as soon as practical to have the work area dry during the progression of work. All existing culverts and drainage systems shall be maintained in satisfactory operating condition throughout the course of the work. If it is necessary to interrupt existing surface drainage, sewers or under-drainage, then temporary drainage facilities shall be provided until the permanent drainage work is complete. Top-of-slope interceptor ditches, where shown on the contract documents, shall be completed before adjacent excavation operations are begun. In earth cuts, the Contractor shall progress excavation operations in such a manner that the portion of the cut immediately adjacent to the design slope is at least 5 ft. lower than the general level of the cut at all times until the lower payment line is reached.

The construction of these temporary drainage facilities shall be considered as incidental to the construction of the project and no additional payment will be allowed.

Any portion of an embankment or subgrade which has been damaged by the Contractor's equipment during the course of construction, shall be repaired and re-compacted by the Contractor at no additional cost to the State.

Where seepage causes instability of slopes, excavation and backfill or other corrective measures shall be performed as ordered by the Engineer and paid for under the appropriate item. Excavation for the installation of slope protection may be necessary at any time and location throughout the duration of the contract and may not necessarily coincide with the Contractor's performance of the general excavation work.

**D. Suitable Materials.** Moisture content has no bearing on the suitability of material to be used for embankment construction, however, the moisture content of a material may be such that its use will require manipulation. It is the Contractor's responsibility to determine the economics of using, or disposing of and replacing, such materials. Material determined by the Contractor to be un-economical for use may be disposed of as specified under §203-3.02B. *Disposal of Surplus Excavated Materials* and replaced with other material at no additional cost to the State.

When a contract includes the item "Unclassified Excavation and Disposal", all excavated suitable

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materials, including the excavation performed under “Structure Excavation” and “Trench and Culvert Excavation,” shall become the Contractor's property for disposal or use under another item of these specifications.

**E. Unsuitable Materials.** All excavated unsuitable materials shall be the Contractor's property for disposal as surplus materials under the provisions of §203-3.02B. *Disposal of Surplus Excavated Materials.*

**F. Borrow.** The management of a borrow source and the acceptability of all borrow material shall be subject to the approval of the Engineer at all times. The Contractor shall notify the Engineer at least ten (10) work days in advance of opening any borrow area, and request approval of the source under the pay item involved. Test pits required by the Engineer to evaluate the acceptability and limits of the source, shall be provided by the Contractor at the Contractor's own expense. Concurrent removal of material for more than one pay item from a single source or pit shall be prohibited except with the written permission of, and under such conditions and restrictions as may be imposed by the Engineer. All borrow pits shall be stripped of sod, topsoil and vegetable matter well in advance of any working face. The minimum distance by which stripping shall lead excavation for a given source shall be established by the Engineer to suit local conditions. Where a borrow source is not under direct control of the Contractor or where special conditions exist, the Engineer may waive any of the above requirements and establish alternative provisions for the control and acceptability of borrow.

Ordinary borrow will be accepted for use where the material qualifies under the definition of Suitable Material, §203-1.01H. *Suitable Material.* All borrow placed within the limits of Embankment or the Subgrade Area shall be placed in conformance with §203-3.03B. *Embankments* or §203-3.01G. *Subgrade Area* respectively, as appropriate, or where used for fill or backfill at structures, culverts and pipes, in conformance with §203-3.06 *Select Granular Fill* and §203-3.17 *Select Structural Fill.*

**G. Subgrade Area.** Where a subgrade area is defined in an embankment by §203-1.01E. *Subgrade Area*, the material placed shall conform to §203-2.01A. *Subgrade Area Material*, placed and compacted in conformance with §203-3.03B. *Embankments* and §203-3.03C. *Compaction.* Where longitudinal and transverse changes from cut to fill are encountered in the work, a subgrade transition section shall be provided in conformance with Standard Sheet *Earthwork Transition and Benching Details.* Where a subgrade area becomes defined by §203-1.01E. *Subgrade Area* in a cut section, the materials placed and other details shall be as specified under §203-3.02C. *Proof Rolling in Cut Sections 3. Procedure*, unless otherwise required by the contract documents. Prior to subbase course placement, the surface on which the subbase is to be placed shall be thoroughly compacted to the satisfaction of the Engineer.

**1. Subgrade Surface Tolerance.** After compaction, the subgrade surface shall not be above design elevation at any location.

### 203-3.02 Unclassified Excavation and Disposal.

**A. Rock Excavation.** Presplitting is required where the design rock slope is 1 vertical on 1 horizontal or steeper and the vertical height of the exposed rock slope exceeds 5 ft. Ripping will not be allowed within 10 ft. of a slope that requires presplitting. Test sections will be required at the outset of presplit drilling and blasting operations for the evaluation of the presplit rock slopes by a Departmental Engineering Geologist. The Contractor will be required to completely expose the presplit rock face in the test section for evaluation prior to any further presplit drilling.

All rock slopes shall be thoroughly scaled and cleaned. For rock excavations involving multiple lifts, scaling of upper lifts shall be completed prior to drilling and fragmenting of lower lifts. Scaled rock slopes shall be stable and free from possible hazards of falling rocks or rock slides that endanger public safety. If, after scaling, such conditions still exist, a determination of the cause will be made by a Departmental Engineering Geologist and if it is determined that the conditions are the result of poor quality work or improper methods employed by the Contractor, the Contractor shall provide approved remedial treatment, at no expense to the State. Such treatment may include, but is not necessarily limited to, laying back the slope, rock bolting, or shotcreting. In no case shall the subgrade be trimmed prior to the completion of the scaling operation at any location.

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**1. Presplitting.** Prior to drilling presplitting holes, the overburden shall be completely removed to expose the rock surface along the presplitting line. The methods of collaring the holes to achieve required inclination and alignment shall be approved by the Engineer.

The presplitting holes shall be a maximum of 4 in. in diameter, spaced not more than 3 ft. center to center along the slope, and drilled at the designed slope inclination for a maximum slope distance of 60 ft. When excavation operations are conducted in multiple lifts, the presplitting holes for successive lifts may be offset a distance of not more than 3 ft. for a design slope of 1 vertical on 1 horizontal and not more than 1 ft. for slopes of steeper design; however, a presplitting hole shall not be started inside the payment line. The Contractor shall control the presplit drilling operations by using proper equipment and technique to achieve the design slope and maximum bench between lifts. If presplitting is conducted in lifts, each lift shall be of approximately equal depth. All presplitting holes shall be checked and cleared of obstructions immediately prior to loading any holes in a round. All presplitting holes shall be loaded with a continuous column charge manufactured especially for presplitting which contains not more than 0.35 lbs. of explosive per foot. The top of the charge shall be located not more than 3 ft. below the top of rock. A bottom charge of not more than 3 lbs. of packaged explosive may be used; however, no portion of any bottom charge shall be placed against a proposed finished slope. Each presplitting hole shall be filled with No. 1A crushed stone stemming meeting the gradation requirements of §703-02 *Coarse Aggregate*. The presplitting charges shall be fired with detonating cord extending the full depth of each hole and attached to a trunk line at the surface. Detonation of the trunk line shall be with blasting cap(s) and shall precede the detonation of fragmentation charges within the section by a minimum of 25 milliseconds. Presplitting shall extend for a minimum distance equal to the burden plus 3 ft. beyond the limits of fragmentation blasting within the section.

**2. Fragmentation Blasting.** Fragmentation holes, or portions thereof, shall not be drilled closer than 4 ft. to the proposed finished slope. Where presplitting is required, fragmentation holes adjacent to the presplitting holes shall be drilled parallel to the presplitting holes for the full depth of the production lift at a spacing not exceeding the spacing of the production pattern. Only packaged explosives shall be used 10 ft. or less from a design slope which requires presplitting regardless of the construction sequence.

Fragmentation charges shall be detonated by properly sequenced millisecond delay blasting caps.

**3. Explosive Loading Limits.** In the absence of more stringent requirements, the maximum quantity of explosives allowed per delay period shall be based on a maximum particle velocity of 2 in./s at the nearest structure to be protected. In the absence of seismic monitoring equipment, the following explosive loading limits shall apply:

### **DISTANCE EQUAL TO OR LESS THAN 212 ft. FROM THE NEAREST STRUCTURE**

- a. When the distance from the proposed blasting area to the nearest structure to be protected is 6 ft. or less, no blasting shall be allowed.
- b. When the distance between the blasting area and the nearest structure to be protected is greater than 6 ft. and equal to or less than 15 ft., a maximum of ¼ lb. of explosives per delay period (minimum of 25 milliseconds) blasting cap shall be allowed.
- c. When the distance between the blasting area and the nearest structure to be protected is greater than 15 ft. and equal to or less than 212 ft., a Scaled Distance of 30 ft. shall be utilized to determine the maximum amount of explosive allowed per delay period (minimum of 25 milliseconds) blasting cap. The Scaled Distance Formula is as described below:

$$SD = \frac{D}{\sqrt{E_{\max}}}$$

where:  $SD$  = Scaled Distance  
 $D$  = Distance from blasting area to nearest structure to be protected in feet

## EXCAVATION AND EMBANKMENT

or

$$E_{\max} = \frac{D^2}{(SD)^2}$$

where:  $E_{\max}$  = Maximum pounds of explosive per delay period (minimum of 25 milliseconds) blasting cap

**DISTANCE GREATER THAN 212 ft. FROM THE NEAREST STRUCTURE**

a. When the blaster elects to utilize more than 50 lbs. of explosive per delay period (minimum of 25 milliseconds) blasting cap, a seismograph shall be employed to monitor the blasting vibrations generated. The initial loading shall be computed using a Scaled Distance of 30 ft. The resulting particle velocity measured by the seismograph shall be evaluated by a Department Engineering Geologist. The Geologist's evaluation shall be the basis for adjusting the Scaled Distance.

No separate payment shall be made for this work. The cost shall be included in the appropriate excavation item. The above requirements shall in no way relieve the Contractor of liability for any damage incurred as a result of the blasting operations.

**B. Disposal of Surplus Excavated Materials.** Only unsuitable materials, or that portion of suitable material excavated in excess of the quantity required to construct all embankments on the project, shall be considered as surplus.

Where disposal of surplus materials cannot be accommodated within the right of way, the excess shall become the Contractor's property for disposal. Surplus material disposed of within the right-of-way shall be placed in accordance with §107-10 *Managing Surplus Material And Waste*.

**C. Proof Rolling in Cut Sections.** Immediately prior to final trimming of the subgrade surface and placement of subbase materials in cut sections, all areas of the subgrade surface within roadway limits shall be proof rolled according to the requirements of this subsection. This work, and any delays due to this work, shall be considered incidental to the excavation item.

**1. Purpose.** In cut sections, the purpose of proof rolling is to determine the location and extent of areas below the subgrade surface that require corrective undercutting and are not so specified in the contract documents.

**2. Equipment.** The proof roller used in embankment sections, as specified in §203-3.03D. *Proof Rolling in Embankment Sections 1. Equipment*, shall be employed for proof rolling in cut sections except that the roller shall be loaded to achieve a single stress level in operation, using a gross ballasted weight of 30 tons and all tires inflated to 40 psi.

**3. Procedure.** Two complete passes shall be applied over all elements of the area to be proof rolled. Where any portion of the cut subgrade surface other than that which has been damaged by the Contractor's operations fails to provide a satisfactory support for the proof rolling operation, the Engineer may order corrective undercut and backfill work performed. Backfill of undercuts shown in the contract documents or ordered by the Engineer shall be in conformance with §203.3-13 *Select Granular Subgrade*. Where natural soil below this course will not support the weight of the construction equipment, and when ordered by the Engineer, the course shall be placed in one lift. No additional proof rolling shall follow corrective work.

**4. Exceptions.** Proof rolling of the subgrade surface in cut sections will not be required in any area where the subgrade surface is in a rock cut, or where undercut and backfill has been previously performed.

## EXCAVATION AND EMBANKMENT

The Engineer may order undercutting and backfill without proof rolling of any cut where the need for corrective work, as determined by the Engineer, is obvious without actual proof rolling. The Engineer may also delete proof rolling in any cut section where, based upon a written evaluation by a Departmental Geotechnical Engineer, proof rolling would be detrimental to the work.

### 203-3.03 Embankment In Place.

**A. Embankment Foundation.** After completion of the work required under Section 201 *Clearing and Grubbing*, and Section 202 *Removal of Structures and Obstructions*, the embankment foundation shall be prepared. Sod and topsoil shall be removed where the final pavement grade is 6 ft. or less above the existing ground surface and in other areas designated in the contract documents or by the Engineer. Prior to embankment construction and subbase course placement, the surface on which the embankment and/or subbase is to be placed shall be thoroughly compacted to the satisfaction of the Engineer. Unsuitable materials other than sod and topsoil shall be removed to the depths shown in the contract documents or as directed by the Engineer. Underwater areas shall be filled in accordance with §203-3.04 *Select Borrow* or §203-3.05 *Select Fill* and paid for under its appropriate item.

Where embankments are to be constructed over ground that will not adequately support embankment construction equipment, an initial layer of fill may be allowed to form a working platform. The need, manner of construction, and thickness of such a layer shall be subject to approval of the Engineer, and the layer will be permitted only where the lack of support is, as determined by the Engineer, not due to deficient ditching, grading or drainage practices or where the embankment could be constructed in the approved manner by the use of different equipment or procedures. Thicknesses of up to 3 ft. may be permitted for such a layer. Concrete or asphalt slabs may be used at the bottom of such a layer, provided they are placed horizontally.

In locations where embankments are to be constructed on hillsides or against existing embankments with slopes steeper than 1 vertical on 3 horizontal, the slopes shall be benched. Required benches shall be constructed as shown on the Standard Sheet *Earthwork Transition and Benching Details*.

Where old pavement is encountered within 2 ft. of the top of the subbase course, it shall be broken up or scarified.

**B. Embankments.** The embankment shall be constructed of suitable material as defined by §203-1.01H. *Suitable Material*. Embankment material shall not be placed on frozen earth, nor shall frozen soils be placed in any embankments. Embankment material shall be placed and spread in lifts (layers) of uniform thickness, then uniformly compacted as specified under applicable portions of §203-3.03C. *Compaction*. During embankment construction operations, earth moving equipment shall be routed so as to prevent damage to any compacted lift. Damage to any compacted lift at any time during the course of construction, such as rutting under the loads imposed by earth moving equipment, shall be fully repaired by the Contractor at his/her own expense prior to placement of any overlying materials. At the close of each day's work, the working surface shall be crowned, shaped and rolled with smooth steel wheel or pneumatic tired rollers, for positive drainage.

Particles with a dimension in excess of  $\frac{2}{3}$  of the loose lift thickness are designated as oversized particles. Oversized particles shall be removed prior to compaction of the lift and may be placed in the Embankment Side Slope Area.

Pieces of concrete or asphalt may be used provided that the voids between the pieces are completely filled, and the greatest dimension of any piece does not exceed  $\frac{2}{3}$  the loose lift thickness. Exposed mesh or rebar shall not exceed 1 in. in length.

Embankments constructed using rock products or pieces of concrete shall be spread by bladed equipment on each lift to minimize the formation of large voids as the work progresses. The top lift of a rock or concrete fill shall be chinked.

When permitted by a note in the contract documents, stumps, logs, and other materials may be placed in the Embankment Side Slope Area, provided that: 1) such matter is deposited and compacted concurrent with the adjacent embankment, and; 2) any stumps or woody material are covered by not less than 2 ft. of soil beneath the exposed side slope surface.

Glass shall not be placed in contact with synthetic liners, geogrids, geotextiles or other geosynthetics.

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### C. Compaction

**1. General Requirements.** It shall be the Contractor's responsibility to properly place and compact all materials in the road section and other locations specified in the contract documents, and to correct any deficiencies resulting from insufficient or improper compaction of such materials throughout the contract period. The Contractor shall determine the type, size and weight of compactor best suited to the work at hand, select and control the lift (layer) thickness, exert control over the moisture content of the material, and other details necessary to obtain satisfactory results. During the progression of the work, the Department will inspect the Contractor's operations and will permit the work to continue where:

- a.** Lift thickness is controlled and does not exceed the maximum allowed according to the equipment classifications in subparagraph 2. *Compaction Equipment*, of this subsection, and the equipment meets all specified class criteria. Thinner lifts and lighter equipment than the maximum allowed may be necessary for satisfactory results on some materials.
- b.** The compactive effort (number of passes and travel speed) is uniformly applied and not less than that specified for the given equipment class and lift thickness. Higher efforts than the minimum allowed may be necessary for satisfactory results on some materials.
- c.** The Engineer concludes from a visual observation that adequate compaction has been attained, with the exception of backfill at structures, culverts, pipes, conduits, and direct burial cables. However, the State reserves the right to perform density tests at any time. When tests are performed, the results shall indicate that not less than 90% of Standard Proctor Maximum Density is attained in any portion of an embankment, or 95% in a subgrade area, or as specified for other items with a percent maximum density requirement.
- d.** Significant rutting under the action of the compactor is not observed on the final passes on a lift.

Whenever the Contractor's operations do not conform to the above criteria, or requirements contained in other subparagraphs of this subsection, the Engineer will prohibit placement of an overlying lift until the Contractor takes effective corrective action.

As part of the Department's Quality Assurance (QA) program, the Engineer or his representative may verify the adequacy of the compaction at any time through QA testing. When the Engineer determines that QA tests are necessary, the Contractor shall provide any assistance requested to facilitate such tests. Such assistance shall include but will not be limited to excavation and backfill of test pits and holes. This work shall be considered to be incidental construction.

Damage to any compacted lift at any time during the course of construction such as rutting under the loads imposed by earth moving equipment, shall be fully repaired by the Contractor at his/her own expense prior to placement of any overlying materials.

**2. Compaction Equipment.** The selection of compaction equipment is the Contractor's responsibility, but shall be subject to meeting the requirements of this subparagraph and approval by the Engineer with respect to its provisions. All compaction equipment shall be marked by a permanently attached manufacturer's identification plate designating the name of the manufacturer, model number and serial number of the machine as minimum identification. This plate shall be installed in a readily visible location. Compaction equipment lacking such an original manufacturer's identification plate, or with altered or illegible plates, will not be recognized as acceptable compaction equipment. Any equipment not principally manufactured for soil compaction purposes and equipment which is not in proper working order in all respects shall not be approved or used. The Engineer will also withhold approval of any compactor for which the Contractor cannot furnish manufacturer's specifications covering data not obvious from a visual inspection of the equipment and necessary to determine its classification.

The term, "pass," for any type of compactor, shall denote one direct vertical application of compactor effort over all elemental areas of a lift surface. Terms in common parlance, such as "coverage," "trips," etc., have no significance, equivalence, or application under these specifications.

TABLE 203-1 PNEUMATIC-TIRED COMPACTOR CLASSIFICATIONS			
Pneumatic	Tire Requirements		Range of Ballasted Wheel
		Inflation	

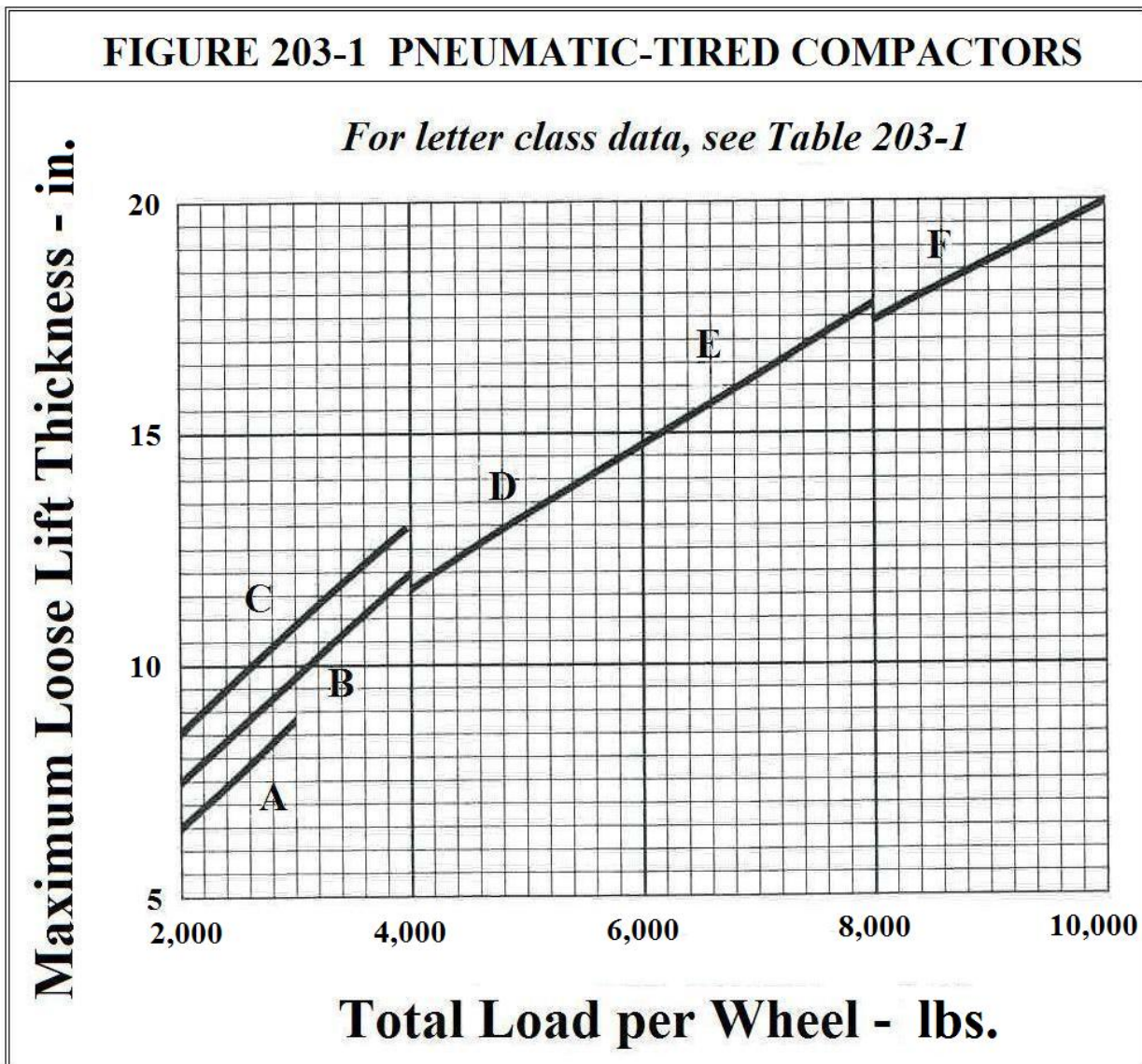


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Compactor Class	Tire Size	No. Plys	Pressure (psi)	Loads (lbs. per Wheel)
A	7.50 x 15	4	35	2,000 – 3,000
B	7.50 x 15	6	60*	2,000 – 4,000
		10	90*	
C	7.50 x 15	14	130*	2,000 – 4,000
D	9.00 x 20	10	75*	4,000 – 6,000
		12	90*	
E	11.00 x 20	12	90*	6,000 – 8,000
		18		
F	13.00 x 24	18	100*	8,000 – 10,000

\* Inflation pressure for not less than the last two passes on each lift. May be reduced during earlier passes and gradually increased to this level.

**a. Pneumatic-Tired Compactors.** This type of compactor shall be classified for use according to the requirements of Table 203-1. For the lift thickness selected by the Contractor, the minimum class and wheel load which will be allowed on that lift thickness, shall be as shown in Figure 203-1.



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The minimum effort for all pneumatic compactors shall be 6 passes, at speeds up to 12 ft./sec on no more than the first 2 passes, and all subsequent passes at speeds of 6 ft./sec. or less.

**b. Smooth Drum Vibratory Compactors.** This type of compactor is defined as a machine which primarily develops its compactive effort from the vibrations created and is classified for use according to the developed compactive force rating (CFR) per linear inch of drum width.

The CFR is defined as follows:

$$\text{CFR} = \frac{\text{Unsprung Drum Weight (lbs.)} + \text{Dynamic Force (lbs.)}}{\text{Drum Width (in.)}}$$

The unsprung drum weight is the static weight of the drum and appurtenances without any reaction transmitted to the drum from the main chassis of the compactor. The dynamic force produced is dependent on the frequency of vibration, and therefore, CFR ratings shall be determined for the actual operating frequency of the compactor. Approval for vibratory compactors shall be confined, however, to equipment operating at not less than 1100 vpm, nor more than 1500 vpm, and those where the actual dynamic force at the actual operating frequency is at least 2.5 times the unsprung drum weight.

Conversion of manufacturer's published ratings, at a given frequency, shall be made with the following equation:

$$F_2 = \frac{F_1(V_2)^2}{(V_1)^2}$$

where:  $F_1$  = Dynamic Force at Rated Frequency  
 $F_2$  = Dynamic Force at Operating Frequency  
 $V_1$  = Rated Frequency  
 $V_2$  = Operating Frequency

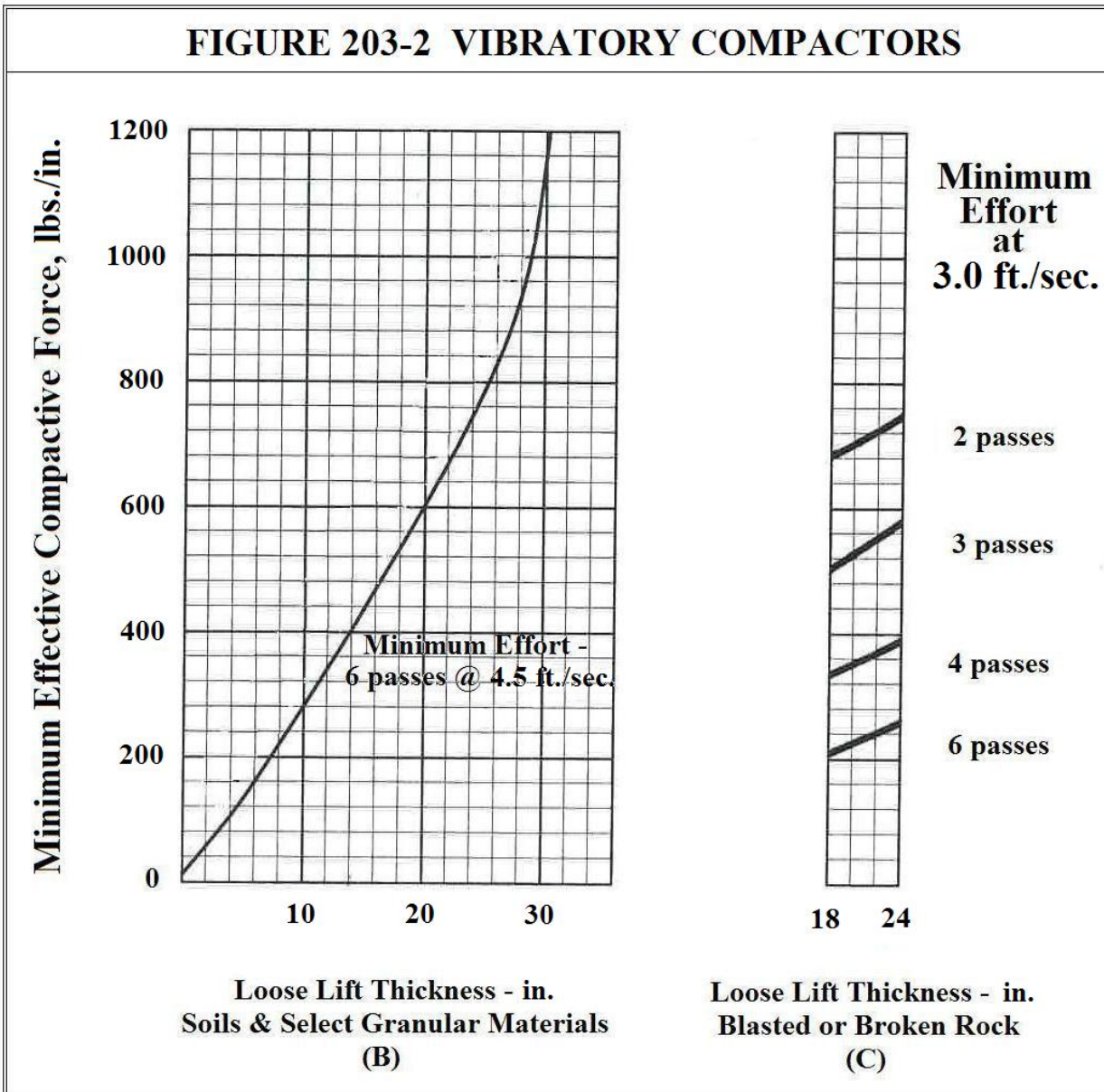
For the lift thickness selected by the Contractor, the minimum CFR rating and minimum effort on such a lift, shall be as shown in Figures 203-2B&C, respectively. Non-Centrifugal (Vertical force only) types of vibratory compactors shall be approved as above, less 175 lbs./in. before using Figures 203-2 B&C as a minimum number of passes at a single specified speed. An equivalent effort, relating varying numbers of passes to other speeds is given by the equation:

$$\text{Speed X} = \frac{(\text{Specified Speed}) (\text{Min. Passes at Speed X})}{(\text{Specified Min. Passes})}$$

The Contractor may choose to alter the specified minimum pass requirement, provided that speed is adjusted to the value given by this equation and does not exceed 6 ft./sec.

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FIGURE 203-2 VIBRATORY COMPACTORS



Where vibratory compactors are used on a project, the Contractor shall furnish for the exclusive use of the Engineer, one vibrating reed tachometer per project, plus one additional tachometer for each group of two vibratory compactors in excess of two per project. Tachometers shall have a frequency range adequate to cover operating frequencies of all vibratory compactors used on the project and shall

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have scale divisions of 50 vpm or less. Tachometers may be placed on the ground surface near the compactor when making readings, or with suitable damping materials interposed, placed directly on the compactor drum frame.

The dispensations permitted under this specification for vibratory compactors are contingent upon proper operation of the equipment at all times during compaction operations. In any instance where the Engineer encounters any problems with operators rolling without vibration, for any reason, and immediate and effective corrective action is not taken by the Contractor, the Engineer will halt the work until the problem is resolved. If continuing problems of this nature occur, the Engineer may suspend all provisions of this subparagraph and consider the vibratory compactors as smooth steel wheel rollers classified according to their gross weight.

**c. Sheepsfoot and Segmented Pad Foot Rollers.** This type of compactor shall be defined as a machine which is primarily designed to compact a lift from the bottom to the top.

The maximum loose layer thickness of the material to be compacted shall be equal to the length of the feet plus 15%. The end area size and configuration of the feet shall be selected by the Contractor to suit the characteristics of soil being compacted.

Where sheepsfoot and segmented pad foot rollers are used, with or without vibration, the number of passes required for job control shall be determined by a jobsite test in which the feet penetrate into the loose lifts and, with further passes, eventually and substantially “walk out” of the layer. This job control shall then be established for that machine, lift thickness and material, provided that adequate moisture control is continuously maintained per §203-3.03C. *Compaction 3. Moisture Control.* Sheepsfoot and segmented pad foot rollers shall be operated at speeds not exceeding 6 ft./sec., when towed and 15 ft./sec. when self-propelled.

**d. Smooth Steel Wheel Rollers.** Smooth steel wheel rollers shall be considered as primary compactors on layers whose maximum thickness, after compaction, is 8 in. When so used, the roller shall have a nominal gross weight of not less than 10 tons, exert a minimum force of not less than 300 lbs/in. of width on the compression roll faces, and a minimum of 8 passes shall be applied over each lift with the roller operating at a speed not exceeding 6 ft./sec.

When the Contractor employs smooth steel wheel rollers exclusively for surface compaction, leveling or finishing operations on lifts previously compacted by other types of primary compactors, the above restrictions shall not apply.

This section applies to non-vibratory rollers or vibratory rollers operated in the static mode only.

**e. Other Type of Compactors.** Compactor types other than those classified above, may be employed by the Contractor, subject to approval by the Engineer of the proposed minimum applied effort (minimum number of passes and travel speed) and maximum lift thickness. Such approval by the Engineer will be based upon the results of appropriate on-site field tests.

**f. Compaction Equipment for Confined Areas.** In areas inaccessible to conventional compactors, or where maneuvering space is limited, impactor rammers, plate or small drum vibrators, or pneumatic buttonhead compaction equipment may be used with layer thickness not exceeding 6 in. before compaction. Hand tampers shall not be permitted. The Engineer may approve or reject any of the above described mechanical devices based upon the results of appropriate on-site field tests.

**3. Moisture Control.** All fill or backfill material to be compacted, shall be at a moisture content for adequate compaction of that material using the compactor selected by the Contractor to perform the work. The Contractor shall be responsible for determining the appropriate moisture content, and for controlling it within the proper limits as the work is progressed. When water must be added to a material, it may be added on the lift or in the excavation or borrow pit. Water added on the lift, however, shall be applied by use of an approved pressure distributor. Distributors must be approved and documented by the Engineer. Documentation by the Engineer shall be adequate evidence of approval. Water added shall be thoroughly incorporated into the soil, and the soil shall be manipulated to attain uniform moisture distribution. When

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the moisture content of a lift about to be compacted exceeds the required amount, compaction shall be deferred until the layer has dried back to the required amount. Natural drying may be accelerated by blending in a dry material or manipulation alone, to increase the rate of evaporation. Increased loose lift thickness caused by blending in a dry material, however, may necessitate a change in compaction equipment and/or methods to meet the minimum provisions of subparagraph 2. *Compaction Equipment* of this subsection.

**FIGURE 203-3 GUIDE FOR SELECTING THE INITIAL STRESS LEVEL FOR PROOF ROLLING EMBANKMENT SECTIONS**

Relative Subgrade Support	Poor	Fair			Good	Excellent	
Well Graded Soils						GRAVEL - SAND Mixtures little to no fines	
					GRAVEL - SAND - SILT - CLAY Mixtures SANDS or GRAVELLY SANDS little or no fines SAND - SILT - CLAY Mixtures, slight plasticity SILTY SANDS OR SAND - SILT Mixtures, slight plasticity		
Poorly Graded Soils				SANDS or GRAVELLY SANDS little or no fines			
			SAND - SILT - CLAY Mixtures, plastic		SILTY GRAVELS or GRAVEL - SAND - SILT Mixtures		
		SAND - SILT - CLAY Mixtures or CLAYEY SANDS, plastic to high pl.					
			SILTS and Very Fine SANDS slight or no plasticity		GRAVELS and GRAVEL - SAND Mixt. little or no fines		
	LEAN CLAYS, SILTY CLAYS, slightly plastic to plastic						
	ELASTIC SILTS, Micaceous or Diatomaceous SILTS						
	FAT CLAYS, SILTY CLAYS highly plastic						
Stress Level	Minimum	1	2	3	4	5	Maximum
Gross Tons	30	34	38	42	46	50	50
Tire psi	40	50	60	70	80	90	130

**D. Proof Rolling in Embankment Sections.** Immediately prior to final trimming of the subgrade surface and placement of subbase materials in embankment sections, all areas of the subgrade surface within roadway limits shall be proof rolled according to the requirements of this subsection. This work, and any delays due to this work, shall be considered incidental to the embankment item.

**1. Equipment.** The proof roller shall consist of a chariot type rigid steel frame with a box body suitable for ballast loading up to 50 tons gross weight, and mounted on four pneumatic tired wheels acting in a single line across the width of the roller on its transverse load center line. The wheels shall be equipped with 18.00 x 24 or 18.00 x 25, 24 ply tires, and shall be suspended on articulated axles such that all wheels carry approximately equal loads when operating over uneven surfaces.

**2. Determination of Roller Stress.** Initially, the gross ballasted weight and tire inflation pressure of the proof roller shall be adjusted to the highest stress level shown in Figure 203-3 based on:

- a. The general description of the subgrade soils.
- b. The estimation of the relative subgrade support within the subgrade soil description range.

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The initial roller stress for embankments constructed of rock shall be the maximum level listed in Figure 203-3 (50 Gross Tons, 130 Tire psi).

The roller shall be operated briefly to establish the acceptability of the initial stress level. Proof rolling of the embankment shall be performed at the next lower stress level whenever operation of the roller at a higher stress level is accompanied by consistent lateral displacement of soil out of the wheel paths.

**3. Procedure.** After an acceptable stress level is established, two complete passes of the roller shall be applied over all elements of the area to be proof rolled. Any deficiencies disclosed during the proof rolling operation shall be corrected. Subsidence depressions shall be filled with material similar to the subgrade soil and then compacted in a normal manner. After compaction, these areas shall be proof rolled again. Corrective work shall be judged complete and accepted by the Engineer when all elements of the subgrade surface over a given embankment show a satisfactory uniform response to the proof roller.

**4. Exceptions.** Proof rolling of the subgrade surface in embankment sections will not be required in any area where:

- a. Due to restrictions in available access and/or maneuvering space, use of the proof roller may damage adjacent work;
- b. The proof roller will approach a culvert, pipe or other conduit closer than 5 ft. in any direction.

**203-3.04 Select Borrow.** The management of a select borrow source and the acceptability of all select borrow material shall be in conformance with §203-3.01F. *Borrow*.

Underwater areas shall be filled with select borrow to 2 ft. above the water surface at the time of placement and in conformance with the details shown on the appropriate Standard Sheet or as noted in the contract documents.

All select borrow placed within the limits of Embankment or the Subgrade Area shall be placed in conformance with §203-3.03B. *Embankments* or §203-3.01G. *Subgrade Area* respectively, as appropriate, or where used for fill or backfill at structures, culverts and pipes, in conformance with §203-3.06 *Select Granular Fill* and §203-3.17 *Select Structural Fill*.

**203-3.05 Select Fill.** Underwater areas shall be filled with select fill to 2 ft. above the water surface at the time of placement and in conformance with the details shown on the appropriate Standard Sheet or as noted in the contract documents.

All select fill placed within the limits of Embankment or the Subgrade Area shall be placed in conformance with §203-3.03B. *Embankments* or §203-3.01G. *Subgrade Area* respectively, as appropriate, or where used for fill or backfill at structures, culverts and pipes, in conformance with §203-3.06 *Select Granular Fill* and §203-3.17 *Select Structural Fill*.

**203-3.06 Select Granular Fill.** The type of material to be used in bedding, filling and backfill at culverts, pipes, conduit and direct burial cable shall be in conformance with the details shown on the appropriate Standard Sheet or as noted in the contract documents. Do not use RAP. Do not use slabs or pieces of either concrete or asphalt.

Fill or backfill material at culverts and pipes shall be deposited in horizontal layers not exceeding 6 in. in thickness prior to compaction. Compaction of each layer shall be as specified under §203-3.03C. *Compaction*. A minimum of 95% of Standard Proctor Maximum Density will be required. When placing fill or backfill around culverts and pipes, layers shall be deposited to progressively bury the pipe or culvert to equal depths on both sides. The limits to which this subsection will apply shall be in accordance with the Standard Sheets or as modified in the contract documents.

Fill or backfill for conduit or cable placed in a trench shall be carefully placed in a horizontal layer to a depth of 6 in. over the top of the conduit or cable. This layer of material shall not be compacted, however, the remaining portion of the trench shall be backfilled in accordance with the preceding paragraph. Where cables or conduits are placed and backfilled by a machine in one operation, the above requirements for backfilling do not apply.

Where sheeting has been used for the excavation, and incremental removal of sheeting is not specified in the contract documents, sheeting shall be pulled when the trench has been backfilled to the maximum unsupported trench depth allowed by 29 CFR 1926.

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**203-3.07 Select Granular Fill Slope Protection.** The Contractor shall perform the excavation in accordance with the requirements for “Unclassified Excavation and Disposal” as described elsewhere in these specifications. The Contractor shall then spread material conforming to the requirements given in §733-12 *Select Granular Slope Protection*, in one layer to its full thickness by a method approved by the Engineer. The work shall be performed where shown in the contract documents or where directed by the Engineer in accordance with the Standard Sheets, and details shown on the contract documents. Compaction of the slope protection is not required. Slope Protection shall be either of two types, as described below:

**A. Select Granular Fill, Slope Protection - Type A.** Under this type, the Contractor shall furnish and install the slope protection where shown in the contract documents in accordance with the details shown on the Standard Sheets.

**B. Select Granular Fill, Slope Protection - Type B.** Under this type, the Contractor shall furnish and install the slope protection where directed by the Engineer in accordance with the details shown on the Standard Sheets.

**203-3.08 Surface Settlement Gauges.** Surface settlement gauges shall be constructed, installed, and maintained where shown in the contract documents and in accordance with the details contained in the geotechnical control procedure “*Settlement Gauges and Settlement Rods*” covering construction, installation, maintenance, and abandonment of these devices.

Where surface settlement gauges are called for, it will be the Contractor's option to install pipe gauges or manometer gauges, unless a definite type is specified in the contract documents. Surface settlement gauges will be accepted for conformance with the specification requirements on the basis of an inspection of the installation by the Departmental Geotechnical Engineer.

**203-3.09 Settlement Rods.** Settlement rods shall be constructed, installed, and maintained where shown in the contract documents and in accordance with the details contained in the geotechnical control procedure “*Settlement Gauges and Settlement Rods*” covering construction, installation, maintenance, and abandonment of these devices.

Settlement rods will be accepted for conformance with the specification requirements on the basis of an inspection of the installation by the Departmental Geotechnical Engineer.

**203-3.10 Piezometers.** Piezometers shall be constructed, installed, and maintained at the locations shown in the contract documents and in accordance with the detailed drawings included in the contract documents.

**203-3.11 Applying Water.** None Specified.

**203-3.12 Select Granular Subgrade.** The type of material to be used in fill or backfill of undercuts shall be in conformance with the details shown in the contract documents or as ordered by the Engineer.

Fill or backfill material shall be deposited in horizontal layers not exceeding 6 in. in thickness prior to compaction. Compaction of each layer shall be as specified under §203-3.03C. *Compaction*. A minimum of 95% of Standard Proctor Maximum Density will be required.

**203-3.13 Select Structural Fill.** The type of material to be used in bedding, filling and backfill at structures shall be in conformance with the details shown on the appropriate Standard Sheet or as noted in the contract documents or as ordered by the Engineer. Do not use RAP. Do not use slabs or pieces of either concrete or asphalt.

Fill or backfill material at structures shall be deposited in horizontal layers not exceeding 6 in. in thickness prior to compaction. Compaction of each layer shall be as specified under §203-3.03C. *Compaction*. A minimum of 95% of Standard Proctor Maximum Density will be required. When filling behind abutments and similar structures, all material shall be placed and compacted in front of the walls prior to placing fill behind the walls to a higher elevation. The limits to which this subsection will apply shall be in accordance with the Standard Sheets or as modified in the contract documents.

Where sheeting has been used for the excavation, and incremental removal of sheeting is not specified in the contract documents, sheeting shall be pulled when the trench has been backfilled to the maximum unsupported trench depth allowed by 29 CFR 1926.

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**203-3.14 Sand Backfill.** The type of material to be used in bedding and filling shall be in conformance with the details shown in the contract documents or as ordered by the Engineer.

Bedding or fill material shall be deposited in horizontal layers not exceeding 6 in. in thickness prior to compaction. Compaction of each layer shall be as specified under §203-3.03C. *Compaction*. A minimum of 95% of Standard Proctor Maximum Density will be required.

### 203-4 METHOD OF MEASUREMENT

**203-4.01 General.** Quantities for all items of work with payment units in cubic yards will be computed from payment lines shown in the contract documents. Work performed beyond any designated payment line, including any offset required for the construction of presplit rock slopes in lifts, will not be included in the computation of quantities for the item involved.

For any item paid for in its final position, no additional quantity will be measured for payment to make up losses due to foundation settlement, compaction, erosion or any other cause.

Cross-sectioning, for the purpose of determining quantities for payment, will be employed only where payment lines are not shown in the contract documents or Standard Sheets, and cannot be reasonably established by the Engineer.

Quantities for benching will be computed for payment from the details and instructions shown on the Standard Sheet *Earthwork Transition and Benching Details*.

The excavation of unsuitable materials designated as topsoil under Section 613 *Topsoil*, will be included in the quantity measured for the appropriate unclassified excavation item, without distinction..

Where the item, "Embankment in Place," is designated for the project by the proposal, all borrow of ordinary suitable materials shall be incidental to the work of that item.

**203-4.02 Unclassified Excavation and Disposal.** Unclassified excavation and disposal will be measured in cubic yards, measured to the nearest whole cubic yard, computed in the original position for all excavation within right-of-way limits. No deduction shall be made for any pipes, culverts, structures, or other obstructions, unless these are measured for payment under another contract item. Excavation for borrow of suitable materials for embankment construction, shall not be included in the computation for this work.

**203-4.03 Embankment in Place.** Embankment in place will be measured in cubic yards, measured to the nearest whole cubic yard, computed in the final compacted position. Any additional quantity of material required to compensate for embankment settlement shall not be included in the measurement of this item. The quantities of embankment will exclude the total volume of pipes, culverts, other roadway items, and granular backfill within the payment lines for such granular backfill.

**203-4.04 Select Borrow.** Select borrow will be measured in cubic yards, measured to the nearest whole cubic yard, computed in the original position.

**203-4.05 Select Fill.** Select fill will be measured in cubic yards, measured to the nearest whole cubic yard, computed in the final compacted position.

**203-4.06 Select Granular Fill.** Select granular fill will be measured in cubic yards, measured to the nearest whole cubic yard, computed in the final compacted position. A deduction shall be made for pipes (based on nominal diameters) and other payment items when the combined cross-sectional area exceeds 1 ft<sup>2</sup> unless otherwise shown in the contract documents. No deduction will be made for the cross-sectional area of an existing facility.

**203-4.07 Select Granular Fill Slope Protection.** Select granular fill slope protection will be measured in cubic yards, measured to the nearest whole cubic yard, computed in the final position.

**203-4.08 Surface Settlement Gauges.** Surface settlement gauges will be measured by the number of devices satisfactorily installed.



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**203-4.09 Settlement Rods.** Settlement rods will be measured by the number of devices satisfactorily installed.

**203-4.10 Piezometers.** Piezometers will be measured by the number of devices satisfactorily installed.

**203-4.11 Applying Water.** The unit of measurement of water will be one pressure distributor per calendar day, denoted hereafter as one p.d.d., for dust control. Where the Contractor works in more than one separate and distinct shift per calendar day, each shift shall be considered as one p.d.d. A single shift plus overtime work, however, shall be considered as one p.d.d. The quantity thus determined shall be applied directly as the quantity to be paid for where the distributors used have a capacity of 3,000 gal. or less.

Provided that the Engineer determines that the total operating distributor capacity (number and sizes of all distributors) employed is reasonably commensurate with the needs for water application, additional payment will be allowed for distributors exceeding 3,000 gal. in capacity as follows:

Distributor Capacity	Pressure Distributor per Calendar Day Adjustment
3,000 gal. < distributor capacity < 5,000 gal.	p.d.d.'s will be multiplied by 1.5
5,000 gal. ≤ distributor capacity	p.d.d.'s will be multiplied by 2.0

No additional quantity shall be measured for payment for compaction purposes.

**203-4.12 Select Granular Subgrade.** Select granular subgrade will be measured in cubic yards, measured to the nearest whole cubic yard, computed in the final compacted position.

**203-4.13 Select Structural Fill.** Select structural fill will be measured in cubic yards, measured to the nearest whole cubic yard, in the final compacted position. A deduction shall be made for pipes (based on nominal diameters) and other payment items when the combined cross-sectional area exceeds 1 ft<sup>2</sup> unless otherwise shown in the contract documents. No deduction will be made for the cross-sectional area of an existing facility.

**203-4.14 Sand Backfill.** Sand backfill will be measured in cubic yards, measured to the nearest whole cubic yard, in the final compacted position. A deduction shall be made for pipes (based on nominal diameters) and other payment items when the combined cross-sectional area exceeds 1 ft<sup>2</sup> unless otherwise shown in the contract documents. No deduction will be made for the cross-sectional area of an existing facility.

### 203-5 BASIS OF PAYMENT

**203-5.01 General-All Items.** The unit price bid shall include the cost of furnishing all labor, materials, and equipment as necessary to complete the work, except where specific costs are designated or included in another pay item of work. Incidental costs, such as acquisition of borrow pits or material outside of the right-of-way, rock drilling and blasting, compaction and special test requirements, stockpiling and re-handling of materials, precautionary measures to protect private property and utilities, to form and trim graded surfaces, proof rolling, re-proof rolling, corrective work disclosed by proof rolling and any delays caused by this corrective work, shall be included in the unit price of the pay item where such costs are incurred. The exception is that corrective work ordered in cut sections based on an evaluation of proof rolling will be paid for under the appropriate excavation and backfill items.

Quantities for any additional items of work or substitution of material in accordance with the approved Winter Earthwork submittal shall be furnished at no cost to the State.

**203-5.02 Unclassified Excavation and Disposal.** The provisions of §203-5.01 *General-All Items* apply including the following:

The unit price bid shall cover all costs of required excavation within the right of way limits, and all costs of disposal if the excavated materials are not used under another pay item.

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**203-5.03 Embankment In Place.** The provisions of §203-5.01 *General-All Items* apply.

**203-5.04 Select Borrow.** The provisions of §203-5.01 *General-All Items* apply.

**203-5.05 Select Fill.** The provisions of §203-5.01 *General-All Items* apply.

**203-5.06 Select Granular Fill.** The provisions of §203-5.01 *General-All Items* apply.

**203-5.07 Select Granular Fill Slope Protection.** The provisions of §203-5.01 *General-All Items* apply.

**203-5.08 Surface Settlement Gauges.** The provisions of §203-5.01 *General-All Items* apply including the following:

The unit price bid shall cover all costs of providing, installing and maintaining each device, including excavation, trenching and backfill during the course of the work. No payment will be made under any other item of the contract for any work associated with these items.

When each installation is completed, 75% of the item unit price will be paid. The remaining 25% will be paid when each device has been properly maintained and is abandoned according to the procedures contained in the geotechnical control procedure “*Settlement Gauges and Settlement Rods*”. Unless otherwise specified in the proposal, the unit price shall also include the costs of removal.

**203-5.09 Settlement Rods.** The provisions of §203-5.01 *General-All Items* apply including the following:

The unit price bid shall cover all costs of providing, installing and maintaining each device, including excavation, trenching and backfill during the course of the work. No payment will be made under any other item of the contract for any work associated with these items.

When each installation is completed, 75% of the item unit price will be paid. The remaining 25% will be paid when each device has been properly maintained and is abandoned according to the procedures contained in the geotechnical control procedure “*Settlement Gauges and Settlement Rods*”. Unless otherwise specified in the proposal, the unit price shall also include the costs of removal.

**203-5.10 Piezometers.** The provisions of §203-5.01 *General-All Items* apply including the following:

The unit price bid shall cover all costs of providing, installing and maintaining each device, including excavation, trenching and backfill during the course of the work. No payment will be made under any other item of the contract for any work associated with these items.

When each installation is completed and the device placed in satisfactory operation, 75% of the unit price will be paid. The remaining 25% will be paid when all earthmoving and slope work is completed in the vicinity of each installation. Any installation rendered inoperative due to damage by construction equipment after partial or full payment, shall be immediately repaired or the full amount of such payment shall be deducted from other monies due the Contractor under the contract.

**203-5.11 Applying Water.** The unit price bid per one operating pressure distributor per calendar day for applying water shall include the costs of furnishing all labor, material and equipment necessary for dust control.

**203-5.12 Select Granular Subgrade.** The provisions of §203-5.01 *General-All Items* apply.

**203-5.13 Select Structural Fill.** The provisions of §203-5.01 *General-All Items* apply.

**203-5.14 Sand Backfill.** The provisions of §203-5.01 *General-All Items* apply.

*Payment will be made under:*

Item No.	Item	Pay Unit
203.02	Unclassified Excavation and Disposal	Cubic Yards
203.03	Embankment In Place	Cubic Yards

**EXCAVATION AND EMBANKMENT**

203.05	Select Borrow	Cubic Yards
203.06	Select Fill	Cubic Yards
203.07	Select Granular Fill	Cubic Yards
203.0801	Select Granular Fill, Slope Protection - Type A	Cubic Yards
203.0802	Select Granular Fill, Slope Protection - Type B	Cubic Yards
203.10	Surface Settlement Gauges	Each
203.12	Settlement Rods	Each
203.13	Piezometers	Each
203.1601	Applying Water	P.D.D.
203.20	Select Granular Subgrade	Cubic Yards
203.21	Select Structural Fill	Cubic Yards
203.25	Sand Backfill	Cubic Yards

Make the following changes to the Standard Specifications of May 1, 2008:

Page 192 **Delete** Section 208 (Vacant) and **Replace** it with the following:

**“SECTION 208 - STORMWATER MANAGEMENT FACILITIES**

**208-1 DESCRIPTION.** The work in this section shall include work required for stormwater management facilities.

**208-2 MATERIALS.** Materials shall be as specified in the special specifications.

**208-3 CONSTRUCTION DETAILS.** The extent of work and construction requirements will be covered by special specifications in the contract documents.

**208-4 METHOD OF MEASUREMENT.** As specified in the special specifications.

**208-5 BASIS OF PAYMENT.** As specified in the special specifications.”

Page 277 **Delete** SECTIONS 412 THRU 489 (VACANT) and **Replace** it with the following:

**“SECTION 412 - CRACK SEALING ASPHALT PAVEMENTS**

**412-1 DESCRIPTION.** The work in this section shall include work required for crack sealing asphalt pavements.

**412-2 MATERIALS.** Materials shall be as specified in the special specifications.

**412-3 CONSTRUCTION DETAILS.** The extent of work and construction requirements will be covered by special specifications in the contract documents.

**412-4 METHOD OF MEASUREMENT.** As specified in the special specifications.

**412-5 BASIS OF PAYMENT.** As specified in the special specifications.

**SECTIONS 413 THRU 489 (VACANT)”**

Page 483 **Delete** Section 601 (Vacant) and **Replace** it with the following:

**“SECTION 601 - ARCHITECTURAL PAVEMENTS AND TREATMENTS**

**601-1 DESCRIPTION.** The work in this section shall include work required for architectural pavements and treatments.

**601-2 MATERIALS.** Materials shall be as specified in the special specifications.

**601-3 CONSTRUCTION DETAILS.** The extent of work and construction requirements will be covered by special specifications in the contract documents.

**601-4 METHOD OF MEASUREMENT.** As specified in the special specifications.

**601-5 BASIS OF PAYMENT.** As specified in the special specifications.”

Page 556 **Delete** Section 616 AND 617 (Vacant) and **Replace** it with the following:

**“SECTION 616 – SOIL BIOENGINEERING AND STREAM RESTORATION**

**616-1 DESCRIPTION.** The work in this section shall include work required for soil bioengineering and stream restoration.

**616-2 MATERIALS.** Materials shall be as specified in the special specifications.

**616-3 CONSTRUCTION DETAILS.** The extent of work and construction requirements will be covered by special specifications in the contract documents.

**616-4 METHOD OF MEASUREMENT.** As specified in the special specifications.

**616-5 BASIS OF PAYMENT.** As specified in the special specifications.

**SECTION 617 - INVASIVE SPECIES CONTROL**

**617-1 DESCRIPTION.** The work in this section shall include work required for invasive species control.

**617-2 MATERIALS.** Materials shall be as specified in the special specifications.

**617-3 CONSTRUCTION DETAILS.** The extent of work and construction requirements will be covered by special specifications in the contract documents.

**617-4 METHOD OF MEASUREMENT.** As specified in the special specifications.

**617-5 BASIS OF PAYMENT.** As specified in the special specifications.”

Page 641 **Delete** Section 639 (Vacant) and **Replace** it with the following:

**“SECTION 639 - CONSTRUCTION CONTRACT MANAGEMENT SYSTEMS**

**639-1 DESCRIPTION.** The work in this section shall include work required for construction contract management systems.

**639-2 MATERIALS.** Materials shall be as specified in the special specifications.

**639-3 CONSTRUCTION DETAILS.** The extent of work and construction requirements will be covered by special specifications in the contract documents.

**639-4 METHOD OF MEASUREMENT.** As specified in the special specifications.

**639-5 BASIS OF PAYMENT.** As specified in the special specifications.”

Page 643 **Delete** Section 641, 642 AND 643 (VACANT) and **Replace** it with the following:

**“SECTION 641 - BRIDGE WASHING**

**641-1 DESCRIPTION.** The work in this section shall include work required for bridge washing.

**641-2 MATERIALS.** Materials shall be as specified in the special specifications.

**641-3 CONSTRUCTION DETAILS.** The extent of work and construction requirements will be covered by special specifications in the contract documents.

**641-4 METHOD OF MEASUREMENT.** As specified in the special specifications.

**641-5 BASIS OF PAYMENT.** As specified in the special specifications.

**SECTION 642 - ROADSIDE MAINTENANCE**

**642-1 DESCRIPTION.** The work in this section shall include work required for roadside maintenance. Examples of the type of work are mowing, litter pick up, cleaning and shaping ditches. Work involving slope repair, asphalt patching, culvert repairs, etc shall be specified in other sections.

**642-2 MATERIALS.** Materials shall be as specified in the special specifications.

**642-3 CONSTRUCTION DETAILS.** The extent of work and construction requirements will be covered by special specifications in the contract documents.

**642-4 METHOD OF MEASUREMENT.** As specified in the special specifications.

**642-5 BASIS OF PAYMENT.** As specified in the special specifications.

**SECTION 643 – NOISE BARRIERS**

**643-1 DESCRIPTION.** The work in this section shall include work involved with construction of noise barriers.

**643-2 MATERIALS.** Materials shall be as specified in the special specifications.

**643-3 CONSTRUCTION DETAILS.** The extent of work and construction requirements will be covered by special specifications in the contract documents.

**643-4 METHOD OF MEASUREMENT.** As specified in the special specifications.

**643-5 BASIS OF PAYMENT.** As specified in the special specifications.”

**NEW STANDARD SPECIFICATION SECTIONS**

Page 738 **Delete** SECTION 681 THRU 684 (VACANT) and **Replace** it with the following:

**“SECTION 681 AND 682 - (VACANT)****SECTION 683 - INTELLIGENT TRANSPORTATION SYSTEMS**

**683-1 DESCRIPTION.** The work in this section shall include work required for intelligent transportation systems.

**683-2 MATERIALS.** Materials shall be as specified in the special specifications.

**683-3 CONSTRUCTION DETAILS.** The extent of work and construction requirements will be covered by special specifications in the contract documents.

**683-4 METHOD OF MEASUREMENT.** As specified in the special specifications.

**683-5 BASIS OF PAYMENT.** As specified in the special specifications.

**SECTION 684 - (VACANT)”**

Make the following changes to the Standard Specification of May 4, 2006 / May 1, 2008:

**Section 501-3.02 D. Delivery Tickets**, *add* the following line to the top of the bullet list for delivery ticket requirements:

- “SiteManager Mix ID”



**“GENERATOR KNOWLEDGE” FOR DISPOSAL OF TREATED WOOD**

The U.S. Environmental Protection Agency (EPA) and New York State Department of Environmental Conservation (NYSDEC) technique for evaluating whether a material is hazardous for toxicity is the Toxicity Characteristic Leaching Procedure (TCLP). TCLP testing of pentachlorophenol (“penta”) and creosote treated wood by the Electric Power Research Institute, Association of American Railroads, and others has conclusively demonstrated that treated wood products are not a hazardous waste. Under EPA’s and NYSDEC’s rules, such “generator knowledge” can be utilized in place of testing to determine that a waste is not hazardous. This information can be used as evidence that treated wood products can be disposed as non-hazardous waste, based on generator knowledge, in lieu of physical testing.

Generator knowledge information, obtained from the American Wood Preservers Institute (AWPI) can be viewed at their web site located at [www.awpi.org](http://www.awpi.org). AWPI’s information comes from studies conducted by the Electric Power Research Institute (EPRI), the Washington Public Ports Association (WPPA), and the Association of American Railroads (AAR). EPRI test results are for both penta-treated and creosote-treated wood. WPPA and AAR test results are for creosote-treated wood.

*NOTE:* Arsenically-treated (*e.g.*, chromated copper arsenate [CCA]) wood products disposed by the end user are exempt from classification as a federal hazardous waste regardless of the TCLP results for specified constituents from any individual sample. Also, wood products treated with preservatives that contain no TCLP constituents (*e.g.*, Kodiak Preserved Wood containing Copper Dimethyldithiocarbamate) are not hazardous waste.

Additional questions regarding generator knowledge can be directed to the Hazardous Waste/ Groundwater Section of the Environmental Analysis Bureau at (518) 457-5672.

## BRIDGE (BIN) PLATE

One Bridge Identification Number (BIN) plate will be required for each bridge in this contract. For each bridge there may, or may not, be an existing BIN plate.

Therefore, one of the following conditions will exist with regard to BIN plates for any particular structure:

Condition No. 1. A BIN plate is attached to the structure but the nature of the work to be done does not require its removal.

Condition No. 2. A BIN plate is attached to the structure and the nature of the work to be done requires its removal.

Condition No. 3. A BIN plate is attached to the structure and is defaced, or otherwise damaged or incorrect.

Condition No. 4. A BIN plate is not attached to the structure.

Under Condition No. 1. the Contractor's sole obligation shall be to protect the plate from damage during the course of the work.

Under Condition No. 2. the Contractor shall be required to remove and store the BIN plate until such time as the BIN plate may be reinstalled without danger of damage. This requirement shall also apply if the BIN plate is being transferred from an existing abandoned bridge to a new in-service bridge. The Contractor shall furnish all necessary expansion anchors.

Under Condition No. 3. the Contractor shall be required to furnish and install a new BIN plate, and remove the damaged BIN plate. The Contractor shall furnish the panel with reflective background, numerals and expansion anchors. IF the BIN number cannot be deciphered the Engineer will supply the number.

Under Condition No. 4. the Contractor shall be required to furnish and install a BIN plate on the completed structure. The Engineer will supply the Bridge Identification Number. The Contractor shall furnish the panel with reflective background, numerals and expansion anchors.

Regardless of which condition governs the BIN plate installation, should damage occur to the BIN plate and the Engineer determines it cannot be repaired, the Contractor shall furnish a new plate consisting of the panel with reflective background, numerals, and expansion anchors at no expense to the State. If the Engineer determines the BIN plate may be repaired, repair shall be done at no expense to the State. This requirement applies to all four conditions.

The material requirements for the three parts of the BIN plate are:

Panel with reflective background. The aluminum panel and reflective background shall conform to the material and fabrication requirements of Material Specification 730-01, Aluminum Sign Panels. The

## BRIDGE (BIN) PLATE

background material shall be green reflective sheeting conforming to Materials Specification 730-05.01 (Class A Sheeting). The size of the panels shall be 1/8 inch thick by 3 inch by 12 inch. The panels shall have two 5/16 inch drilled or punched holes for mounting, located 1/2 inch from the ends of the panel and 1 1/2 inch from the top or bottom of the panel. The reflective sheeting used to form the background shall be a minimum of 3 inches wide by 10 inches long, or may be a full 12 inches long.

Numbers. The numbers shall be reflective sheeting conforming to Materials Specification 730-05.01 (Class A Sheeting), except that the adhesive shall be pressure-sensitive such that the numbers can be applied to the background in the field. The numbers shall be 2 inches high and silver-white in color conforming to FHWA series C dimensions.

Prior to placing the cutout numbers on the panel, the reflective background shall be clean and free of dirt and oil which may adversely affect proper adhesion. The numbers shall be placed on the reflective background, perpendicular to the longitudinal axis of the panel, and vertically centered. The reflective background and numbers shall be coated and/or edge sealed in accordance with the recommendations of the sheeting manufacturer.

Expansion Anchors. 1/4 inch diameter by 1 1/2 inch long stainless steel nail drive expansion anchors meeting GSA Specification A-A-1922 shall be used to attach the BIN plates to concrete and masonry surfaces.

The BIN plates shall be attached to the beginning abutment of the bridge using expansions anchors. The plate shall be placed high on the abutment, near the fascia of the bridge.

The cost of this work shall be included in the various items of the contract.

**SECTION 586 - MISCELLANEOUS STRUCTURAL RECONSTRUCTION**

Make the following changes to the Standard Specifications of May 1, 2008:

**Page 469 to 472**

*delete* Section 586 in its entirety and *replace* it with the following:

**SECTION 586 - MISCELLANEOUS STRUCTURAL RECONSTRUCTION**

**586-1 DESCRIPTION.** The work of this section shall consist of the following:

- Drilling and Grouting Bolts, or Reinforcing Bars.
- Removal of Rivets-Replacement with High Strength Bolts.
- Field Drill Holes in Existing Structural Steel.

**586-1.01 Drilling and Grouting Bolts, or Reinforcing Bars.** For the purposes of this section the terms bolts and reinforcing bars are identical.

**586-1.02 Field Drill Holes in Existing Structural Steel.** Existing structural steel is that structural steel in service prior to the beginning of construction.

**586-2 MATERIALS**

**586-2.01 Drilling and Grouting Bolts.** Grout material used in overhead applications, or where a sustained tensile load will exist, shall conform to §701-05 *Concrete Grouting Material*. Grout used in other applications shall conform to §701-07 *Anchoring Materials - Chemically Curing*.

**586-2.02 Removal of Rivets - Replacement with High Strength Bolts.** High strength bolts, nuts and washers shall meet the requirements of §715-14 *High Strength Bolts, Nuts and Washers*. If paint color is not specified, the color selected shall match the existing paint. Paint shall be selected from the Department's Approved List for Structural Steel Paint - Class 2.

**586-3 CONSTRUCTION DETAILS****586-3.01 Drilling and Grouting Bolts**

**A.** All holes shall be drilled by means of a rotary impact drill. If reinforcing steel is encountered, the reinforcing steel shall be cut and removed by means of a core drill. The remainder of the drilling shall be done with the rotary impact drill.

**B.** Drilling with a lubricant will not be permitted. Water is not considered a lubricant. Drilling methods shall not cause spalling, or other damage to concrete. Concrete spalled, or otherwise damaged by the Contractor's operations shall be repaired at no additional cost to the State.

**C.** Holes shall be surface dry and shall have had all foreign and loose material removed immediately prior to grout placement.

**D.** Grout shall be stored, mixed, and placed in strict accordance with the manufacturer's instructions, unless modified here, or elsewhere, in the contract documents. No grout shall be placed at a temperature below that recommended by the grout manufacturer.

**E.** Prior to bolt placement in the grouted hole, all material which might interfere with bond between the bolt and the grout shall have been removed. This includes, but is not limited to: moisture, grease,

**SECTION 586 - MISCELLANEOUS STRUCTURAL RECONSTRUCTION**

dirt, mill scale and rust. Rust which cannot be removed even by vigorous scrubbing with a wire brush is considered firmly bonded and may remain. The hole diameter shall be in accordance with the grout manufacturer's recommendation. The length of any plastic sleeve used as an aid to grout placement shall not be included in the length of the bolt hole. The bolts shall be inserted full depth into the hole and shall be manipulated and rotated to ensure complete coverage by the grout. After insertion of the bolt, all excess grout shall be struck off flush with the concrete face. Care shall be taken to prevent grout from running out of the drilled hole. Should the grout fail to fill the hole after bolt insertion, additional grout shall be added to the hole to allow a flush strike-off.

**F.** If the bolt is inserted in a hole with an axis that is predominantly horizontal, care shall be taken to prevent grout from running down the face of the concrete.

**G.** If approved by the Engineer, hole locations may be moved to avoid encountering reinforcing steel.

**H.** The Contractor may increase the embedment length beyond that required by the contract documents if approved by the Engineer, at no additional cost to the State. The bottom of the hole shall be at least 1 5/8 inches from the nearest free surface of a structural element, unless otherwise shown in the contract documents.

**586-3.02 Pull-Out Testing**

**A. Testing.** Table 1 gives the number of anchors (N1) to be tested for any lot size. The Engineer will randomly choose the anchors to be tested. Testing of anchors in a lot shall not begin until all the anchors in the lot are installed. If any (N1) anchors fail, N2 indicates the number of additional anchors that must be tested. If only one anchor fails, the lot will be accepted. If a second anchor fails, all remaining anchors must be tested.

A lot size is determined by the Contractor, but must meet the following criteria:

1. A lot size shall not exceed 600 anchors.
2. All anchors in a lot must be installed within a two-month period.
3. Any anchors installed beyond the two-month period set forth in 2 above shall be part of another lot.
4. A lot shall only include anchors grouted with a single product
5. A lot shall only include anchors of the same type, diameter and embedment depth.

<b>Table 586-1 NUMBER OF ANCHORS TO BE TESTED</b>		
<b>LOT SIZE</b>	<b>N1</b>	<b>N2</b>
1-30	All the anchors in the lot	-
31-50	30	All remaining anchors
51-75	38	All remaining anchors
76-100	44	21
101-200	49	26
201-300	50	30
301-600	55	30

**B. Equipment.** The equipment shall consist of a load cell, jacking system, a frame to distribute the jack load, couplers to connect the jack to the anchors, and appropriate safety devices. A calibrated pressure gauge with hydraulic ram is equivalent to a load cell. Prior to starting the testing, the

## SECTION 586 - MISCELLANEOUS STRUCTURAL RECONSTRUCTION

Contractor shall supply the Engineer with a certificate of calibration for the load cell performed within the previous six months by an independent testing agency. Supports for the frame used to distribute the jack load shall be located outside a circle centered at the anchor. The circle shall have a diameter equal to 2 inches plus twice the anchor embedment length, but need not exceed 24 inches. The frame and jack shall be positioned so that the load is applied along the axis of the anchor. Chains or cables shall be used to connect the various pieces of the tensioning system so that free flying projectiles will not be created by the failure of an anchor coupling or other portion of the testing system.

**C. Test Load.** The test load for anchor bolts shall be 90% of the ASTM proof load, unless otherwise specified in the contract documents. When no proof load is given in the ASTM specifications for anchor bolt steel, use the yield strength. The test load for reinforcement shall be 90% of the yield strength unless otherwise specified in the contract documents. Listed below are the test loads for the most commonly used anchor bolts and rebar steels, and anchor types.

<b>Table 586-2 TEST LOADS</b>			
<b>ASTM A325 or ASTM A449 Anchor Bolts (Coarse-Threaded Full Length)</b>		<b>ASTM A615 GR 60 Reinforcement Bars</b>	
<b>Diameter (inches)</b>	<b>Test Load (kips)</b>	<b>Size</b>	<b>Test Load (kips)</b>
1/2	11	4	11
5/8	17	5	17
3/4	26	6	24
7/8	35	7	32
1	46	8	43
1 1/8	51	9	54
1 1/4	65	10	69
		11	84
		14	122

Anchors shall be deemed to pass if the specified test load is attained without permanently displacing the anchors. Concrete spalled or otherwise damaged by the load testing shall be repaired. Such repair shall be done at no additional cost to the State. All anchors which fail a load test, or are otherwise damaged, shall be replaced at no additional cost to the State. All such replaced anchors shall be load tested.

NOTE: THIS LOAD TESTING IS DESIGNED TO BE NON-DESTRUCTIVE. LOADING SHALL BE STOPPED AS SOON AS THE TEST LOAD IS REACHED.

### 586-3.03 Removal of Rivets-Replacement with High Strength Bolts

**A. Paint Removal.** If the steel is painted, then prior to the beginning of any other work operations, the paint shall be removed for a minimum distance of 4 inches on each side of the centerline of work location. The paint removal work shall be done in accordance with the requirements of Section 574, *Structural Steel Painting: Localized*.

**B.** Unless otherwise noted in the contract documents, all bolts shall be the same diameter as the rivets they replace.

**C.** Rivets shall be removed by one of the following methods:

**SECTION 586 - MISCELLANEOUS STRUCTURAL RECONSTRUCTION**

- I.** Shear rivet head using a pneumatic rivet breaker (helldog), and drive out rivet shank with a pneumatic punch.
- 2.** Flame cut rivet head 0.079 inches above the base metal using a rivet scarfing tip, and drive out shank using a pneumatic punch. If punching will damage the base metal, the shank shall be removed by drilling.

**D.** High strength bolts shall be installed after the nicks, burrs and foreign substances that might interfere with seating of the bolt head and nut washers are removed. Light grinding may be required.

**E.** Installation and inspection of high strength bolts shall be done in accordance with the New York State Steel Construction Manual requirements.

**F.** If it becomes necessary to disconnect, or adjust, steel remaining as part of the structure to complete the work the Contractor shall obtain the Engineer's approval prior to performing disconnections or adjustments.

**G.** If the bolt will not fit the rivet hole, the hole may be reamed sufficiently to accommodate the bolt.

**H.** If the contract does not include an item(s) for cleaning, priming and painting of structural steel, cleaning and painting of the bolt and immediate surrounding area shall be done as part of this work. Cleaning and painting shall be done in accordance with the requirements of Section 574, *Structural Steel Painting: Localized*. All steel exposed by the cleaning operations shall be painted. However, at least 2 inches in every direction, measured from the washer's edge, shall be painted.

**586-3.04 Field Drill Holes in Existing Structural Steel**

- A.** The requirements of §586-3.03A *Paint Removal* shall apply.
- B.** The required hole diameter will be indicated on the contract documents.
- C.** No flame cutting, or flame drilling will be permitted.
- D.** All damage to existing steel shall be repaired by the Contractor, at no additional cost to the State.

**586-4 METHOD OF MEASUREMENT**

**586-4.01 Drilling and Grouting Bolts.** The quantity to be measured for payment will be the number of holes into which grout and bolts have been inserted.

**586-4.02 Removal of Rivets - Replacement with High Strength Bolts.** The quantity to be measured for payment will be the number of high strength bolts installed.

**586-4.03 Field Drill Holes in Existing Structural Steel.** The quantity to be measured for payment will be each hole drilled.

**586-5 BASIS OF PAYMENT****586-5.01 Drilling and Grouting Bolts**

- A.** The unit price bid per hole shall include the cost of all labor, materials, and equipment necessary

**SECTION 586 - MISCELLANEOUS STRUCTURAL RECONSTRUCTION**

to complete the work.

- B.** Payment will not be made for holes which do not contain both grout and bolts.
- C.** The cost of the bolts will be paid for under a separate, appropriate item.

**586-5.02 Removal of Rivets - Replacement with High Strength Bolts**

- A.** The unit price bid for each installed bolt shall include the cost of all labor, material and equipment necessary to complete the work including paint removal and when appropriate painting.
- B.** Payment will be made for each installed bolt regardless of whether or not a rivet had been removed from the location in question.

**586-5.03 Field Drill Holes in Existing Steel**

- A.** The unit price bid for each hole drilled shall include the cost of all labor, equipment and materials necessary to complete the work, including paint removal when required.
- B.** No extra compensation will be paid for holes drilled through different thicknesses, or through different numbers of plates.

*Payment will be made under:*

<b>Item No.</b>	<b>Item</b>	<b>Pay Unit</b>
586.02	Drilling and Grouting Bolts or Reinforcing Bars	Each
586.03	Drilling and Grouting Bolts or Reinforcing Bars with Pullout Test	Each
586.04	Drilling and Grouting Bolts, Overhead or Sustained Tension, with Pullout Test	Each
586.05	Removal of Rivets-Replacement with High Strength Bolts	Each
586.10	Field Drill Holes in Existing Structural Steel	Each



## TRUCK MOUNTED AND TRAILER MOUNTED IMPACT ATTENUATORS

Make the following changes to the Standard Specifications of May 1, 2008:

Page 563, §619-2.01 **Delete** Truck Mounted Impact Attenuator from the list and **Replace** it with the following:

Truck Mounted and Trailer Mounted Impact Attenuators 729-12

Page 564, **Delete** §619-2.02G Barrier/Shadow Vehicles and **Replace** it with the following:

- G. Barrier/Shadow Vehicles.** Barrier/Shadow vehicles shall weigh a minimum of 18,000 lb and shall be equipped with a Type B or Type C Arrow Panel. Ballast may be used to bring a lighter vehicle up to the indicated weight provided the ballast is securely contained within an enclosed body or otherwise securely fastened to the vehicle such that the ballast will not separate from the vehicle upon impact. Where the preconstruction posted speed limit is 55 mph or less, barrier/shadow vehicles shall be equipped with a Test Level-2 truck mounted or trailer mounted impact attenuator. Where the preconstruction posted speed limit is more than 55 mph, barrier/shadow vehicles shall be equipped with a Test Level-3 truck mounted or trailer mounted impact attenuator. Impact attenuators meeting the requirements of NCHRP 350 Test Level 3 are also acceptable as Test Level 2 devices.

Where a barrier vehicle remains stationary for extended periods of time, the Contractor may utilize a barrier trailer in lieu of a barrier vehicle. A barrier trailer is a tandem-axle trailer that may be detached from the tow vehicle and that meets barrier vehicle weight, arrow board, attenuator and placement distance requirements.

Page 573, **Delete** §619-3.02G Barrier/Shadow Vehicles and **Replace** it with the following:

**G. Barrier Vehicles/Barrier Trailers/Shadow Vehicles.**

**1. Barrier Vehicles.** The Contractor shall provide barrier vehicles to guide traffic and protect workers within stationary shoulder closures, lane closures and other stationary work zones in accordance with the contract documents.

When located in the taper of a lane closure and another arrow panel is not present, arrow panels on barrier vehicles shall be operated in the appropriate flashing arrow mode. For all other applications, arrow panels shall either display the four-corner flashing caution mode, or shall be turned off. Barrier vehicles should normally be unoccupied, with transmission in gear, parking brakes set and wheels straight, except when being moved. Barrier trailers should have parking brakes set and arrow panels shall be operated in the appropriate flashing arrow mode.

Barrier vehicles and barrier trailers shall be moved if necessary as the work progresses. The placement distance (distance a barrier vehicle or barrier trailer is located in advance of the first workers or hazard) shall be based on Table 619-2 *Placement Distance for Barrier/Shadow Vehicles*.

Table 619-2 PLACEMENT DISTANCE FOR BARRIER/SHADOW VEHICLES				
Posted Speed Limit (mph)	Placement Distance (ft)			
	Barrier Vehicles			
	18,000 lb		24,000 lb	
	Minimum	Maximum	Minimum	Maximum
> 55	100	200	100	200
45- 55	100	200	80	160
<45	80	160	50	100
	Shadow Vehicles			
> 55	230	325	180	280
50 - 55	180	280	150	250
≤ 45	100	200	100	200

**TRUCK MOUNTED AND TRAILER MOUNTED IMPACT ATTENUATORS**

**2. Shadow Vehicles.** For posted speed limits of 30 mph or higher, the Contractor shall provide shadow vehicles to guide traffic and protect workers conducting mobile or short duration work operations except where the travel lane is closed to traffic by traffic barriers or by channelizing devices., including, but not limited to, pavement marking application, pavement marking removal and sweeping

When located in an open travel lane of a multilane roadway, the shadow vehicle shall display the flashing arrow panel in the appropriate mode. When located in a travel lane closed by barrier or channelizing devices, on a shoulder, otherwise not in an open travel lane, or on a two-lane, two-way roadway, the arrow panel shall either display the four-corner flashing caution mode or be turned off.

The shadow vehicle shall be moved as necessary to keep pace with the work operations. The placement distance (distance the shadow vehicle is in advance of the first workers or hazard) shall be as shown in Table 619-2 *Placement Distance for Barrier/Shadow Vehicles*.

When slowly moving operations occupy a long distance of a travel lane not closed to traffic by barrier or channelizing devices, such that traffic may reenter the lane between work operations, the Contractor shall provide additional shadow vehicles for any gaps in the operation of 500 ft or more.

Page 1026 **Delete** §729-12 *Truck-Mounted Impact Attenuators* and **Replace** it with the following:

**729-12 TRUCK MOUNTED AND TRAILER MOUNTED IMPACT ATTENUATORS**

**SCOPE.** This specification covers the material and performance requirements for truck mounted impact attenuators or trailer mounted impact attenuators (TMIA) mounted on the rear of work vehicles and barrier trailers. Impact attenuators are defined by NCHRP 350 as a Category III device.

**MATERIALS REQUIREMENTS.** TMIA shall be NCHRP 350 approved. TMIA meeting the requirements of NCHRP 350 Test Level 3 are also acceptable as a Test Level 2 device. TMIA meeting the requirements of NCHRP 350 Test Level 2 are acceptable only as Test Level 2 devices. Approach ends of TMIA shall have impact attenuator markings in accordance with the MUTCD.

**BASIS OF APPROVAL.** Manufacturers or material suppliers desiring to have products considered for inclusion on the Approved List shall prepare and submit copies of drawings, specifications, test reports, and Federal Acceptance Letters to the Director of the Materials Bureau. The review process requires a minimum of 30 calendar days. Upon approval, the name of the manufacturer and the product will be placed on the Approved List.

**BASIS OF ACCEPTANCE.** Test Level 2 or Test Level 3 TMIA will be accepted on the basis of the product appearing on the Approved List and a material certification that the product is the same as the one appearing on the Approved List and that it conforms to this specification.

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Make the following changes to the Standard Specifications dated May 1, 2008:  
Page 609 - 614, **Delete** Section 625 in its entirety and **Replace** it with the following:

### SECTION 625 - SURVEY OPERATIONS

#### 625-1 DESCRIPTION

##### 625-1.01 General.

Some survey work is required be completed under the direction of a Land Surveyor or Professional Engineer in accordance with the professional license requirements contained in NYS Education Law.

##### 625-1.02 Survey Operations.

This work shall consist of providing all necessary survey work to establish, spatially position, and verify the locations of existing and proposed terrain features and measure quantities of items in accordance with the contract documents or as directed by the Engineer. This work includes but is not limited to the establishment, reestablishment or localization of primary and secondary control, the stakeout or layout of proposed features, the initialization, calibration and navigation of automated equipment operations, the location or verification of existing terrain or of constructed features, the verification of geospatial data for proposed construction work and the coordination and sharing of engineering data with the Department or other contract stakeholders.

##### 625-1.03 Right of Way Markers.

This work shall consist of furnishing, installing and certifying right of way markers at the positions described on the right of way appropriation maps, in accordance with the contract documents and the Standard Sheet.

##### 625-1.04 Permanent Survey Markers.

This work shall consist of furnishing, installing, and certifying permanent survey markers in accordance with the details shown on the appropriate Standard Sheet.

##### 625-1.05 Supplemental Site Survey.

This work shall consist of providing all necessary field survey and terrain mapping necessary to locate, spatially position, verify and digitally map the locations of existing above or below ground terrain features as described in the contract documents or as directed by the Engineer. The limits of this supplemental survey will be described in the contract documents.

##### 625-1.06 GPS Inspection Units.

This work shall consist of furnishing, configuring, installing, maintaining and removing Global Positioning System (GPS) units as needed for use by the Engineer and their inspection staff, including the training of the Engineer and their representatives on the use of the GPS units provided.

#### 625-2 MATERIALS

**625-2.01 General.** None specified.

**625-2.02 Survey Operations.** None specified.

**625-2.03 Right of Way Markers.**

**A. Concrete Right of Way Markers.**

Concrete ROW Markers shall conform to the requirements of §712-05 *Precast Concrete Right-of-Way Markers*, and shall be in accordance with the details shown on the Standard Sheet.

**B. Steel Pin and Cap Right of Way Markers.**

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Reinforcing steel used for the shank shall conform to ASTM A615, Grade 300 or Grade 420. It shall be epoxy coated for its entire length in accordance with §705-14 *Longitudinal Joint Ties* or §709-04 *Epoxy Coated Bar Reinforcement*.

The cap shall be aluminum or a corrosion resistant aluminum alloy. The cap shall weigh a minimum of 50 grams and fasten to the shank by means of threading or force fitting.

A commercial grade silicone sealant shall be used between the cap and the shank. Steel Pin and Cap-Type Markers shall be anchored into rock using Concrete Grouting Material meeting the requirements of §701-05 *Concrete Grouting Material*.

### **625-2.04 Permanent Survey Markers.**

The concrete shall meet the requirements of Class A Concrete in Section 501 *Portland Cement Concrete--General*, except that the requirements for inspection facilities, automated batching controls and recordation do not apply. The batching, mixing and curing methods and the inspection facilities shall meet the approval of the Department. The Contractor may submit for approval by Director, Materials Bureau, a mix at least equivalent to Class A Concrete.

### **625-2.05 Supplemental Site Survey.** None specified.

### **625-2.06 GPS Inspection Units.**

Each GPS Unit shall include all necessary components, communication devices, integrated antennae and receiver, controller and/or data collector, cables, software, operating manuals, attachments, and fastening hardware to meet the minimum requirements described below.

#### **A. All GPS Inspection Units.**

1. All GPS units provided for a single contract shall be of the same model and manufacturer; and shall include, and be licensed to operate, the same versions of GPS planning software, data collection software, navigation software, stakeout software and post processing software. All software provided (including firmware) shall be the most current available from the manufacturer at the time of delivery of the GPS units. GPS units should be of the same manufacturer as those used by the Contractor. GPS units shall not be more than 2 years old from the date of manufacturing to the time of delivery. To verify the age of the GPS units, the Contractor shall provide a dated copy of the manufacturer's receipt(s) for the purchase, lease or rental of the units.
2. GPS units shall include both standard USB cable and Bluetooth wireless technology for data transfer.
3. Data shall be capable of being copied onto or from a removable industry standard data storage card (eg: secure digital SD Card). Each GPS Unit shall include 2 data storage cards, each with a minimum capacity of 4 GB.
4. GPS units shall include the ability to import/export and display point and alignment data which is in XML format, and also import graphics files which are in DGN or DXF format.
5. GPS units shall have an internal, or modular, rechargeable battery system capable of operating a minimum of 8 hours (may include interchangeable batteries), including the battery charger.
6. GPS units shall include a hard or soft shell carry case, and all appropriate operation manuals.

#### **B. Survey Grade GPS Inspection Units.**

1. GPS units shall be equipped to receive Global Positioning System (GPS), GLONASS and GNSS position data.
2. GPS units shall be equipped to receive, and be capable of utilizing, Real Time Kinematics (RTK) correctional data (current version of RTCM format) through internet protocol as provided from the NYS Continuously Operating Reference System (NYS CORS) Network. This shall include all necessary communication devices, repeaters and systems, data service plans and communications to meet the minimum required accuracy and not exceed a 2 second latency at the rover. Whichever communication method is utilized by the Contractor to broadcast the NYS CORS RTK correctional data, the Contractor shall ensure that the RTK data shall be available at all locations across the entire contract site during all hours of construction and inspection operations.

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3. GPS units shall include the capability to “localize” both the horizontal and vertical control to local project monumentation (also known as calibrate), while utilizing RTK corrections from a reference network.
4. GPS units shall include either an integrated or modular communication device capable of receiving RTK correctional data to satisfy the requirement of using NYS CORS RTK corrections.
5. GPS units shall have the ability to display the number of satellites tracked at any one time, and indicate the accuracy quality of each measurement relative to the strength of signals, and the GDOP (Geometric Dilution of Precision).
6. GPS Unit shall include dual frequency receivers.
7. Minimum Required Kinematic Accuracy relative to primary project control (CORS): Horizontal: 0.033 ft + 1.0 ppm; Vertical: 0.065 ft + 1.0 ppm
8. All necessary hardware and software shall be included (including communication drivers) to connect the GPS unit to a Department provided Tablet PC and communicate/exchange positional data with Bentley™ OnSite software. Firmware used on the GPS unit shall be verified as interoperable with Bentley™ OnSite software. If the firmware cannot be verified as being interoperable with Bentley™ OnSite, the next older version may be used.
9. The data controller shall permit the user to program and store multiple configurations (also known as user preferences) prior to the actual field measurements. Configurations shall be capable of being stored and recalled in the field.
10. GPS units shall include one fixed height rover rod of 6.56 feet in length, one attachable bipod which is compatible with the rover rod, and one topo shoe.
11. A GPS unit set up to operate as a base station shall include all necessary additional cables, hardware, fasteners or accessories necessary to install it in a fixed semi-permanent location, . will not be considered as a rover unit, and therefore will not require a rover rod, a bi-pod, or a topo shoe.

### **C. Mapping Grade GPS Inspection Units.**

1. Minimum Required Kinematic Accuracy: less than 3.0 feet in real time.
2. GPS units shall also provide standard support for the Wide Area Augmentation System (WAAS) position correction services.

## **625-3 CONSTRUCTION DETAILS**

### **625-3.01 General.**

#### **A. Professional Responsibilities.**

The following types of Survey Operations shall be completed by the Contractor under the direction of a Land Surveyor. This requirement is directly or indirectly associated with the professional license requirements contained in Article 145 of the NYS Education Law.

1. Establishment, reestablishment or localization of primary or secondary control which shall be used for:
  - a. Establishing boundaries of new right of way appropriated for this contract.
  - b. Location of property or highway boundary markers.
  - c. Tie measurements to, or resetting of control points.
2. Location or resetting of existing highway and property boundary markers by reference ties to or from contract control to protect their integrity.
3. Establishment or certification of location of right of way markers and permanent survey markers.

The following types of Survey Operations shall be completed by the Contractor under the direction of either a Land Surveyor or Professional Engineer.

1. Establishment, reestablishment or localization of primary or secondary control which shall be used for:
  - a. Establishing location for horizontal or vertical roadway alignment.
  - b. Establishing location for the horizontal or vertical alignment of a structure.
  - c. Establishing or localizing reference base station for Global Positioning System (GPS) control work.

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- 2 Establishing new horizontal or vertical roadway alignment in the field from contract control either by conventional stakeout methods or by use of automated equipment operations.

### **B. Survey/Engineering Geospatial Data.**

All establishments or reestablishment of contract primary or secondary control, and the survey collection of terrain data shall be performed in accordance with the standards and procedures required in the Department's *Land Surveying Standards and Procedures Manual*. The Contractor shall incorporate the NYS CORS network into contract control to facilitate the use of GPS survey within the site and on the same datum by other project stakeholders, or to align with other adjacent projects.

When the Department provides electronic copies of engineering data to the Contractor, files should follow the standard file naming conventions listed in Appendix 14 of the Department's *Project Development Manual*.

**1. Existing Terrain Data.** When an existing digital terrain model was developed during design and provided for construction purposes, and possibly updated during construction by supplemental survey, the Department and Contractor shall use that information as a basis from which to develop contract pay item quantities. The Contractor shall consider all existing terrain data supplied by the Department as being within acceptable tolerances, except where changes or additions have been approved by the Engineer. If the Contractor questions the accuracy of the existing terrain data provided, the Contractor may verify any or all portion(s) of the existing terrain model, at no additional cost to the State, in accordance with §105-10 *Survey and Stakeout*. All exceptions or discrepancies found with the supplied existing terrain data shall be brought to the attention of the Engineer, in writing, and terrain data modifications shall be mutually agreed upon and shared with both parties prior to beginning construction operations within those areas being modified. Changes to existing terrain data will not be accepted by the Department where existing terrain is verified to be within Departmental accepted positional tolerances in accordance with the Department's *Land Surveying Standards and Procedures Manual*, or after the Contractor has disturbed the existing ground surface.

**2. Proposed Data.** When proposed digital terrain models (or surfaces), proposed alignments and proposed graphics were developed during design and provided for construction purposes, or revised during construction due to site changes or redesign, the Department and Contractor shall use that information from which to position and compute applicable contract pay item quantities and to field verify positional locations of constructed items. When the Contractor and Department agree to utilize the proposed digital terrain data (surface), alignments or graphics the Contractor shall first review its consistency with all other contract information, and review for any perceived physical conflicts or inconsistencies of information prior to using the data in the field for any construction purpose. All exceptions or discrepancies with the supplied data shall be brought to the attention of the Engineer, in writing, and terrain data, alignment or graphics modifications shall be approved by the Engineer prior to beginning construction operations within those areas being modified. All approved changes shall be shared electronically with both the Department and the Contractor, and both parties shall acknowledge acceptance of such changes before beginning the work.

When proposed digital terrain model (or surfaces), alignments or graphics are not provided by the Department, the Contractor may choose to develop their own terrain model surfaces from the contract plans to facilitate their use of Automated Machine Guidance, at no additional cost to the State. A request by the Contractor to use Automated Machine Guidance shall be made as part of the Contract Control Plan. The Contractor developed terrain model surfaces shall be shared with the Engineer in a Department accepted format prior to beginning construction operations. Generation of proposed terrain model surfaces or other electronic engineering data does not constitute a redesign of the project, and the Contractor retains all responsibility to complete the work in accordance with the engineering intent conveyed in the contract documents unless otherwise agreed to in writing by the Engineer.

### **625-3.02 Survey Operations.**

All Survey Operations shall follow either Traditional *Survey Stakeout* or Automated Stakeout and *Automated Machine Guidance Operations*, or a combination of both, for the establishment, positioning, equipment guidance or

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verification of construction items. The proposed method shall be approved by the Engineer as part of the Contract Control Plan prior to beginning any field construction operations. Both methods include the same basic requirements that: (1) both parties (Contractor and Department) utilize the same contract control, the same existing terrain data, and the same proposed feature data; (2) both parties utilize the same accuracy and tolerance limits; and (3) both parties utilize equivalent survey verification techniques to ensure that field features are constructed as proposed.

The Contractor shall establish the center line of bearings for all bridge abutments and piers, by setting offset hubs or reference points, so located and protected to ensure they remain undisturbed until such time as they are no longer needed. The Contractor shall mark the location of anchor bolts to be installed, establish the elevation of bearing surfaces and check bearing plates to ensure installation at their proper elevation. Before the erection of structural steel or concrete beams the Contractor shall verify the locations, both vertically and horizontally, of all bearings and the distances between associated bearings. Control used to establish center line of bearings shall be included in the contract control plan.

On contracts which include proposed and existing roadway alignments and profiles, the Contractor shall verify the roadway tie-in locations of where existing and proposed alignments meet prior to beginning construction operations and report the results to the Engineer. This requirement is intended to verify that no changes have occurred to the existing roadway and that the proposed design is buildable as designed.

### **A. Contract Control Plan.**

The Contractor shall develop and submit a Contract Control Plan for all contracts which include the contract pay item for Survey Operations. Contract control includes all statewide or local primary and secondary horizontal and vertical control which will be used for the geospatial positioning of work items. Upon the Contractor's completion of initial survey reconnaissance and control verification, but prior to beginning primary field operations, the Contractor shall submit a Contract Control Plan document which is to be signed and sealed by a Land Surveyor or Professional Engineer in accordance with §625-3.01.A *Professional Responsibilities*, for acceptance by the Engineer. The Contract Control Plan shall include the below listed required control information and follow the acceptance procedure.

All revisions or additions to contract control for the purpose of stakeout or layout of proposed work items shall be provided in writing to the Engineer prior to beginning that revised portion of stakeout or layout work.

#### **1. Acceptance Procedure.**

- a. The Contractor shall document required information and submit electronically to the Engineer at least 10 work days prior to beginning field operations.
- b. The Engineer will coordinate review with the Regional Land Surveyor and provide comments.
- c. Upon acceptance of the procedure by the Engineer, the Contractor shall submit 2 signed and sealed copies to the Engineer.

#### **2. Control Information.**

The Contractor shall list the following control information (tabular format is acceptable):

- a. All contract control shown in the contract documents or in the Survey Control Report. Note: The NYS CORS Network provides primary control for most Department contracts.
- b. The following elements shall be submitted for all contract control points or benchmarks:
  - (1) Recovered in the field and did it appear undisturbed?
  - (2) Contract indicated coordinate or elevation.
  - (3) Field determined coordinate or elevation.
  - (4) Contractor adjusted coordinate or elevation, if necessary.
  - (5) Point or benchmark intended to be used for construction purposes.
- c. Adjustment method is used to balance or adjust the control (ex: Compass Rule for Baseline or Calibration Report for GPS, etc). Attach a copy of the adjustment/calibration report.
- d. Control network diagram (drawn to a legible scale) with roadways indicated.
- e. New York State Plane Coordinate System (NYSPCS) Zone utilized.
- f. Horizontal Datum used.
- g. Vertical Datum used.

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- h. Combined Factor used to account for the ellipsoidal reduction factor and the grid scale factor.
- i. Additional (new) control is anticipated to be needed and where will they be set?
- j. When a GPS base station(s) is utilized on a project either for inspection or stakeout, provide the determined coordinate and elevation value of the station, and the datum differential from that localized value to a NYS CORS determined value.

### **3. Methods or Procedures.**

The Contractor shall document and provide the following survey information on methods or procedures to be used:

- a. Survey method used to verify the control (ex: Total Station, GPS/RTK, Auto Level, etc).
- b. Survey method(s) used to stakeout which types of proposed features.
- c. Survey method(s) used to stakeout proposed ROW Markers.
- d. Survey method used for stakeout of proposed bridge structures (if applicable). How will control be set up and maintained around the bridge(s)?
- e. Proposed manufacturer, model and software version for GPS Inspection Units.
- f. Automated Machine Guidance (AMG) proposed for use on this contract.
- g. Type and frequency of quality control measures included to maintain the proper calibration and adjustment of the AMG systems.
- h. If GPS will be used for stakeout or for AMG, will the NYS CORS Network be used as its reference network or will base station(s) be used?
- i. If a base station is to be used, describe the mounting location, attachment technique, and instrumental protection included which ensures a sound and reliable reference station will be provided.

### **B. Traditional Survey Stakeout.**

The Contractor shall field locate all features to be constructed from survey control points which are identified in the Contract Control Plan. Any error, apparent discrepancy or absence in the data shown or required to appropriately accomplish the stakeout survey shall be referred to the Engineer immediately for interpretation when such is observed or required.

The Contractor shall place two offset stakes or references points along the center line at maximum intervals of 50 feet and at such intermediate locations as required to determine location and direction. From computations and measurements made by the Contractor, these stakes shall be clearly and legibly marked with the center line station number, offset and cut or fill from which the establishment of the centerline location and elevation can be determined. If markings become illegible for any reason the markings shall be restored by the Contractor. The Contractor shall locate and place all cut, fill, slope, fine grade, or other stakes and points for the proper progress of the work with a maximum station spacing of 50 feet. All control points shall be properly protected and flagged for easy identification.

The Contractor shall be responsible for the accuracy of the work and shall maintain all applicable reference points, stakes, etc. Damaged or destroyed reference points or bench marks made inaccessible by the progress of the construction shall be replaced or transferred by the Contractor. All control points shall be referenced by ties (4 minimum) to specific points on acceptable objects and recorded. Any alterations or revisions in the ties shall be so noted and the information furnished to the Engineer. All stakeout survey work related to highway control shall be referenced to the control line (or survey baseline) shown in the contract documents. Computations and survey notes necessary to establish the position of the work from control points, shall be made and maintained in a neat, legible and acceptable format by the Contractor. Computations, survey notes and other survey information shall be made available to the Engineer within 3 work days from the request. The Engineer may check all or any portion of the stakeout survey work or notes made by the Contractor. Such checking by the Engineer shall not relieve the Contractor of any responsibilities for the accuracy or completeness of the work.

### **C. Automated Stakeout and Automated Machine Guidance Operations.**

Should the Contractor choose automated methods for the establishment, layout, measurement, equipment guidance or verification of work to be constructed, they shall submit their proposed automated methods including quality control measures as part of their contract control plan for acceptance by the Engineer. When



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utilizing these methods, all horizontal and vertical survey control, roadway alignment control, existing terrain data and proposed design engineering data shall be shared/exchanged electronically and kept current between the Contractor and the Engineer. All original version files of electronic contract data shall be maintained and stored by the Department. Prior to beginning field operations, the Contractor and Engineer shall mutually determine acceptable uses of and procedures for the technology being used, and how data can be exchanged for use in stakeout, automated machine operations, positional verification, quantity measurements and calculations. All record copies of engineering data shall be stored and shared in Department accepted standard formats, and shall be derived primarily from the original electronic data, when provided by the Department.

Automated survey operations have a high reliance on accurate control networks from which to make measurements, establish positions, and verify geospatial locations of features. Therefore, a strong contract control network in the field which is consistent with the project control used during the design of the contract is essential to the successful use of these technologies with the proposed digital terrain model and alignments. Consistent and well designed site calibration (localization) for all automated machine guidance, as described above under *Contract Control Plan*, is required to ensure the quality of the contract deliverables. The Contract Control Plan is intended to document which local horizontal and vertical control will be used for calibration during construction operations and how that calibration or adjustment will be maintained along the entire contract length. Continued incorporation of NYS CORS Network is essential to maintaining the integrity of positional locations and elevations of features.

The Engineer may perform quality assurance verifications of feature positions at any time during the contract. Dimensional tolerances shall hold a higher order of precedence than positional tolerances, but both may require verification. Quality assurance activities by the Engineer will not relieve the Contractor of any responsibilities for the quality control of the accuracy or completeness of the work.

The Department's verification of the positional locations of features, calculation and merging of supplemental terrain data surfaces, and the measurement and calculation for quantity payments will be performed using Department standard software. Both the Contractor and the Department shall utilize the following standards: (1) All terrain data collected for the purpose of being used for or merged with Department provided terrain data for the calculation of pay quantities shall be delivered in a format and correctly display in accordance with the current Departmental CADD Standards. (2) The Department will maintain record copies of electronic data files which will be available to the Contractor using the Department's designated file management system or other method. This will ensure that both parties utilize the same credible data from which to establish locations and measure quantities. The Department will provide all available CADD resource files for use by the Contractor.

The Contractor may choose to introduce an additional new automated survey method or technology which involves a new technique for positioning features, measuring quantities, or verifying constructed locations. The quality and accuracy of this data produced by this method shall be demonstrated to the Engineer, for acceptance, by a comparison of this method to previously accepted techniques over a mutually agreed upon portion of the work. The new technology shall meet or exceed the quality and accuracy results provided by previously accepted techniques, and the Engineer shall make the final determination as to the acceptability of its use based on the resulting performance, cost savings, safety and effectiveness of the operation. Previous uses of this same method on other contracts or by other contractors are not acceptable evidence of a technology's viability, due to inherent variations in operator's experience levels, data availability, changing field conditions and differing technologies.

### 625-3.03 Right of Way Markers.

The Contractor shall verify with the Engineer that it has the most current vested Right of Way Acquisition Maps to determine the geospatial positions of all proposed right of way markers. Right of way markers are indicated in the contract for approximate locations and quantities, and shall not be positioned according to the contract information, but rather by the positions shown for the equivalent points on the ROW Maps.

Right of way marker locations shall be determined under the direction of a Land Surveyor from a closed traverse or GPS network which is included in the contract control plan and in accordance with Federal Geographic Data Committee (FGCC) C2-II, Second-Order, Class II (1 part in 20,000) accuracy, ensuring a local accuracy of 0.065 ft as described in the Department's *Land Surveying Standards and Procedures Manual*.

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The Contractor shall install right of way markers at the station/offset positions specified on the vested Right of Way Acquisition Maps in accordance with the Standard Sheets to within an absolute positional tolerance of 0.065 ft relative to the primary project control network.

The Land Surveyor shall certify the as-built location of each installed right of way marker on certification forms provided by the Engineer, including contract information, and control line station and offset (proposed and as-built) to the marker. The record location of all right of way markers shall be recorded to the nearest 0.01 ft and reflect as-built coordinates from a closed traverse or GPS network which is included in the contract control plan and in accordance with FGCC C2-II, Second-Order, Class II (1 part in 20,000) accuracy.

Prior to placing the cap on a steel pin right of way marker, the cap shall be filled 2/3 full of silicone sealant and then fastened to the bar by threading or by force fit. During the driving operation for the steel pin right of way marker, the lettering on the cap shall be protected by the use of a metal sleeve or cushion block. The marker shall be driven so that the cap is flush with the ground surface.

### 625-3.04 Permanent Survey Markers.

The Contractor shall install permanent survey markers in accordance with the standard sheet at locations described in the contract documents and approved by the Engineer prior to installation. The Engineer will provide the Contractor with the sequential numbering required on the permanent survey marker caps in coordination with the Regional Land Surveyor.

The Contractor shall provide the as-built location of each installed permanent survey marker on certification forms provided by the Engineer, including contract information, as-built NYSPCS values, control line and centerline station and offset to the marker, distance and direction to adjacent markers, the elevation of the marker, and a sketch which shows the relative positions to the control line points, four physical ties to the markers, and a north arrow. The certification form shall be sealed and signed by a licensed Land Surveyor. The record location of all permanent survey markers shall be recorded to the nearest 0.01 ft and reflect as-built coordinates from a closed traverse or GPS network which is included in the contract control plan and in accordance with FGCC C2-II, Second-Order, Class II (1 part in 20,000) accuracy as described in the Department's "*Land Surveying Standards and Procedures Manual*."

### 625-3.05 Supplemental Site Survey.

The Contractor shall perform supplemental site survey work in accordance with §625-3.01 *General* and §625-3.02. *Survey Operations*. The limits of the survey and mapping and the need for property line or right of way determination shall be as described in the Special Note entitled *Supplemental Site Survey Requirements*. Changes to the contract established limits by the Engineer shall be considered changes to the scope of work. The work shall include:

1. The Engineer shall determine what level of detailed information may need to be added to the Contract Control Plan for a supplemental site survey. Significant additional requirements will be considered extra work.
2. For new locations, a minimum of 3 inter-visible horizontal control points and 2 benchmarks shall be set at each site.
3. All survey control and terrain data collection shall be performed in accordance with the standards and procedures required in the Department's *Land Surveying Standards and Procedures Manual*.
4. Survey shall include all readily identifiable surface and subsurface utilities, including, but not limited to drainage, sanitary, water supply, gas, electric and telephone. The Contractor shall contact the appropriate one call center to identify all underground utilities so they can be marked in the field at each site prior to survey.
5. If property or right of way markers are found inside of or within 30 ft of the survey limits, they shall be located and described as part of the survey.
6. For traffic signal intersection work, elevations of above-ground utilities at the poles and at sag points shall be provided for primary and secondary electric lines, telephone lines and cable television lines. Utility poles shall be identified, including pole numbers. The next pole by number, and next manhole or valve. Sign inventory shall include only a type designation (e.g. stop sign, no parking sign, etc.) without MUTCD code, or a brief description of a private sign.
7. For underground utility surveys, the horizontal positions and vertical elevations of all exposed public and private utilities within the described limits shall be located, mapped and appropriately identified by the

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Contractor according to the utility's identification. Horizontal positions and vertical elevations shall be determined from project control to within 2 inches of its absolute location. Linear utilities shall be located at all bend or angle points, junctions or termini, and at a spacing of no more than 50 feet.

8. Copies of original survey field data, tie diagrams, and control diagrams shall be provided in Department accepted formats.

9. All terrain mapping deliverables (DGN & DTM) shall conform to the requirements included in Chapter 20 and 22 of the Department's *Highway Design Manual*.

10. File naming convention shall conform to standards listed in Appendix 14 of the Department's *Project Development Manual*.

### 625-3.06 GPS Inspection Units.

The Contractor shall furnish, configure, install, maintain and remove the GPS units, and provide the Engineer and/or their representatives with training on the operation of the GPS units. The Contractor shall ensure all GPS units are fully operational and training has been provided before construction begins.

All projects shall utilize the NYS CORS as the spatial reference datum network from which RTK corrections are derived. The Contractor shall choose which communication technique and devices will be used which will insure the consistent and reliable delivery of RTK correctional data from the NYS CORS to the GPS units. When geographic location or lack of a reliable communications network prohibits the use of the NYS CORS, the Engineer may approve the use of a Survey Grade GPS Inspection unit as a base station in place of the NYS CORS, which will be paid for separately. The Contractor shall semi-permanently mount the base station in a stable and secure location where it shall not be disturbed by construction activities nor be easily damaged by vandalism and where it shall be capable of providing radio signal coverage over the entire contract area. If the base station cannot broadcast a signal that covers the entire site, the Contractor shall provide adequate repeater radios or other communications. A GPS unit installed as a base station for inspection operations shall only be moved with the approval of the Engineer.

The GPS units shall be maintained and remain in service until either: (a) a maximum of one week after the Engineer requests its removal in writing, or (b) the State relinquishes the Engineer's Field Office. The Contractor shall maintain all GPS units and software in good working condition and shall provide replacement due to breakdown, damage, or theft within 2 work days. The Contractor shall retain ownership of all supplied GPS units at the end of the contract.

#### A. GPS Training Provisions.

1. For all GPS units, the Engineer and/or their representatives shall be provided with a minimum of one 8 hour training session for GPS localization/calibration of the contract site.
2. For all Survey Grade GPS units, the Engineer and/or their representatives shall be provided with a minimum of two separate 8 hour minimum training sessions on the use and operation of the GPS units during the first year of the contract. One of these two sessions shall occur within one week of delivery of GPS units to the site. The second of the two classes shall occur upon the request of the Engineer. One additional 8 hour minimum training session shall be provided during each additional contract year that the GPS units are in service.
3. For all Mapping Grade GPS units, the Engineer and/or their representatives shall be provided with a minimum of one training session during the first year of the contract, being at least 8 hours in length, and to occur within one week of delivery of GPS units to the site. This training shall be separate from the Survey Grade GPS Unit training.
4. All training shall be performed by a manufacturer-verified trainer who is approved by the Engineer. The training shall occur at the Engineer's Field Office or at a location agreed to by the Engineer.

## 625-4 METHOD OF MEASUREMENT

**625-4.01 General.** (Vacant)

**625-4.02 Survey Operations.** This work will be measured on a lump sum basis.

## SURVEY OPERATIONS

**625-4.03 Right of Way Markers.** The quantity to be measured for payment will be the number of right of way markers installed.

**625-4.04 Permanent Survey Markers.** The quantity to be measured for payment will be the number of permanent survey markers installed.

**625-4.05 Supplemental Site Survey.** This work will be measured on a lump sum basis for each site location.

**625-4.06 GPS Inspection Units.** The quantity to be measured for payment will be the number of GPS Inspection units provided.

### 625-5 BASIS OF PAYMENT

**625-5.01 General.** (Vacant)

**625-5.02 Survey Operations.** The price bid shall include the cost of furnishing all labor, materials and equipment necessary to satisfactorily complete the work, including preparation of the contract control plan. Progress payments will be made in proportion to the amount of work completed.

**625-5.03 Right of Way Markers.** The unit price bid shall include the cost of furnishing all labor, materials, and equipment necessary to satisfactorily complete the work. Payment will be made after the complete and proper installation of the marker, receipt of the certification form by the Engineer, and after approval of the certification by the Regional Land Surveyor.

**625-5.04 Permanent Survey Markers.** The unit price bid shall include the cost of furnishing all labor, materials, and equipment necessary to satisfactorily complete the work. Payment will be made after the complete and proper installation of the marker, receipt of the certification form by the Engineer, and after approval of the certification by the Regional Land Surveyor.

**625-5.05 Supplemental Site Survey.** The price bid shall include the cost of furnishing all labor, materials and equipment necessary to satisfactorily complete the work. Payment will be made upon the satisfactory submission of the completed and certified mapping deliverables. Substantive additions to the work limits described in the contract will be considered extra work.

**625-5.06 GPS Inspection Units.** The unit price bid shall include the cost of labor, materials and equipment necessary to satisfactorily complete the work, including the cost of the required training and necessary maintenance.

***Payment will be made under:***

<b>Item No.</b>	<b>Item</b>	<b>Pay Unit</b>
625.01	Survey Operations	Lump Sum
625.03	Concrete Right of Way Markers Type H (High)	Each
625.04	Concrete Right of Way Markers Type L (Low)	Each
625.05	Steel Pin and Cap Right of Way Markers	Each
625.06	Permanent Survey Markers	Each
625.07nnnn	Supplemental Site Survey	Lump Sum
625.11nnnn	Survey Grade GPS Inspection Unit	Each
625.12nnnn	Mapping Grade GPS Inspection Unit	Each

**OVERHEAD SIGN STRUCTURE FABRICATION AND  
CASTINGS, FORGINGS AND METALS**

Make the following change to Standard Specifications Construction and Materials of May 1, 2008:

Page 646, *Delete* the following from Overhead Sign Structures, Section 644-3.02 Fabrication:  
“,inspection, transportation and erection”

Make the following change to Standard Specifications Construction and Materials of May 1, 2008:

Page 910-921, **Replace** Section 715 – Castings, Forgings, and Metals in its entirety with the following:

**SECTION 715 - CASTINGS, FORGINGS AND METALS****715-01 STRUCTURAL STEEL**

**SCOPE.** This specification covers structural steels used in bridge construction that have a minimum specified yield point of 50 ksi, or less. Steel ordered under this specification may be subject to stress in any direction; longitudinal, transverse and/or through-thickness.

**MATERIAL REQUIREMENTS.** The manufacture, testing, mill inspection and delivery of structural steel shall comply with the requirements of the applicable ASTM Specifications except as modified herein.

Requirements for shop inspection of plates and shapes, and provisions for rejection or shop repair of plates and shapes because of rejectable surface or internal discontinuities, are described in the New York State Steel Construction Manual (SCM).

**Steels to be Furnished.** The contract documents will indicate, by ASTM designation, the steel to be used in specific portions of the structure. If the ASTM designation is not indicated in the contract documents, the type to be furnished shall meet the requirements of ASTM 709-36.

All structural steel plates and shapes used in areas subject to tensile stress as designated on the plans, or as listed herein, shall be furnished to minimum Charpy V-Notch toughness requirements. Structural Steel furnished to minimum notch toughness requirements shall include but not necessarily be limited to the following:

- Tension flanges and webs of girders, floorbeams and stringers, floorbeam and stringer connection angles, splice plates and lateral gusset plates welded to members in areas subject to tensile stress.
- Curved girder diaphragms
- Truss floorbeam, stringer, and sleeper, tension flanges and webs; floorbeam and stringer connection angles; cantilever brackets, splice plates; vertical gusset plates; top and bottom lateral bracing; sway frames; and end portal frames.
- Repair and/or reinforcement steel subject to tensile stress.
- Plates and shapes of specified thickness subject to design tensile stress used in sign structures. Refer to §644-2.01.

**TESTS.** Physical (mechanical) tests and chemical analysis shall be conducted by the steel manufacturer.

The method of sampling, preparing test specimens and testing shall be in accordance with the applicable ASTM Designation, except as modified herein.

**Charpy V-Notch Impact Test.** When the provisions of these specifications require that steel be furnished with specified impact properties, and the steel is not A fracture-critical® as defined in Section 9 of the SCM, the steel will be accepted on the basis of heat-lot qualification tests as described herein. The tests shall be performed as described for V-Notch test specimens under the heading, A Charpy Impact Testing® of ASTM Designation A370. Full size (10 mm x 10 mm) specimens shall be used whenever thickness permits. When plate thickness requires that subsize

## OVERHEAD SIGN STRUCTURE FABRICATION AND CASTINGS, FORGINGS AND METALS

specimens be used, the specimens shall be 10 mm x 7.5 mm, or 10 mm x 5 mm. The largest possible specimens shall be used in each case.

When steel thickness is 1 inch or greater, Charpy specimens shall be taken midway between the center and the surface of the plate.

The manufacturer shall conduct and report the results of Charpy V-Notch impact tests to the Engineer. For heat qualification, sampling and testing shall be in conformance with ASTM A673 using the AH<sup>®</sup> testing frequency.

For any heat to qualify, the average energy, as defined in ASTM A370, absorbed by a full-size specimen shall not be less than that shown for the type of steel in the Table 715-01-1.

If test specimens fail to meet the heat qualification impact requirements, the plate thickness represented by the failed specimens will be rejected. The producer may test specimens from the next thinner material proposed to be furnished from the same heat and if they meet specification requirements, the heat will be considered qualified for those thicknesses equal to or less than that tested and found acceptable in the retest.

Any thickness that fails to qualify in the as-rolled condition may be normalized and retested provided that all required mechanical tests are remade on the normalized material. Those thicknesses that passed the test above described in the as-rolled condition need not be normalized even though they were rolled from the same heat of steel.

ASTM DESIGNATION	THICKNESS	ENERGY
A709-36, A242, A992 (welded)	$t \leq 4$ in.	15 ft-lbs @ 40°F
A709-50, 50S, 50W (welded)	$t \leq 2$ in.	15 ft-lbs @ 40°F
A709-50, 50S, 50W (welded)	$2 \text{ in.} < t \leq 4$ in.	20 ft-lbs @ 40°F
A709-36, A242, A992 (mechanically fastened)	$t \leq 4$ in.	15 ft-lbs @ 40°F
A709-50, 50S, 50W (mechanically fastened)	$t \leq 4$ in.	15 ft-lbs @ 40°F
Sign Structure steel plates and shapes greater than 1/2 inch thick <sup>2</sup>		20 ft-lbs @ 40°F

**NOTE:**

1. If the yield strength of the material exceeds 65 ksi, the temperature for the Charpy V-Notch tests for acceptability shall be reduced by 15°F for each increment of 10 ksi above 65 ksi.
2. Samples shall be taken after galvanizing.

If the plate thickness requires that subsize specimens be used, Table 715-01-2 shall be used to find the equivalent absorbed energy for the full size specimen:

Impact tests for fracture-critical members shall be as described in section 9 of the SCM.

Full Size (10 x 10 mm)	3/4 Size (10 x 7.5 mm)	1/2 Size (10 x 5 mm)
20	15	10
15	11	8
13	10	6
12	9	6
10	8	5
7	5	4

**BASIS OF ACCEPTANCE.** A certified copy of test results of chemical analyses and physical (mechanical) tests required shall be furnished for all steel. These test data shall be given to the shop inspector for submittal to the Deputy Chief Engineer (Structures) with the final inspection report. When steel is furnished under an item which

## OVERHEAD SIGN STRUCTURE FABRICATION AND CASTINGS, FORGINGS AND METALS

does not require shop inspection, these data shall be submitted to the Engineer who will perform the visual inspection required by this specification.

A Material Certification of the results of chemical and physical (mechanical) tests conducted will be interpreted to mean that the manufacturer has tested the product, and has found both materials and workmanship to conform to the specification designation listed on the report of physical and chemical test results that are certified to be accurate. Workmanship as defined herein shall include dimensional accuracy, surface finish, temper and any other physical and/or mechanical property which may be affected by manufacturing procedures. *Buy America Requirements Apply.*

### 715-02 STEEL CASTINGS

**SCOPE.** This specification covers the material requirements for steel casting for highway bridges.

**GENERAL.** Steel castings shall conform to the requirements of ASTM A27. Unless otherwise specified, all steel castings shall be Grade 70-40, Class 1.

### MATERIAL REQUIREMENTS

**Fracture.** Test specimens shall show a fracture having a silky or fine granular structure throughout.

**Testing.** Additional supplemental testing, as noted in ASTM A27, may be required by the contract documents.

**Structural Defects.** Steel castings shall be true to pattern in form and dimensions, without sharp unfilleted angles, or corners, and shall be free of pouring faults, sponginess, cracks, blow holes and other defects in positions affecting their strength and value for the service intended.

Blow holes appearing upon finished castings shall be so located that a straight line laid in any direction will not cut a total length of cavity greater than 1 inch in any 12 inches, nor shall any single blow hole exceed 1 inch in any dimension or have an area greater than 1/2 square inch. Blow holes shall not have a depth injuriously affecting the strength of the casting as determined by the Deputy Chief Engineer (Structures). Minor defects which do not impair the strength may, with the approval of the Deputy Chief Engineer (Structures), be welded by an approved process. The defects shall be removed to solid metal by drilling, grinding, or air-carbon arc gouging followed by grinding. After welding, the castings shall be heat treated again if required by the approved repair procedure.

Castings which have been, or are being, welded without prior approval of the repair welding procedure will be rejected.

Large castings may be subjected to non-destructive tests if required by the Contract Documents.

**BASIS OF ACCEPTANCE.** Acceptance will be based upon shop inspection at the manufacturing plant by representatives of the Department, or on the basis of inspection by the Engineer. Certified copies of the results of the chemical and physical tests shall be submitted as required under the provisions of ABasis of Acceptance@ in 715-01, Structural Steel. *Buy America Requirements Apply.*

### 715-03 ALUMINUM CASTINGS

**SCOPE.** This specification covers the requirements for various aluminum alloys and shapes.

**GENERAL.** Aluminum castings shall conform to the requirements of ASTM Specifications as shown in the following table, and as modified herein and by the plans and specifications.

<b>TABLE 715-03 ALUMINUM CASTINGS</b>			
<b>Commercial Specification Alloy</b>	<b>ASTM Alloy &amp; Temper</b>	<b>ASTM Specification</b>	<b>Product</b>

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& Temper			
B443.0-F	S5A-F	B108	Permanent Mold Castings
B443.0-F	S5A-F	B26	Sand Castings
A356.0(modified) <sup>1</sup>	SG 70-B(modified) <sup>1</sup>	B108	Permanent Mold Castings
356.0-T6	SG 70A-T6	B26	Sand Castings
356.0-F	SG 70A-F	B26	Sand Castings
360.0	SG 100-B	B85	Die Castings
A712.0	ZG 61-B	B26	Sand Castings

**NOTE:** 1. Where this material is required, castings shall be solution treated and aged to produce the following mechanical properties (Yield strength need not be determined unless ordered by the Deputy Chief Engineer (Technical Services)):

Ultimate Tensile Strength	25 ksi min.
Yield Strength (0.2 percent offset)	18 ksi min.
Elongation (measured with gage length of four times the diameter of the specimen.)	6 percent min.

### MATERIAL REQUIREMENTS

**Quality.** The castings shall be of uniform quality and condition, free from cracks, blow holes, porous places, hard spots, or shrinkage defects which affect the suitability of the castings for their intended use. Before inspection the castings shall be smooth and clean.

**Heat Treatment.** Casting shall be heat treated in such a manner as to produce material which will conform to the properties specified herein with the approved uniformity.

Castings to be used as bridge railing posts shall be produced under radiographic control. This shall consist of radiographic examination of castings until proper foundry technique, which will produce castings consistently free from harmful internal defects, is established for each mold. Production castings shall be examined as necessary to ensure maintenance of satisfactory quality.

Tension test specimens shall be machined from integrally cast test coupons extending sufficiently from one side of the base of the posts to obtain a 0.35 inch diameter test specimen as defined in Methods of Tension Testing of Metallic Materials@ ASTM E8, with the exception that the radii at the ends of the reduced section shall not be less than 1/2 inch.

The method of test and determination of tensile properties shall be in accordance with ASTM E8. A minimum of one percent of the posts in any lot, but not less than one, shall be sampled for tensile testing. For the purpose of sampling, a lot shall consist of not more than 1000 pounds of clean castings when produced from a batch type furnace charged with one heat of ingot of known analysis or not more than 1 ton of clean castings when produced from one continuous furnace in not more than 8 consecutive hours.

If the results of any tensile test do not conform to the requirements prescribed, two additional tests shall be taken from the same group of castings, and the average of the three tests must meet the requirements.

**BASIS OF ACCEPTANCE.** This material is accepted on the basis of a Material Certification as described in ABasis of Acceptance,@ 715-01 except as follows, when the material is used in:

**Bridge Railings.** Accepted on the basis of shop inspection by the Department in accordance with Department directives.

**Fencing.** Accepted on the basis of samples secured in accordance with Department directives.

### 715-04 WROUGHT ALUMINUM



## OVERHEAD SIGN STRUCTURE FABRICATION AND CASTINGS, FORGINGS AND METALS

**SCOPE.** This specification covers the requirements for various aluminum alloys and shapes.

### MATERIAL REQUIREMENTS

**Physical & Chemical Requirements.** Wrought aluminum shall conform to the requirements of ASTM specifications as shown in Table 715-04 and as modified herein and by the plans and specifications.

Each piece shall be marked with the manufacturer's name or trade mark and with alloy and temper designations in the manner described in the pertinent ASTM specifications.

When a clad material is specified, it shall be clad on both sides unless specified otherwise.

**Mechanical Properties.** When alloy 6061-T94 is required by the plans or specifications, it shall be defined as that temper which will produce in the wire the following mechanical properties after weaving:

- minimum ultimate tensile strength: 54 ksi
- minimum tensile yield strength: 47 ksi

**BASIS OF ACCEPTANCE.** This material will be accepted on the basis of a Material Certification except when this material is used in Bridge Railing when it will be accepted on the basis of shop inspection by the Department in accordance with Department directives, or Fencing when it will be accepted on the basis of samples received in accordance with Departmental directives.

<b>TABLE 715-04 PHYSICAL AND CHEMICAL REQUIREMENTS</b>		
<b>PRODUCT</b>	<b>ALLOY &amp; TEMPER</b>	<b>ASTM SPEC.</b>
Sheet and Plate	1100-0	B209
	2024-T4	B209
	3003-H14	B209
	3004-H38	B209
	5052-H32,-H38	B209
	5154-H38	B209
	6061-T6	B209
	7075-T6	B209
	ALCLAD 2024-T3,-T42 ALCLAD 6061-T6	B209
Wire	1100-H38	B211
	3003-H14	B211
	5052-H38	B211
	6061-T94 <sup>1</sup>	B211
Bars and Rod	2024-T4	B211
	6061-T6	B211
Extruded Bars and Rods and Shapes	5154-0	B221
	6061-T6	B221
	6063-T5	B221
Extruded Shapes	6063-T6	B211
	6005-T5	B211
	6351-T6	B211
Drawn Seamless Tube	6061-T6	B210
	6063-T832	B210
Extruded Tube	6061-T6	B241
Pipe	6061-T6	B241
	6063-T6	B241
Structural Shapes, Rolled or Extruded	6061-T6	B308
Welding Rods and Bare Electrodes	4043-O	Not ASTM <sup>2</sup>
	5154-0	Not ASTM <sup>2</sup>

**OVERHEAD SIGN STRUCTURE FABRICATION AND  
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**NOTES:** 1. See Mechanical Properties.  
2. Available from American Welding Society.

**715-05 IRON CASTINGS**

**SCOPE.** This specification covers material requirements for iron castings.

**MATERIAL REQUIREMENTS.** Iron castings shall conform to the requirements of AASHTO M 105, Class 30B or Class 35B, or ASTM A48, Class 30.

**FABRICATION.** Castings shall be true to pattern in form and dimensions, free from pouring faults, sponginess, cracks, blow holes and other defects at locations affecting their strength and value for the service intended. Castings shall be boldly filleted at angles and the arrises shall be sharp and perfect. Castings having blow holes plugged or filled with putty or cement of any kind will be rejected.

Grates, covers and curb boxes shall have continuous, full, and uniform bearing contact with their corresponding frames and shall be non-rocking when in place and under the influence of traffic or other loads. Methods that are permissible to achieve secure non-rocking fit between grates, covers and their corresponding frames are:

- Ground mating surfaces
- Machined and milled mating surfaces (horizontal and/or vertical).

All cast gratings, covers, frames and curb boxes shall be free of any coatings unless specified otherwise.

**BASIS OF ACCEPTANCE.** Iron castings conforming to the requirements of Standard Sheets ACast Manhole Frames, Grates and Covers® and ACast Frames and Curb Boxes and Welded Frames® will be accepted in accordance with the procedural directives of the Department. *Buy America Requirements Apply.*

**715-06 STEEL FORGINGS**

**MATERIAL REQUIREMENTS.** Steel forgings shall conform to the requirements of ASTM A668 Class C (CH), F (FH), or other class approved by the DCES.

**BASIS OF ACCEPTANCE.** Acceptance of this material will be in accordance with procedural directives of the Department. *Buy America Requirements Apply.*

**715-07 PROOF LOADED IRON CASTINGS**

**SCOPE.** This specification covers material and testing requirements for proof loaded iron castings.

**MATERIAL REQUIREMENTS.** Iron castings shall conform to the requirements of AASHTO M 105, Class 30B or Class 35B. Castings shall be true to pattern in form and dimensions, free from pouring faults, sponginess, cracks, blow holes and other defects at locations affecting their strength and value for the service intended.

Grates, covers and curb boxes shall have continuous, full, and uniform bearing contact with their corresponding frames and shall be non-rocking when in place and under the influence of traffic or other loads. Methods that are permissible to achieve secure non-rocking fit between grates, covers and their corresponding frames are:

- Ground mating surfaces
- Machined and milled mating surfaces (horizontal and/or vertical).

All gratings, covers, frames and curb boxes shall be free of any coatings unless specified otherwise.

Castings shall be boldly filleted at angles, and the arrises shall be sharp and perfect.

Castings having blow-holes plugged or filled with putty or cement of any kind will be rejected.

## OVERHEAD SIGN STRUCTURE FABRICATION AND CASTINGS, FORGINGS AND METALS

**Details.** All dimensions, including specified tolerances, in the Material Details shall be within the limits specified on the standard sheets - "Proof Loaded Cast Steel or Iron Manhole Frames, Grates, Covers" and "Welded Frames and Proof Loaded Cast Steel or Iron Frames and Curb Boxes." Corresponding section thicknesses of frames F1, F2 and F3 shall be same unless load tested. Corresponding section thicknesses and number of stiffeners of the mountable curb boxes (CMs) and unmountable curb boxes (CUs) shall be same. Also corresponding section thicknesses and number of stiffeners of all curb boxes, CUs and CMs, shall be same unless load tested. The class of iron to be used shall be clearly identified. Payment areas as indicated on the standard sheets shall be included.

**Testing Facility.** The Department's laboratory will conduct the proof load testing for acceptance of the design.

**SAMPLES AND SUBMISSIONS.** The manufacturer/supplier shall provide the following to the Materials Bureau before any testing can begin:

- Two (2) copies of the Material Details for each iron casting to be approved
- Two (2) samples of each cast iron article to be load tested as directed by the Materials Bureau
- One (1) sample of corresponding reticuline grate and any nuts and bolts required for assembly
- Two (2) B-Bar test specimens cast within an hour of casting each of the test samples and machined as per AASHTO M 105. Both ends of the specimen shall be machined to 1 1/8 inch x 7 threads per 1 inch.

It is the manufacturer/supplier's responsibility to remove in an expedient manner all supplied material from the Department's premises after the tests are done.

**Failure Criteria.** The design of an iron casting will be rejected if the following conditions are not met:

**A. Permanent Set.** This criterion applies to cast iron grate and cover. The maximum permanent set in any article, measured relative to a fixed horizontal plane, shall not exceed the lesser of 1/8 inch or 1/150 of the clear opening.

**B. Cracks.** All articles will be inspected after the completion of each test. No part of any article shall break or have any cracks.

**Retests and Re-submissions.** If the dimensions of the article(s) do not fall within the limits of the Material Details, either new article(s) or new Details shall be submitted at the manufacturer's option. Upon failure under proof loading no retests will be allowed. Complete new designs shall be submitted for further testing.

**Quality Assurance During Production.** The B-Bar test results for each lot of castings (a lot is defined as per AASHTO M 105) shall be maintained by the foundry for a period of seven (7) years and shall be made available to the Department upon request. Although proof load testing is not required during the production phase, the Department reserves the right to test any piece at any time.

**BASIS OF APPROVAL.** Material Details shall be prepared and submitted to the Director of Materials Bureau for approval. The articles will be proof-load tested in accordance to the Department's Test Method "Proof Loading of Cast Iron Frames, Grates, Covers and Curb Boxes", a copy of which may be obtained from the Director of Materials Bureau. After the proof-load tests are successful and the drawings are approved, the manufacturer's name, Material Details reference number and approval date will be placed on the Department's Approved List.

**BASIS OF ACCEPTANCE.** Cast iron frames, grates, covers and curb boxes will be accepted at the project site based on the manufacturer's name appearing on the Approved List, conformance to the approved Material Details, and a Material Certification. *Buy America Requirements Apply.*

For each piece supplied, the following shall be provided to the Engineer:

**OVERHEAD SIGN STRUCTURE FABRICATION AND  
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**A. Material Certification.** The manufacturer or supplier shall provide certification that every piece of cast iron frame, grate, cover and curb box supplied was manufactured in accordance with these specifications and the approved Material Details.

**B. Material Details.** Two (2) copies of the approved Material Details, identified by reference number and approval date as shown on the Approved List.

**715-08 (VACANT)****715-09 MALLEABLE IRON CASTINGS**

**SCOPE.** Malleable Iron Castings shall conform to the requirements of ASTM A47. The Grade shall be Grade 32510.

**MATERIAL REQUIREMENTS.** Castings shall be true to pattern in form and dimensions, free from pouring faults, sponginess, cracks, blow holes and other defects in positions affecting their strength and value for the service intended.

The casting shall be boldly filleted at angles and the arrises shall be sharp and perfect. The surface shall have a standard quality finish.

When galvanizing is required, it shall be in accordance with 719-01 *Galvanized Coatings and Repair Methods*, Type II. Particular care shall be exercised so as not to embrittle malleable castings when galvanizing. All galvanized castings shall meet specification requirements after galvanizing.

**BASIS OF ACCEPTANCE.** Acceptance of this material will be in accordance with procedural directives of the Department. *Buy America Requirements Apply.*

**715-10 (VACANT)****715-11 METAL BIN TYPE RETAINING WALL**

**SCOPE.** This specification covers the material and quality requirements for metal bin-type retaining walls.

**MATERIAL REQUIREMENTS**

**Base Metal.** The base metal for all components except fasteners shall be manufactured by the open hearth, basic oxygen process or electric furnace process and shall conform to the requirements of AASHTO M218. Base metal for the fasteners shall conform to the requirements of ASTM A307.

**FABRICATION**

**Details.** All members shall be so fabricated that members of the same nominal size shall be freely interchangeable. No drilling, punching or drifting to correct defects in manufacture will be permitted. Any units having holes improperly punched shall be replaced by the Contractor at no expense to the State.

The members in the wall shall conform to the gages, surface treatments and descriptions in Table 715-11, as well as the gages and dimensions shown in the plans. All materials receiving the Type IV surface treatment shall have a nominal zinc coating weight of 2.0 oz/sf such that the minimum check limits for the triple-spot and single-spot tests shall be 2.0 oz/sf and 1.8 oz/sf respectively.

**Configuration.** Walls shall consist of a series of pairs of columns, one column in each pair being in the plane of the wall face and the other column being in the plane of the rear of the wall, with the pair of columns spaced longitudinally with overlapping S-shaped facing and rear members (stringers) and transversely with overlapping U-shaped tie-members (spacers). All necessary bolts and appurtenances shall be furnished to form a continuous closed-face wall of connected bins.

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**BASIS OF ACCEPTANCE.** The metal bin-type retaining wall members will be accepted on the basis of the Material Certification and the Engineer's inspection. *Buy America Requirements Apply.*

<b>TABLE 715-11 METAL BIN TYPE RETAINING WALL DETAILS</b>			
<b>Name</b>	<b>Gage</b>	<b>Surface Treatment</b>	<b>Description</b>
Column	8	719-01 Type IV	Vertical Member, Front & Back
Column Cap	12	719-01 Type IV	Cover for front Column
Stringer Stiffener	8	719-01 Type IV	Top flange return
Stringer	16,14,12,10	719-01 Type IV	Horizontal Longitudinal members, front & rear
Connecting Channel	8	719-01 Type I	Connector, Stringer to Column
Spacer	16,14,12	719-01 Type IV	Horizontal Transverse member
Bottom Spacer	16,14,12	719-01 Type IV	Special bottom transverse member
Base Plate	1	719-01 Type I	
5/8 in dia. nuts	¼ in	719-01 Type II	All connections
5/8 in dia. nuts		719-01 Type II	All connections
5/8 in dia. Spring nuts		None	All connections

### 715-12 (VACANT)

### 715-13 PREFABRICATED ADJUSTMENT RINGS, FRAMES AND UTILITY VALVE RISERS FOR DRAINAGE UNITS, MANHOLES AND UTILITIES

**SCOPE.** This specification covers the material requirements and fabrication of adjustment rings, frames and utility valve risers for drainage structures, manholes and utilities.

The adjustment rings, frames and utility valve risers shall consist of one of the following types unless otherwise approved by the Director, Materials Bureau:

#### RINGS

Type AR1 - Single Height Segmented Unit

Type AR2 - Single Height - One Cut Unit

Type AR3 - Single Height - Solid Unit

#### FRAMES

Type AF1 - Single Height Segmented Unit

Type AF2 - Single Height Solid Unit

#### UTILITY VALVE RISERS

Type UVR1 - Single Height - Solid Ring Unit

Type UVF1 - Single Height - Solid Frame Unit

**MATERIAL REQUIREMENTS** All adjustment rings, frames and utility valve risers shall be fabricated from steel, iron castings, a combination of these two materials, or an alternative material or materials as approved by the Director of the Materials Bureau.

The steel used for fabrication of rings, frames and utility valve risers shall meet the requirements of ASTM A709-36, A108, A242 or equivalent. If cast iron is used, the cast iron units shall be iron castings meeting the requirements of ' 715-05, *Iron Castings*. All welding shall meet the requirements of the New York State Steel Construction Manual. All bolts, nuts, washers and threaded studs shall be stainless steel meeting the requirements of ASTM A240 or equivalent.

## OVERHEAD SIGN STRUCTURE FABRICATION AND CASTINGS, FORGINGS AND METALS

**FABRICATION.** All adjustment rings, frames and utility valve risers shall be designed to allow full bearing of the unit on the existing frame seat. Designs shall include a clamping device capable of securing the adjustment ring, frame or utility valve riser to the existing frame. Alternate methods of securing the rings, frames and utility valve risers to the existing frame shall be approved by the Director, Materials Bureau. All adjustment rings, frames and utility valve risers shall be reinforced to prevent bending during construction and routine service.

Steel rings, frames and utility valve risers shall be galvanized in accordance with '719-01 *Galvanized Coatings and Repair Methods*. When steel rings, frames and utility valve risers contain no component parts which are less than 1/4 inch in thickness, they may be coated with a bituminous base or coal tar product and will not require galvanizing. Any alternate coating system shall be approved by the Director, Materials Bureau. Cast iron rings, frames and utility valve risers do not require any galvanizing, but may instead be coated with a bituminous based or coal tar product approved by the Director, Materials Bureau.

### Rings

**Type AR1 - Single Height Segmented Unit.** This ring shall consist of two or more radial segments which may be adjusted to open and close the diameter of the ring. When fully expanded the ring shall bear firmly against the sidewalls and seat of the existing manhole frame.

**Type AR2 - Single Height - One Cut Unit.** This ring shall consist of a single circular unit which is cut through its circumference at one point. The ring shall include an adjusting device that shall enable the ring to be expanded to bear firmly against the sidewalls and seat of the existing manhole frame.

**Type AR3 - Single Height - Solid Unit.** This ring shall consist of a solid unit with no cuts or openings in its circumference. The diameter of this ring is not field adjustable, unless approved by the Materials Bureau..

### Frames

**Type AF1 - Single Height Segmented Unit.** This frame shall consist of a rectangular, segmented unit which is adjustable for length and width. When expanded the frame shall bear firmly against the sidewalls and seat of the existing frame.

**Type AF2 - Single Height Solid Unit.** This frame shall consist of a solid rectangular unit with fixed lengths and widths.

### Utility Valve Risers

**Type UVR1 - Single Height Solid Ring Unit.** This unit shall consist of a solid ring with no cuts or openings along its length.

**Type UVF1 - Single Height Solid Frame Unit.** This unit shall consist of a solid rectangular with fixed lengths and widths.

**BASIS OF APPROVAL.** The manufacturer or supplier shall prepare and submit Materials Details and the appropriate material in accordance with the procedural directives of the Materials Bureau. Upon approval by the Materials Bureau, the name of the manufacturer or supplier along with the drawing number and date assigned to the approved Material Details will be placed on the Approved List.

**BASIS OF ACCEPTANCE.** The Contractor shall provide two copies of the approved Material Details to the Engineer as evidence of acceptability for the product at least 10 days prior to its use. *Buy America Requirements Apply.*

### 715-14 HIGH STRENGTH BOLTS, NUTS AND WASHERS

## OVERHEAD SIGN STRUCTURE FABRICATION AND CASTINGS, FORGINGS AND METALS

**SCOPE.** This specification covers the requirements for high-strength steel bolts, nuts and washers used for structural steel connections.

**MATERIAL REQUIREMENTS.** The bolts, nuts and washers shall conform to the provisions of ASTM A325, A563, & F436, respectively; and ' 715-01 except as modified herein.

**Bolt and Nut Dimensions.** Bolt and nut dimensions shall conform to the current requirements of ASME B18.2.6. Alternate fasteners which differ in dimensions from those specified by the ASME may be used provided that the body diameter and bearing areas under the head and nut, or their equivalent areas, are not less than those of the same nominal dimensions specified by the ASME, and that approval for the use is given by the DCES.

**Washer Dimensions.** Circular washers shall be flat and smooth and their nominal dimensions shall conform to the dimensions given in Table 715-14. Beveled washers for American Standard beams and channels shall be square or rectangular, shall have an average thickness of 5/16 inch, and shall conform to the dimensions and taper in thickness given in Table 715-14.

**TESTS AND ACCEPTANCE.** Tests and acceptance of high strength bolts, nuts and washers will be as described in section 10 of the SCM. *Buy America Requirements Apply.*

<b>TABLE 715-14 WASHER DIMENSIONS<sup>1</sup></b>						
<b>Bolt Size</b>	<b>Circular Washers</b>				<b>Beveled Washer for American Standard Beams and Channels</b>	
	<b>Nominal Outside Diam.<sup>2</sup></b>	<b>Nominal Diam. of hole</b>	<b>Thickness</b>		<b>Min. Side Dimensions</b>	<b>Slope, or Taper in Thickness</b>
			<b>Min.</b>	<b>Max.</b>		
1/2	1 1/16	17/32	0.097	0.177	1 3/4	1:6
5/8	1 5/16	21/32	0.122	0.177	1 3/4	1:6
3/4	1 1/32	13/16	0.122	0.177	1 3/4	1:6
7/8	1 3/4	15/16	0.136	0.177	1 3/4	1:6
1	2	1 1/16	0.136	0.177	1 3/4	1:6
1 1/8	2 1/4	1 1/4	0.136	0.177	2 1/4	1:6
1 1/4	2 1/2	1 3/8	0.136	0.177	2 1/4	1:6
1 3/8	2 3/4	1 1/2	0.136	0.177	2 1/4	1:6
1 1/2	3	1 5/8	0.136	0.177	2 1/4	1:6
1 3/4	3 3/8	1 7/8	0.178 <sup>3</sup>	0.28 <sup>3</sup>	-	-
2	3 3/4	2 1/8	0.178	0.28	-	-
Over 2 to 4 incl.	2D-1/2	D+1/8	0.24 <sup>4</sup>	0.34 <sup>4</sup>	-	-

- NOTES:** 1. Dimensions in inches.  
 2. May be exceeded by 1/4 inch  
 3. 3/16 inch nominal.  
 4. 1/4 inch nominal.

### 715-15 PINS AND ROLLERS

**SCOPE.** This specification covers steel pins and rollers used in bridge construction.

**GENERAL.** The material furnished for pins and rollers shall conform to the following requirements:

- Pins and rollers designed for a minimum yield stress of 36 ksi shall conform to ASTM A668, Class D

## OVERHEAD SIGN STRUCTURE FABRICATION AND CASTINGS, FORGINGS AND METALS

- Pins and rollers designed for a minimum yield stress of 50 ksi shall conform to the requirements of ASTM A668, Class F
- Any pin or roller greater than 12 inches in diameter shall be furnished in conformance with the requirements of ASTM A668, Class G.

**BASIS OF ACCEPTANCE.** Tests are to be performed as required in the applicable ASTM Designation. Certified copies of the results of the specified tests are to be furnished as described in Basis of Acceptance,® of '715-01 *Structural Steel*. Acceptance of material will be based on satisfactory test results and dimensional compliance with the contract documents. *Buy America Requirements Apply.*

### 715-16 STAINLESS STEEL CONNECTING PRODUCTS

**SCOPE.** This specification covers stainless steel bolts, nuts, washers, and set screws used in the construction of sign structures.

**MATERIAL REQUIREMENTS.** Stainless steel connecting products shall conform to the following:

- Hex bolts designed for 85 ksi minimum yield strength shall conform to the requirements of ASTM A193, Grade B6 (AISI 410).
- Nuts for Grade B6 bolts shall conform to the requirements of ASTM A194, Grade B6 (AISI 416).
- Hex bolts and U-bolts designed for 30 ksi minimum yield strength shall be either AISI 304 or 305 stainless steel conforming to the requirements of ASTM A193, Grade B8 or Grade B8P, Class 1.
- Hex bolts and U-bolts designed for 100 ksi minimum yield strength shall be either AISI 304 or 305 stainless steel conforming to the requirements of ASTM A193, Grade B8 or Grade B8P, Class 2.
- Nuts for Grade B8 or Grade B8P bolts shall conform to the requirements of ASTM A194, Grade B8 (AISI 304).
- Flat washers shall be circular, flat, smooth, and fabricated from material conforming to the requirements of ASTM A167 (AISI 302B (UNS S30215) or ASTM A240 (AISI 302 or 304 (UNS S30200 or S30400))).
- Lock washers shall be fabricated in accordance with ANSI B18.21.1 from material conforming to the requirements of ASTM A313 (AISI 302, 304, or 305 (UNS S30200, S30400, or S30500)) with a hardness Rc 35-43.
- Set screws shall conform to the requirements of ASTM A320, Grade B8F (AISI 303).

**Cleaning.** Following heat treatment, all stainless steel connecting products shall be descaled and cleaned in accordance with the requirements of ASTM A380. After cleaning and descaling the stainless steel hardware shall be passivated. Stainless steel hardware with a black or speckled rusty appearance is acceptable provided the discoloration does not run when installed.

**Delivery.** All stainless steel connecting products shall be delivered to the project site no less than 30 days prior to utilization of the hardware to allow ample time for sampling and testing.

**SAMPLING AND TESTING.** Stainless steel connecting products will be sampled at the project site or supply location. Sampling and testing will be in accordance with procedural directives of the Materials Bureau.

**BASIS OF ACCEPTANCE.** Stainless steel connecting products will be accepted in stock-lot quantities at the project site or supplier's location in accordance with procedural directives of the Materials Bureau. Grade B8 bolts less than 3/8 inch in diameter will be accepted based on chemical properties only. *Buy America Requirements Apply.*

### 715-17 STEEL SHEETING



**OVERHEAD SIGN STRUCTURE FABRICATION AND  
CASTINGS, FORGINGS AND METALS**

**SCOPE.** This section provides the material and quality requirements for steel sheeting.

**MATERIAL REQUIREMENTS.** Steel sheeting shall meet the requirements of §715-01 *Structural Steel* and the requirements of ASTM A328M.

**BASIS OF ACCEPTANCE.** This material will be accepted on the basis of a material certification as described in Basis of Acceptance §715-01 *Structural Steel. Buy America Requirements Apply to all permanent and interim applications.* Temporary steel which is not removed after completion of the work is considered a permanent application.

**715-18 SOLDIER PILES**

**SCOPE.** This section provides the material and quality requirements for soldier piles.

**MATERIAL REQUIREMENTS.** Soldier piles shall meet the requirements of §715-01 *Structural Steel* except that the use of ASTM A588M is prohibited.

**BASIS OF ACCEPTANCE.** This material will be accepted on the basis of a material certification as described in Basis of Acceptance 715-01 *Structural Steel. Buy America Requirements Apply to all permanent and interim applications.* Temporary steel which is not removed after completion of the work is considered a permanent application.

**POLE MOUNTED SIGN SUPPORT SYSTEM**

Make the following changes to the Standard Specifications of May 1, 2008:

**delete 645-3.07 Pole-Mounted Sign Support Systems** in its entirety and *replace* with the following:

**“645-3.07 Pole-Mounted Sign Support System.** Pole-Mounted Sign Support System, as defined in 645-2.07, shall be firmly attached to the pole in accordance with the standard sheets and/or manufacturer's instructions.

***A. Panels without Z-bar stiffeners:***

Sign panels less than or equal to 18 inches wide, shall be attached to the pole with at least two bands. Sign panels less than or equal to 18 inches wide and longer than 30 inches, shall be attached to the pole with at least three bands.

***B. Panels and assemblies with Z-bar stiffeners:***

Sign panels greater than 18 inches wide and sign panel assemblies shall be banded to the pole at each horizontal Z-bar stiffener, as shown on the standard sheets.

Sign Panels mounted with this type of sign support shall not be greater than 48 inches wide, and shall not be greater than 60 inches in height. Sign panel assemblies mounted with this type of sign support shall not be greater than 48 inches wide.”

Make the following changes to the Standard Specification of May 4, 2006 / May 1, 2008:

**Delete** Sections 689 thru 696 and **Replace** them with the following:

**SECTIONS 689 THRU 695 (VACANT)**

**SECTION 696 CONTRACTOR CHARGES**

**696-1 DESCRIPTION.** This section will provide for the accounting of charges assessed against the Contractor in accordance with the contract documents.

**696-2 MATERIALS.** None specified.

**696-3 CONSTRUCTION DETAILS.** The Department may assess the Contractor charges for Engineering Charges and/or Liquidated Damages against monies due the Contractor in accordance with §108-03 *Failure to Complete Work On Time*, or may make other charges in accordance with the contract. These charges will be assessed using the contract pay items in this section.

**696-4 METHOD OF MEASUREMENT.** These contract pay items will not be shown in the itemized proposal. Contractor charges will be measured on a Dollars-Cents basis.

**696-5 BASIS OF PAYMENT.** Should the Contractor be assessed charges, the amounts will be accounted for using the contract pay items in this section. Assessed charges will be deducted from a contract payment processed after the determination that charges will be made, or, if the Contractor is not due monies sufficient to recover the assessed charges, the State may utilize other methods of recovery.

*Payment will be made under:*

<b>Item No.</b>	<b>Item</b>	<b>Pay Unit</b>
696.01	Engineering Charges	Dollars Cents
696.02	Liquidated Damages	Dollars Cents
696.03	Contractor Charges – Other	Dollars Cents

Make the following changes to the Standard Specifications of May 1, 2008:

Page 781, **remove** 704-02 in its entirety and **replace** it with the following:

**“704-02 CONCRETE BRICK**

**SCOPE.** This specification covers the material and quality requirements for concrete brick produced in accordance with the current Materials Procedure for Concrete Masonry QC/QA titled “Procedures for Achieving and Maintaining Concrete Masonry Units Approved List Status”. Item 704-02 can be used in brick masonry construction, altering drainage structures, leaching-basins and manholes (section 604).

**MATERIAL REQUIREMENTS.** Concrete brick shall conform to the requirements of ASTM C936, except as noted herein. Certain aggregates appear in the Approved List of Sources of Fine and Coarse Aggregates that have use limitations with high alkali Portland Cement. Materials used in the manufacture of concrete brick shall meet the requirements of the following subsections:

Portland Cement	701-01
Coarse Aggregate	703-02
Mortar Sand	703-03
Grout Sand	703-04
Concrete Sand	703-07
Fly Ash	711-10
Ground, Granulated Blast-Furnace Slag	711-12
Water	712-01

Fly ash or ground, granulated blast-furnace slag may be substituted up to a maximum of 20% by weight of the total amount of cement plus pozzolan in the mix. Pigments used for integral coloring shall meet the requirements of ASTM C979. Other materials may be used in the manufacture as approved by the Director, Materials Bureau. The nominal dimensions of the brick shall be 8 inches long, 4 inches wide, and 2 $\frac{2}{3}$  inches in height.

**Physical Properties.** Concrete brick shall meet the compressive strength and absorption requirements in ASTM C936. In addition, the maximum acceptable average freeze/thaw loss of five paver samples, subjected to 25 freeze/thaw cycles in a 10% NaCl solution, is 1.0%, with no individual sample exceeding 1.5%.

**SAMPLING AND TESTING.** When samples are requested by the Department, they will be randomly selected from production-run material. A total of 15 concrete bricks of the same size and style will be required. Five samples will be tested for compressive strength and five for absorption, in accordance with ASTM C140. Five samples will be tested for freeze/thaw durability in accordance with NYSDOT test methods.

**BASIS OF ACCEPTANCE.** Concrete brick will be accepted on the job site based on the following:

- The manufacturer's name must appear on the Department's Approved List for the item being supplied.
- A manufacturer's certification.
- An acceptable product evaluation made by the Engineer.”

Page 788, **remove** 704-04 in its entirety and **replace** with the following:

**"704-04 CONCRETE BLOCK (SLOPE PAVING)**

**SCOPE.** This specification covers the material details and quality requirements for concrete block for use in concrete block slope paving and produced in accordance with the current Materials Procedure for Concrete Masonry QC/QA titled "Procedures for Achieving and Maintaining Concrete Masonry Units Approved List Status".

**MATERIAL REQUIREMENTS.** Certain aggregates appear in the Approved List of Sources of Fine and Coarse Aggregates that have use limitations with high alkali Portland Cement. Materials used in the manufacture of concrete block shall meet the requirements of the following subsections:

Portland Cement	701-01
Coarse Aggregate	703-02
Mortar Sand	703-03
Grout Sand	703-04
Concrete Sand	703-07
Fly Ash	711-10
Ground, Granulated Blast-Furnace Slag	711-12
Water	712-01

Fly ash or ground granulated blast furnace slag may be substituted for up to a maximum of 20% by weight of the total amount of cement plus pozzolan in the mix. Pigments used for integral coloring shall meet the requirements of ASTM C979. Other materials may be used in the manufacture as approved by the Director, Materials Bureau.

**Physical Properties.** The minimum acceptable average compressive strength of five-block samples is 6000 psi, with no individual block less than 5500 psi. The maximum acceptable average freeze/thaw loss of five-block samples, subjected to 42 freeze/thaw cycles in a 3% NaCl solution, shall not exceed 1.0%, with no individual sample exceeding 1.5%.

Block dimensions shall be as required in the contract documents. Dimensions shall not vary by more than ¼ inch from those specified. Blocks shall be sound and free from cracks or other defects that would interfere with their proper placement or performance.

**SAMPLING AND TESTING.** When samples are requested by the Department, they will be randomly selected from production-run material. A minimum of five samples, prepared by the manufacturer in accordance with ASTM C1262, will be required for freeze/thaw testing.

Samples will be tested for compressive strength in accordance with ASTM C140. Samples will be tested for freeze/thaw durability in accordance with ASTM C1262.

**BASIS OF ACCEPTANCE.** Concrete block will be accepted on the job site based on the following:

- The manufacturer's name must appear on the Department's Approved List for the item being supplied.
- A manufacturer's certification.
- An acceptable product evaluation made by the Engineer."

Page 790, **remove** 704-07 in its entirety and **replace** with the following:

**“704-07 SEGMENTAL RETAINING WALL BLOCKS**

**SCOPE.** This specification covers the material details and quality requirements for segmental retaining wall blocks produced in accordance with the current Materials Procedure for Concrete Masonry QC/QA titled “Procedures for Achieving and Maintaining Concrete Masonry Units Approved List Status”.

**MATERIAL REQUIREMENTS.** Provide segmental retaining wall block meeting the style and color requirements in the contract documents. Certain aggregates appear in the Approved List of Sources of Fine and Coarse Aggregates that have use limitations with high alkali Portland cement. Use materials, meeting the following requirements, in the manufacture of segmental retaining wall blocks:

Portland Cement	701-01
Coarse Aggregate	703-02
Mortar Sand	703-03
Grout Sand	703-04
Concrete Sand	703-07
Fly Ash	711-10
Ground, Granulated Blast-Furnace Slag	711-12
Water	712-01

Fly ash or ground, granulated blast-furnace slag may be substituted for up to a maximum of 20% by weight of the total amount of cement plus pozzolan in the mix. Use integral coloring pigments, when required, meeting the requirements of ASTM C979. Other materials may be used in the manufacture as approved by the Director, Materials Bureau.

**Physical Properties.** The minimum acceptable average compressive strength of five-block samples is 6000 psi, with no individual block sample less than 5500 psi. The maximum acceptable average freeze/thaw loss of five-block samples, subjected to 42 freeze/thaw cycles in a 3% NaCl solution, is 1.0%, with no individual sample exceeding 1.5%.

The formed dimensions of concrete retaining wall block units will not differ more than ¼ inch from the nominal dimensions shown on the approved Materials Detail Drawing. Provide sound blocks, free from cracks or other defects that would interfere with the proper placing, performance, or appearance of the blocks.

**Materials Details.** At the time of application to the Approved List, submit Materials Details Drawings to the Director, Materials Bureau for approval. Prepare and submit drawings in accordance with Departmental procedural directives. Submit a unique drawing(s) for each block style under consideration.

**SAMPLING AND TESTING.** When samples are requested by the Department, they will be randomly selected from production-run material. A minimum of 5 samples, prepared by the manufacturer in accordance with ASTM C140, will be required for compression testing. A minimum of five samples, prepared by the manufacturer in accordance with ASTM C1262, will be required for freeze/thaw testing.

Samples will be tested for compressive strength in accordance with ASTM C140. Samples will be tested for freeze/thaw durability in accordance with ASTM C1262.

**BASIS OF ACCEPTANCE.** Segmental retaining wall blocks will be accepted on the job site based on

the following:

- The manufacturer's name and block style must appear on the Department's Approved List for the item being supplied.
- A manufacturer's certification.
- Conformance to the approved material detail drawing(s).
- An acceptable product evaluation made by the Engineer."

Page 792, **remove** 704-10 in its entirety and **replace** with the following:

**“704-10 SPLIT-FACED CONCRETE BRICK**

**SCOPE.** This specification covers the material details and quality requirements for split faced concrete brick for use in facing structural walls and produced in accordance with the current Materials Procedure for Concrete Masonry QC/QA titled “Procedures for Achieving and Maintaining Concrete Masonry Units Approved List Status”.

**MATERIAL REQUIREMENTS.** Split-faced concrete brick shall conform to the requirements of ASTM C90, except as noted herein. The shape, size, and color of split-faced concrete brick shall be as shown in the contract documents. The splitting operation shall leave relatively sharp, straight and parallel edges. Certain aggregates appear in the Approved List of Sources of Fine and Coarse Aggregates that have use limitations with high alkali Portland Cement. Materials used in the manufacture of split-faced concrete brick shall meet the requirements of the following subsections:

Portland Cement	701-01
Coarse Aggregate	703-02
Mortar Sand	703-03
Grout Sand	703-04
Concrete Sand	703-07
Fly Ash	711-10
Ground, Granulated Blast-Furnace Slag	711-12
Water	712-01

Fly ash or ground, granulated blast-furnace slag may be substituted for up to a maximum of 20% by weight of the total amount of cement plus pozzolan in the mix. Pigments used for integral coloring shall meet the requirements of ASTM C979. Other materials may be used in the manufacture as approved by the Director, Materials Bureau.

**SAMPLING AND TESTING.** When samples are requested by the Department, they will be randomly selected from production-run material. A minimum of 10 full-size, split-faced bricks of the same size and style will be required. Five samples will be tested for compressive strength and five for absorption, in accordance with ASTM C140.

The manufacturer shall be responsible for having brick tested for linear drying shrinkage in accordance with ASTM C90. A copy of the test report shall be included with the samples submitted to the Department for compression and absorption testing.

**BASIS OF ACCEPTANCE.** Split-faced concrete brick will be accepted on the job site based on the following:

- The manufacturer's name must appear on the Department's Approved List for the item being

supplied.

- A manufacturer’s certification.
- An acceptable product evaluation made by the Engineer.”

Page 793, **remove** 704-12 in its **entirety** and replace with the following:

#### “704-12 CONCRETE BLOCK

**SCOPE.** This specification covers the material and quality requirements for concrete block for use in structural walls and produced in accordance with the current Materials Procedure for Concrete Masonry QC/QA titled “Procedures for Achieving and Maintaining Concrete Masonry Units Approved List Status”.

**MATERIAL REQUIREMENTS.** Concrete block shall conform to the requirements of ASTM C90 except as noted herein. The shape, size, and color of concrete block shall be as shown in the contract documents. Certain aggregates appear in the Approved List of Sources of Fine and Coarse Aggregates that have use limitations with high alkali Portland Cement. Materials used in the manufacture of concrete block shall meet the requirements of the following subsections:

Portland Cement	701-01
Coarse Aggregate	703-02
Mortar Sand	703-03
Grout Sand	703-04
Concrete Sand	703-07
Fly Ash	711-10
Ground, Granulated Blast-Furnace Slag	711-12
Water	712-01

Fly ash or ground, granulated blast-furnace slag may be substituted for up to a maximum of 20% by weight of the total amount of cement plus pozzolan in the mix. Pigments used for integral coloring shall meet the requirements of ASTM C979. Other materials may be used in the manufacture as approved by the Director, Materials Bureau.

**SAMPLING AND TESTING.** When samples are requested by the Department, they will be randomly selected from production-run material. A minimum of 10 full-size concrete blocks of the same size and style will be required. Five samples will be tested for compressive strength and five for absorption, in accordance with ASTM C140.

The manufacturer shall be responsible for having block tested for linear drying shrinkage in accordance with ASTM C90. A copy of the test report shall be included with the samples submitted to the Department for compression and absorption testing.

**BASIS OF ACCEPTANCE.** Concrete block will be accepted on the job site based on the following:

- The manufacturer’s name must appear on the Department’s Approved List for the item being supplied.
- A manufacturer’s certification.
- An acceptable product evaluation made by the Engineer.”

Page 794, **remove** 704-13 in its **entirety** and **replace** with the following:



**“704-13 PRECAST CONCRETE DRIVEWAY AND SIDEWALK PAVERS**

**SCOPE.** This specification covers the material details and quality requirements for precast concrete pavers used for driveway and sidewalk paving and produced in accordance with the current Materials Procedure for Concrete Masonry QC/QA titled “Procedures for Achieving and Maintaining Concrete Masonry Units Approved List Status”.

**MATERIAL REQUIREMENTS.** Precast concrete pavers shall meet the requirements of ASTM C936 except as noted herein. The shape, size, and color of precast concrete pavers shall be as shown in the Contract documents. Certain aggregates appear in the Approved List of Sources of Fine and Coarse Aggregates that have use limitations with high alkali Portland Cement. Materials used in the manufacture of precast concrete pavers shall meet the requirements of the following subsections:

Portland Cement	701-01
Coarse Aggregate	703-02
Mortar Sand	703-03
Grout Sand	703-04
Concrete Sand	703-07
Fly Ash	711-10
Ground, Granulated Blast-Furnace Slag	711-12
Water	712-01

Fly ash or ground, granulated blast-furnace slag may be substituted for up to a maximum of 20% by weight of the total amount of cement plus pozzolan in the mix. Pigments used for integral coloring shall meet the requirements of ASTM C979. Other materials may be used in the manufacture as approved by the Director, Materials Bureau.

**Physical Properties.** Precast concrete pavers shall meet the compressive strength and absorption requirements of ASTM C936. In addition, the maximum acceptable average freeze/thaw loss of five paver samples, subjected to 25 freeze/thaw cycles in a 10% NaCl solution, is 1.0%, with no individual sample exceeding 1.5%.

**SAMPLING AND TESTING.** When samples are requested by the Department, they will be randomly selected from production-run material. A total of 15 precast concrete pavers of the same size and style will be required. Five samples will be tested for compressive strength and five for absorption, in accordance with ASTM C140. Five samples will be tested for freeze/thaw durability in accordance with NYSDOT test methods.

**BASIS OF ACCEPTANCE.** Precast concrete driveway and sidewalk pavers will be accepted on the job site based on the following:

- The manufacturer's name must appear on the Department's Approved List for the item being supplied.
- A manufacturer's certification.
- An acceptable product evaluation made by the Engineer.”

Page 798, **remove** 704-23 in its entirety and **replace** with the following:

**“704-23 PRECAST CONCRETE STREET PAVERS**

**SCOPE.** This specification covers the material and quality requirements for precast concrete pavers used for street paving and produced in accordance with the current Materials Procedure for Concrete Masonry QC/QA titled “Procedures for Achieving and Maintaining Concrete Masonry Units Approved List Status”.

**MATERIAL REQUIREMENTS.** Precast concrete pavers shall meet the requirements of ASTM C936 except as noted herein. The shape, size, and color of precast concrete pavers shall be as shown in the contract documents. Minimum thickness for precast concrete street pavers shall be 3 1/8 inches. Certain aggregates appear in the Approved List of Sources of Fine and Coarse Aggregates that have use limitations with high alkali Portland cement. Materials used in the manufacturing of precast concrete pavers shall meet the requirements of the following subsections:

Portland Cement	701-01
Coarse Aggregate*	703-02
Mortar Sand*	703-03
Grout Sand*	703-04
Concrete Sand*	703-07
Fly Ash	711-10
Ground, Granulated Blast-Furnace Slag	711-12
Water	712-01

\* **Aggregates.** For precast concrete pavers or equivalent products placed in concrete highway wearing surfaces, use aggregate from a source or sources on the “Approved List of Sources of Fine and Coarse Aggregate.” All aggregate must be approved for use in concrete. Fine aggregate, natural or manufactured sand, must meet the requirements of §703-01, Fine Aggregate. Crushed stone, crushed gravel, or crushed slag from a coarse aggregate source must meet the requirements of §703-02, Coarse Aggregate.

Aggregate friction requirements: Sample and test aggregate for friction characteristics according to the procedures of Materials Method 28 “Friction Aggregate Control and Test Procedures”, PCC Sand. The Engineer will identify pavement areas, if any, represented by failing samples according to the procedures of Materials Method 28 “Friction Aggregate Control and Test Procedures.”

Aggregate must contain at least 25.0% acid-insoluble residue in the plus No. 30 size fraction and in the minus No. 30, plus No. 200 size fraction. If more than one source of aggregate is used, aggregate from each source must meet the acid-insoluble residue requirements.

Fly ash or ground, granulated blast-furnace slag may be substituted up to a maximum of 20% by weight of the total amount of cement plus pozzolan in the mix. Pigments used for integral coloring shall meet the requirements of ASTM C979. Other materials may be used in the manufacture as approved by the Director, Materials Bureau.

**Physical Properties.** Precast concrete pavers shall meet the compressive strength and absorption requirements of ASTM C936. In addition, the maximum acceptable average freeze/thaw loss of five paver samples, subjected to 25 freeze/thaw cycles in a 10% NaCl solution, is 1.0%, with no individual

sample exceeding 1.5%.

**SAMPLING AND TESTING.** When samples are requested by the Department, they will be randomly selected from production-run material. A total of 15 precast concrete pavers of the same size and style will be required. Five samples will be tested for compressive strength and five for absorption, in accordance with ASTM C140. Five samples will be tested for freeze/thaw durability in accordance with NYSDOT test methods.

**BASIS OF ACCEPTANCE.** Precast Concrete Street pavers will be accepted on the job site based on the following:

- The manufacturer's name must appear on the Department's Approved List for the item being supplied.
- A manufacturer's certification.
- An acceptable product evaluation made by the Engineer."

**704-24 - PRECAST CONCRETE PANELS**

Make the following changes to the Standard Specifications dated May 1, 2008:

**Page 799 Add** the following:

**704-24 - PRECAST CONCRETE PANELS**

**SCOPE.** This specification covers the material and fabrication requirements for precast concrete panels.

**MATERIAL REQUIREMENTS.** The Material Requirements contained in §704-03 shall apply.

**DRAWINGS.** The Drawing requirements contained in §704-03 shall apply.

**FABRICATION.** The Fabrication requirements contained in §704-03 shall apply.

**SAMPLING AND TESTING.** The Sampling And Testing requirements contained in §704-03 shall apply.

**MARKING.** The Marking requirements contained in §704-03 shall apply.

**FINAL PRODUCTION INSPECTION.** The Final Production Inspection requirements contained in §704-03 shall apply.

**SHIPPING.** The Shipping requirements contained in §704-03 shall apply.

**BASIS OF ACCEPTANCE.** The Basis Of Acceptance requirements contained in §704-03 shall apply.

**ROCK SLOPE NET AND WIRE MESH ASSEMBLIES**

Make the following changes to the Standard Specifications dated May 1, 2008:

**Add** the following:

**710-06 – ROCK SLOPE NET AND WIRE MESH ASSEMBLIES**

**SCOPE.** This specification covers the material requirements for the components for assembling a rock bolt generally used in reinforcing a rock slope or as part of a rock catchment system. The following materials are evaluated in this specification:

710.0601 – Rock Slope Net Assembly.

710.0602 – Rock Slope Wire Mesh Assembly.

710.0603 – Rock Slope Wire Mesh Drape Assembly.

**MATERIAL REQUIREMENTS.**

**A. Rock Slope Net Assembly.** Provide a fence consisting of a net fabricated from wire rope meeting the requirements of §710-27 *Rock Slope Wire Ropes, Seam Rope for Wire Rope Rock Catchment Fence*. The border rope of the net shall meet the requirements of §710-27 *Rock Slope Wire Ropes, Net Supporting Wire Rope for Wire Rope Rock Catchment Fence*.

The mesh size of the net shall be 8 in. by 8 in. The net shall be diagonally woven.

**B. Rock Slope Wire Mesh.** Provide 11 gauge (1/8 in. diameter), single twisted, coated steel wire mesh, with Class 1 (Zn-5Al) coating conforming to ASTM F1345. The steel wire composing the mesh shall have a minimum tensile strength conforming to ASTM A817.

**C. Rock Slope Wire Mesh Drape.** Provide 11 gauge (1/8 in. diameter), 8 by 10 mesh type having a nominal mesh opening of 3 1/4 in. x 4 1/2 in., galvanized steel wire mesh, conforming to ASTM A975, Style 1.

**BASIS OF ACCEPTANCE.** The Rock Slope Net Assembly will be accepted on the basis of a material certification that the product conforms to this specification.

The Rock Slope Wire Mesh will be accepted on the basis of a material certification that the product conforms to this specification.

The Rock Slope Wire Mesh Drape will be accepted on the basis of a material certification that the product conforms to this specification.

**ROCK SLOPE WIRE ROPES**

Make the following changes to the Standard Specifications dated May 1, 2008:

Page 867, **Delete** SECTION 710-27 THRU 710-29 (VACANT) and **Replace** it with the following:

**710-27 – ROCK SLOPE WIRE ROPES**

**SCOPE.** This specification covers the material requirements for the components for wire ropes generally used in a rock catchment system. The following materials are evaluated in this specification:

710.2701 – Rock Slope Wire Ropes, Net Supporting Wire Rope for Wire Rope Rock Catchment Fence.

710.2702 – Rock Slope Wire Ropes, Seam Rope for Wire Rope Rock Catchment Fence.

710.2703 – Rock Slope Wire Ropes, Tieback Restraining Cable for Wire Rope Rock Catchment Fence.

710.2704 – Rock Slope Wire Ropes, Anchor Cable for Wire Rope Rock Catchment Fence.

710.2705 – Rock Slope Wire Ropes, Seam Rope for Wire Mesh Slope Protection

**MATERIAL REQUIREMENTS.** Provide material in accordance with TABLE 710-27A *Rock Slope Wire Ropes*.

<b>TABLE 710-27A ROCK SLOPE WIRE ROPES</b>			
<b>Rock Slope Wire Rope</b>	<b>Rope/Cable</b>	<b>Minimum Diameter</b>	<b>Minimum Breaking Strength</b>
Wire Ropes for Wire Rope Rock Catchment Fence	Net Supporting Wire Rope	5/8 in. (6x19 construction)	37 kips
	Seam Rope	5/16 in. (7x7 construction)	9 kips
	Tieback Restraining Cables	5/8 in. (6x19 construction)	37 kips
	Anchor Cables (10 ft. min. length, equipped with heavy duty type thimbles)	3/4 in.	53 kips
Seam Wire for Wire Mesh Slope Protection	Seam Rope	5/16 in. (7 x 19 Galvanized Aircraft Cable)	10 kips

All wire ropes for the wire nets, supporting ropes, seam ropes and anchors shall be composed of steel wires individually galvanized before being woven into the ropes.

**BASIS OF ACCEPTANCE.** The Wire Ropes for Wire Rope Rock Catchment Fence will be accepted on the basis of a material certification that the product conforms to this specification.

The Seam Wire Rope for Wire Mesh Slope Protection will be accepted on the basis of a material certification that the product conforms to this specification.

**710-28 THRU 710-29 (VACANT)**

**§711-08 – ADMIXTURES- NON-CHLORIDE ACCELERATORS**

Make the following changes to the Standard Specifications, dated May 1, 2008:

**Page 872** under **711-08 ADMIXTURES**, *delete* the paragraph **SCOPE**, and *replace* with the following:

**“SCOPE.** These specifications cover the material requirements for air-entraining, water-reducing and retarding, water-reducing (normal range and high range), and non-chloride accelerating admixtures used in the manufacture of Portland Cement concrete.”

**Page 874**, *after* paragraph **E. Length Change**, *add* the following:

**“Non-Chloride Accelerating Admixtures.** Non-chloride accelerating admixtures shall conform to the requirements outlined in ASTM C494 for Type C or Type E admixtures.”

**Page 874**, *delete* the paragraph **SAMPLING AND TESTING**, and *replace* with the following:

**“SAMPLING AND TESTING.** A one quart sample of admixture shall be submitted to the Materials Bureau by the manufacturer applying for approval, except that for Water-reducing (High Range) admixtures, two quarts will be required. The manufacturer shall submit information on the formulation of the product including the raw materials from which it is compounded, data from tests performed in accordance with these specifications and a description of the manufacturing process. Data from tests performed in accordance with ASTM C260 for air-entraining agents and ASTM C494 for water-reducing and retarding, water-reducing (normal range and high range), and non-chloride accelerating admixtures may be substituted.

The Department will test the submitted admixture sample according to written Department instructions. The test procedures are available from the Materials Bureau upon request.

The Department reserves the right to monitor the performance of any previously approved admixture. Samples of admixture may be taken from actual concrete operations and retested by the Materials Bureau.”

**Page 875**, *delete* the paragraph **BASIS OF ACCEPTANCE**, and *replace* with the following:

**“BASIS OF APPROVAL.** The approval of the admixture shall be based upon the submitted information and tests performed by the Materials Bureau. Upon approval by the Materials Bureau, the name of the product will be placed on the Approved List.

**BASIS OF ACCEPTANCE.** Admixtures will be accepted on the basis of the brand name appearing on the Approved List and the product containers plainly labeled with the brand name.

Any admixtures sampled from actual concrete operations and retested in the Materials Bureau shall give substantially the same results, at the same dosage rate, as the original tests. Any significant change will be cause for rejection of that material and may require a resubmission of the admixture by the manufacturer for a complete retest to determine specification compliance. The admixture may be withdrawn from the Approved List during the retest period.”

**D261746**  
**REMOVABLE WET-NIGHT REFLECTIVE TAPE**

Make the following change to the Standard Specifications of May 1, 2008:

Page **1015**: **Delete** existing **TABLE 727-07-3** and **replace** with the following Table:

<b>TABLE 727-07-3 MINIMUM INITIAL RETROREFLECTANCE</b>				
<b>Entrance Angle: 88.76° Observation Angle:1.05°</b>				
<b>Color</b>	<u>White</u>		<u>Yellow</u>	
<b>Condition</b>	Dry	Wet	Dry	Wet
<b>Retroreflectivity [mcd/ft<sup>2</sup>/fc]</b>	500	250	300	200



**D261746**  
**SHEET GASKET (TREATED BOTH SIDES)**

**129**

Make the following changes to the Standard Specifications dated May 1, 2008:

Page 1021 **Delete** §728-06 Sheet Gasket (Treated Both Sides) in its entirety and **Replace** it with the following:

**728-06 SHEET GASKET (TREATED BOTH SIDES)**

**SCOPE.** This specification covers the material requirements for sheet gasket, treated both sides with a parting agent to prevent adhesion to working surfaces. This material is used as a bond breaker and sliding surface in bridge construction.

**MATERIAL REQUIREMENTS.** The sheet gasket shall have a nominal 1/16 inch thickness and shall be treated on both sides with a parting agent. The material shall meet the following requirements:

<b>TABLE 728-06-1 SHEET GASKET REQUIREMENTS</b>		
<b>Property</b>	<b>Test Method</b>	<b>Requirement</b>
Water absorption, %	Prepare 3 samples (2x2 inches, 1/16±1/32 inch thick). Record initial weight of the specimen. Immerse the samples in a distilled water tank for 24 hrs at room temperature. Take out the samples and dry it with a dry cloth, then record final weight. Use the difference in weight to calculate the water absorption %.	25.0 Maximum
Coefficient of static friction	ASTM D1894	0.36 Maximum
Coefficient of kinetic friction	ASTM D1894	0.24 Maximum
Tensile strength, psi in the weakest direction	ASTM F152, Type 2	1200 Minimum

**BASIS OF ACCEPTANCE.** Sheet Gaskets will be accepted on the basis of the product appearing on the Department's Approved List.

**TEMPORARY TRAFFIC CONTROL DEVICES**

Make the following changes to the Standard Specification of May 1, 2008.

Pages 1027 and 1028 **Delete** §729-15 Arrow Panels and §729-16 Portable Variable-Message signs and **Replace** it with the following:

**729-15 ARROW PANELS**

**SCOPE.** This specification covers the material and performance requirements for arrow panels. Arrow panels are defined by NCHRP 350 as a Category IV device.

**MATERIAL REQUIREMENTS.** Arrow panels shall be signs with a matrix of illuminated elements capable of either flashing or sequential arrow displays that meets the requirements of the MUTCD. Arrow panels shall be equipped with a sign control console, mounted in a lockable, weather-resistant compartment.

Arrow panels shall not bear any advertising message or any other message that is not related to traffic control. A nonretroreflective logo or name and telephone number of the contractor or supplier may be located on the back of the arrow panel or on the arrow panel trailer. The logo shall not exceed 1 square foot. The name and telephone number shall not exceed 2 inch height. The rear face of the arrow panel shall contain one or more clear lamp(s) to indicate that the arrow board is operating properly.

**Truck-Mounted Series B.** Arrow panels consist of a 60 inch x 30 inch rectangular panel mounted at a minimum of 5 feet above the roadway. The arrow display shall be legible at a minimum distance of 3/4 mile on a bright, sunny day or a clear night when the sight line is unobstructed.

**Trailer-Mounted or Truck-Mounted Series C.** Arrow panels consist of a 96 inch x 48 inch rectangular panel mounted at a minimum of 7 feet above the roadway for trailer mounted arrow panels and 5 feet above the roadway for truck mounted arrow panels. Arrow panels shall be powered by self-contained engine-driven generator systems, capable of energizing the arrow displays for 72 hours unattended and shall be capable of being powered by 110V AC supply; solar-powered, capable of energizing the arrow displays continuously for 21 days unattended; or powered by a truck. Arrow panel operation controls shall be mounted in a lockable enclosure. The arrow display shall be legible at a minimum distance of 1.0 mi on a bright, sunny day or a clear night when the sight line is unobstructed.

**TESTING.** Manufacturers or material suppliers desiring to have Truck-Mounted Series B arrow panels considered for inclusion on the Approved List shall submit a material certification that the arrow panel conforms to this specification and the requirements of the MUTCD, and provide an arrow panel to the Director, Materials Bureau in Albany for initial field testing. Field testing will include evaluation of arrow panel operation during various light conditions for brightness, legibility, and angularity. The review process requires a minimum of 30 calendar days.

Manufacturers or material suppliers desiring to have Trailer-Mounted or Truck-Mounted Series C arrow panels considered for inclusion on the Approved List shall submit test results from the AASHTO National Transportation Product Evaluation Program (NTPEP), a material certification that the arrow panel conforms to this specification and the requirements of the MUTCD, and provide an arrow panel to the Director of the Materials Bureau in Albany for initial field testing. Field testing will include evaluation of arrow panel operation during various light conditions for brightness, legibility, and angularity. The review process requires a minimum of 30 calendar days.

## TEMPORARY TRAFFIC CONTROL DEVICES

**BASIS OF APPROVAL.** Truck-Mounted Series B arrow panels meeting the requirements of this specification and having satisfactory initial field test results will be placed on the Approved List.

Trailer-Mounted or Truck-Mounted Series C arrow panels meeting the requirements of this specification and satisfactory initial field test results, as well as satisfactory NTPEP test results will be placed on the Approved List. Trailer-Mounted or Truck-Mounted Series C arrow panels for which NTPEP test results have not been submitted may be provisionally placed on the Approved List for a maximum of one year. Arrow panels on the Approved List that have repeated poor evaluations will be removed from the Approved List.

**BASIS OF ACCEPTANCE.** Arrow panels will be accepted on the basis of the product appearing on the Approved List and a material certification that the product meets this specification and is the same as the one appearing on the Approved List.

### 729-16 PORTABLE VARIABLE-MESSAGE SIGNS (PVMS)

**SCOPE.** This specification covers the material and performance requirements for variable-message signs. Variable-message signs are defined by NCHRP 350 as a Category IV device.

**MATERIAL REQUIREMENTS.** Portable variable-message signs (PVMS) shall be tested by the National Transportation Product Evaluation Program (NTPEP) of the American Association of State and Highway Transportation Officials (AASHTO) demonstrating the arrow panel meets the requirements of this specification and the MUTCD. The PVMS shall be trailer mounted and equipped for use on public highways in accordance with NYS Vehicle and Traffic Law. The unit shall operate primarily from a solar-powered electrical system and shall be capable of energizing the message display for a minimum of 21 days without auxiliary charge. The electrical system shall consist of batteries and a solar array panel and on-board auxiliary charging system to enable the batteries to be recharged via a 110V AC connection.

The PVMS shall have a 3 line display with a minimum of 8 characters per line, and shall be capable of displaying 3 separate messages in a cyclical sequence. Characters shall be a minimum of 18 inches high. PVMS messages shall be legible from a distance of 900 feet or more in advance of the PVMS on highways with a posted pre-construction speed limit of 50 mph or greater. PVMS messages shall be legible from a distance of 680 feet or more in advance of the PVMS on highways with a posted pre-construction speed limit of 45 mph or less. PVMS shall not bear any advertising message or any other message that is not related to traffic control. A nonretroreflective logo or name and telephone number of the contractor or supplier may be located on the back of the PVMS or on the PVMS trailer. The logo shall not exceed 1 square foot. The name and telephone number shall not exceed 1/2 inch in height.

The PVMS shall be equipped with a sign control console, mounted in a lockable, weather-resistant compartment. The sign controller shall have programmable memory capable of storing messages pertinent to planned construction activities, including emergency messages. The controller shall be equipped with 14 day calendar programming capability, providing the ability to start and stop the display of a minimum of three (3) different messages on a repeating schedule without an operator present. The controller shall be capable of producing an accurate log of all messages and the times they were displayed. The controller shall have programmable messages, display rate, and display interval settings. The controller shall blank the sign if the output voltage drops below the manufacturer's recommended output level.

The PVMS shall be equipped with control software using a Microsoft Windows operating system. The Contractor shall supply the Engineer with two copies of operating instructions for the PVMS and the control software. Electronic copies of software instructions are acceptable.

**A. Light-Emitting Diode (LED) Type.** The LED type PVMS shall have light-emitting diodes arranged in arrays and the arrays shall be arranged in a matrix for each character to be 7 pixels high by 5 pixels wide. The LED display shall have the ability to display characters at a minimum height of 18 inches. The controller shall provide a means of dimming the pixels.

**TEMPORARY TRAFFIC CONTROL DEVICES**

**B. Hybrid Flip-Disk Type.** The hybrid, flip-disk type PVMS shall have pixels consisting of individual electromagnetic disks with at least two (2) high-output amber LEDs. The disk face shall be covered with yellow prismatic retroreflective sheeting or an approved equal. The PVMS shall operate using both flip-disk and light-emitting diode (LED) during nighttime and low-light periods. The hybrid flip disk type shall be arranged in a matrix 7 disks high by 5 disks wide for each character at a minimum height of 18 inches.

**C. Cellular Communications Option.** The PVMS with cellular communications shall be equipped with a cellular telephone with cellular service and a modem capable of remotely operating the control software. The phone numbers for PVMS on a contract shall be sequential whenever possible to facilitate remote control of multiple devices. The unit shall accept a land line telephone connection mode without rewiring or modification. PVMS units with cellular communications shall be equipped with communications and control systems that are National Transportation Communications for ITS Protocol (NTCIP) compliant.

**D. Radar Option.** The PVMS with radar shall be equipped with a radar speed detection option, providing the system with the ability to determine the speed of an approaching vehicle and interrupt the programmed sequence with a special default message displaying the vehicle's speed. The unit shall collect and store vehicle speed data for retrieval.

**E. NTCIP Communication Protocol Option.** PVMS units that will be operated by the Department, typically from a Transportation Management Center (TMC) shall be equipped with communications and control systems that are National Transportation Communications for ITS Protocol (NTCIP) compliant.

**TESTING.** Manufacturers or material suppliers desiring to have PVMS considered for inclusion on the Approved List shall submit test results from the AASHTO National Transportation Product Evaluation Program (NTPEP), a material certification that the PVMS conforms to this specification and the requirements of the MUTCD, and provide a PVMS to the Director, Materials Bureau in Albany for initial field testing. Field testing will include evaluation of PVMS operation during various light conditions for brightness, legibility, and angularity. The initial testing process requires a minimum of 30 calendar days.

**BASIS OF APPROVAL.** PVMS meeting the specification, having satisfactory NTPEP test results, and having satisfactory initial field test results will be placed on the Approved List.

PVMS meeting the specification and having satisfactory initial field test results, that do not have NTPEP test results may be provisionally placed on the Approved List for a maximum of one year. PVMS on the approved list that have repeated poor evaluations will be removed from the Approved List.

**BASIS OF ACCEPTANCE.** PVMS will be accepted on the basis of the product appearing on the Approved List and a material certification that the product meets this specification and is the same as the one appearing on the Approved List.

**REFLECTORIZED SHEETING SIGN CHARACTERS**

Make the following changes to the Standard Specifications of May 1, 2008:

**Page 1036:**

*Delete* entirely Standard Spec 730-12 and *replace* with:

**“730-12 REFLECTORIZED SHEETING SIGN CHARACTERS (TYPE IV)**

**SCOPE.** These specifications cover the material requirements for Type IV reflectorized sheeting sign characters.

**MATERIAL REQUIREMENTS.** Type IV characters shall consist of cutout reflective sheeting material meeting the requirements of §730-05 Reflective Sheeting, Materials Designation 730-05.02 (Class B).

Characters or borders shall be applied directly to clean, dust-free reflective sheeting background panels. Characters or borders shall be applied mechanically with equipment and in a manner specified by the sheeting manufacturer. Borders shall be cut neatly and butt-joined at corners and panel joints.

**TESTING.** The Department reserves the right to conduct tests on samples taken by a representative of the Department as follows: 2% or a minimum of five (5) characters (whichever is the greater) for each size character used; and 2% or a minimum of 2 ft of border (whichever is greater) for each width of border used.

When performed, tests will be conducted in accordance with §730-05 Reflective Sheeting.

**BASIS OF ACCEPTANCE.** Type IV characters will be accepted on the basis of a material certification that the product conforms to this specification.”

**Page 1036:**

*Delete* entirely Standard Spec 730-13 and *replace* with:

**“730-13 REFLECTORIZED SHEETING SIGN CHARACTERS (TYPE V)**

**SCOPE.** These specifications cover the material requirements for Type V reflectorized sheeting sign characters.

**MATERIAL REQUIREMENTS.** Type V characters shall consist of a painted, screened, or reverse-screened application of paint, paste, or transparent color of a type and in a manner recommended by the manufacturer of the reflective material.

Reflective material used for reverse-screened signs shall meet the requirements of §730-05 **Reflective Sheeting**, Materials Designation 730-05.02 (Class B).

**TESTING.** The Department reserves the right to conduct tests on samples taken by a representative of the Department as follows: 2% or a minimum of five (5) characters (whichever is the greater) for each size character used; and 2% or a minimum of 2 ft of border (whichever is greater) for each width of border used.

When performed, tests will be conducted in accordance with §730-05 Reflective Sheeting.

**BASIS OF ACCEPTANCE.** Type V characters will be accepted on the basis of a material certification that the product conforms to this specification.”

**SUBSURFACE TENSILE ELEMENTS**

Make the following changes to the Standard Specifications dated May 1, 2008:

Page 1046, **Delete** SECTION 731 (VACANT) and **Replace** it with the following:

**SECTION 731 – SUBSURFACE TENSILE ELEMENTS****731-01 SOIL NAIL TENDON ASSEMBLY**

**SCOPE.** This specification covers the material requirements for the components for assembling a soil nail tendon generally used in a Soil Nail Wall System (SNWS) to internally stabilize a cut and/or underpin a structure.

**MATERIAL REQUIREMENTS.**

**A. SNWS Solid Bar Nail Tendons.** Provide clean, straight, rust-free bar tendons meeting AASHTO M31 of Grade 60 or 75, ASTM A722 for Grade 150. The deformed bar, continuous without splices or welds, undamaged, bare or epoxy coated or encapsulated (as shown on the approved Working Drawings), shall be threaded a minimum of 6 in. on the wall anchorage end to allow proper attachment of bearing plate and nut. Threading may be continuous spiral, deformed ribbing provided by the bar deformations (continuous threadbars) or may be cut into a reinforcing bar. If threads are cut into a reinforcing bar, the bar shall be sized based on the net throat of the threads.

**B. SNWS Epoxy Coating.** Provide epoxy coating conforming to the requirements of §709-04 *Epoxy-Coated Bar Reinforcement*. The Bend Test requirements are waived.

**C. SNWS Encapsulation.** Provide a minimum 40 mil thick corrugated HDPE tube conforming to AASHTO M252 or corrugated PVC tube conforming to ASTM D1784, Class 13464-B. Encapsulation shall provide at least 3/16 in. of grout cover over the nail bar and be resistant to ultraviolet light degradation, normal handling stresses, and grouting pressures. Factory fabrication of the encapsulation is preferred. Upon the Engineer's approval, the encapsulation may be field fabricated if done in strict accordance with the manufacturer's recommendations.

**D. SNWS Centralizers.** Provide centralizers manufactured from Schedule 80 PVC pipe or tube, steel, or any material not detrimental to the nail steel, except that wood shall not be used, and approved by the Engineer.

**E. SNWS Bar Couplers.** Provide bar couplers capable of developing 100% of the Guaranteed Ultimate Tensile Strength (GUTS) of the bar as certified by the manufacturer.

**BASIS OF APPROVAL.** Soil Nail Tendons will be approved based on the evaluation of the design submittal detailing the requirements of the assembly.

**BASIS OF ACCEPTANCE.** Soil nail centralizers, epoxy coating or encapsulation will be accepted on the basis of a material certification that the product conforms to this specification. Solid bar nail tendons and bar couplers (if allowed) will be accepted on the basis of a material certification that the product conforms to this specification and certified mill test results from each heat specifying the ultimate strength, yield strength, elongation, and composition indicating conformance to the design submittal and specification.

**731-02 GROUTED TIEBACK ASSEMBLY**

**SCOPE.** This specification covers the material requirements for the components for assembling a grouted tieback generally used in a Grouted Tieback System (GTS) to internally stabilize and supplement the resisting force of an external support system retaining a cut and/or underpinning a structure.

## SUBSURFACE TENSILE ELEMENTS

### MATERIAL REQUIREMENTS.

**A. GTS Tendons.** Provide clean, straight, rust-free tendons meeting the following:

1. "Uncoated Seven-Wire Stress Relieved Strand for Prestressed Concrete" - ASTM A416, or "Uncoated Seven-Wire Compacted Stress Relieved Strand for Prestressed Concrete" - ASTM A779, or
  2. Continuously threaded "Uncoated High-Strength Steel Bar for Prestressing Concrete" - ASTM A722.
- The tendons shall be of such size that the design load does not exceed 53% of the Guaranteed Ultimate Tensile Strength (GUTS) of the tendons.

**B. GTS Couplers.** Provide couplers for tendons capable of developing 100% of the GUTS.

**C. GTS Sheath.** Provide a sheath for corrosion protection encasing the entire stressing length of the tendon. Acceptable sheaths for the stressing length shall be one of the following:

1. A polyethylene (PE) tube applied over a corrosion inhibiting grease coated strand. The polyethylene shall be Type II, III or IV as defined by ASTM D1248. The tubing shall have a minimum wall thickness of 60 mils.
2. A hot-melt extruded polypropylene tube applied over a corrosion inhibiting grease coated strand. The polypropylene shall PP 210 B55542-11 as defined as ASTM D4101. The tubing shall have a minimum wall thickness of 60 mils.
3. A corrugated PVC tube applied over a corrosion inhibiting grease coated strand. The PVC tube shall conform to ASTM D1784 Class 13464-B. The tubing shall have a minimum wall thickness of 60 mils.
4. A heat shrinkable tube coated with an elastic adhesive applied over bar tendons. Prior to shrinking the tube shall have a nominal wall thickness of at least 24 mils and the elastic adhesive inside the tube shall have a nominal thickness of 20 mils. A smooth bond breaker shall be placed around the heat shrinkable tube in the free length.

**D. GTS Grease.** Provide a grease compound for corrosion inhibiting and lubricating properties to completely cover the steel in the stressing length. Provide grease for the stressing length meeting the requirements shown in Table 731-02-1 *Grease Properties*:

TABLE 731-02-1 GREASE PROPERTIES			
Property		Test Method	Acceptance Criteria
Dropping Point		ASTM D566	Minimum 300° F
Oil Separation @ 160° F		FTMS 791B Method 321.2	0.5% Maximum by mass
Water Content		ASTM D95	0.1% Maximum
Flash Point		ASTM D92	Minimum 300° F
Accelerated Corrosion Test: 5% Salt Fog @ 100° F @ 5 mil, min. hrs, Q Panel Type S		ASTM B117	Rust Grade 7 or better after 1000 hrs. of exposure according to ASTM D610
Water Soluble Ions	Chlorides	ASTM D512	10 ppm Maximum
	Sulfides	ASTM D4500-S <sup>2</sup> E	10 ppm Maximum
	Nitrates	ASTM D3867	10 ppm Maximum
Soak Test: 5% Salt Fog @ 100° F @ 5 mil coating, Q Panel Type S. (Immerse panels 50% in a 5% salt solution and expose to salt fog).		ASTM B117 (modified)	No emulsification of the coating after 720 hrs. of exposure.
Sheathing Compatibility: 40 days @ 150° F	Hardness Change	ASTM D4289	15% Change
	Volume Change	ASTM D4289	10% Change
	Tensile Strength Change	ASTM D638	30% Change

**E. GTS Encapsulation.** Provide encapsulation consisting of a tube of corrugated PVC, high density

**SUBSURFACE TENSILE ELEMENTS**

polyethylene or steel. The encapsulation shall have sufficient thickness to resist damage due to shipping, handling and installation.

**F. GTS Centralizers and Spacers.** Provide centralizers and spacers consisting of plastic, steel or any material not detrimental to the tendon. Wood shall not be used. Centralizers and spacers shall permit free flow of grout. Combination centralizer/spacers will be permitted.

**G. GTS Trumpet.** Provide a trumpet integral with the bearing plate. The trumpet shall consist of an epoxy coated steel pipe or tube conforming to the requirements of ASTM A53 for pipe or ASTM A500 for tubing. The trumpet shall have an inside diameter equal to or larger than the hole in the bearing plate, and shall be long enough to accommodate movements of the structure during loading and testing. For encapsulated strand tendons, the trumpet shall be long enough to enable the tendon to make a transition from the diameter of the tendon in the stressing length to the diameter of the tendon at the anchor head without damaging the encapsulation. A seal to retain grease or grout within the trumpet shall be provided between the trumpet and the stressing length corrosion protection. If grout is used to fill the trumpet, then the seal shall be a deformable seal. If grease is used to fill the trumpet, a description of the seal shall be submitted to the Engineer for approval.

**BASIS OF APPROVAL.** Grouted Tiebacks will be approved based on the evaluation of the design submittal detailing the requirements of the assembly.

**BASIS OF ACCEPTANCE.** Grouted Tieback Assembly will be accepted on the basis of a Material Certification for the grouted tieback centralizers and spacers, encapsulation, sheath, trumpet, and grease compound.

Grouted tieback tendons and couplers (if allowed) will be accepted on the basis of a material certification and certified mill test results from each heat specifying the ultimate strength, yield strength, elongation, and composition indicating conformance to the design submittal and this specification.



**ROCK BOLT ASSEMBLY**

Make the following changes to the Standard Specifications dated May 1, 2008 as modified by EI 08-047:

**Add** the following:

**731-03 – ROCK BOLT ASSEMBLY**

**SCOPE.** This specification covers the material requirements for the components for assembling a rock bolt generally used in reinforcing a rock slope or as part of a rock catchment system. The following materials are evaluated in this specification:

731.0301 – Rock Bolt Assembly, 1 in. Diameter Steel Bar

731.0302 – Rock Bolt Assembly, 1 ¼ in. Diameter Steel Bar

**MATERIAL REQUIREMENTS.**

**A. Bolts.** Provide bolts of at least Grade 150 (ASTM A722) prestressing steel of the diameter shown in the contract documents. Bolts must have rolled thread-like deformations over the entire length.

**B. Appurtenances.** Provide appurtenances as recommended by the bolt manufacturer for the size and grade bolt supplied, consisting of a steel bearing plate, a hardened washer, if required, and a convex bottom anchor nut. Two beveled or wedge washers per bolt may be required. The upper, or bearing washer, shall be countersunk on the side opposite the bevel to match the bottom of the anchor nut.

**C. Resin.** Provide resin of the two-component type, and of two different setting times, specifically manufactured for rock bolting. Use only resin that is within the unexpired shelf life designated on the package by the manufacturer.

Provide cartridges of the appropriate diameter as recommended by the manufacturer for the bolt/drill hole/cartridge diameter combination used. Furnish sufficient fast setting resin to fill 3 ft. of annular space in the bottom of the hole. Greater amounts of fast setting resin will be necessary in some rock types to meet the pull test requirements. Furnish slower setting resin with a setting time of no less than fifteen minutes. Install enough slow setting resin in the remainder of the hole to fully encapsulate the bolt.

**BASIS OF ACCEPTANCE.** Rock bolts and appurtenances will be accepted on the basis of a material certification that the product conforms to this specification and certified mill test results from each heat specifying the ultimate strength, yield strength, elongation, and composition indicating conformance to the specification. Larger diameter bolts are acceptable if supplied at no additional cost to the State.

Rock bolt resin will be accepted on the basis of a material certification that the product conforms to this specification.

**SECTION 733 – EARTHWORK MATERIALS**

Make the following changes to the Standard Specifications dated May 1, 2008:

Page **1049**, **Delete** SECTION 733 AND 734 (VACANT) and **Replace** it with the following:

**SECTION 733 – EARTHWORK MATERIALS**

**733-01 – CONTROLLED LOW STRENGTH MATERIAL (CLSM)**

**SCOPE.** This specification covers the material requirements and methods of testing CLSM generally used as a replacement for compacted soil backfill in sites where performing compaction is difficult and labor intensive.

**GENERAL.** Provide CLSM with a mix design based on the unconfined compressive strength requirements of the specification. Design the CLSM mix so that it sets within the time stated in the contract documents. If no set time is required, design the set time to meet Contractor’s operational requirements.

**MATERIAL REQUIREMENTS.**

**A. MATERIAL.** Provide CLSM containing cement and water. At the Contractor’s option, it may also contain fly ash (unless the No Fly Ash item is specified), aggregate, or chemical admixtures in any proportions such that the final product meets the strength and flow consistency requirements included in this specification.

Provide materials meeting the requirements of Table 733-01A *CLSM Material Requirements*:

<b>TABLE 733-01A CLSM MATERIAL REQUIREMENTS</b>	
<b>Material</b>	<b>Subsection</b>
Portland Cement, Type 1 or Type 2	§701-01
Water	§712-01

If used, provide materials meeting Table 733-01B *Requirements for Optional CLSM Material*:

<b>TABLE 733-01B REQUIREMENTS FOR OPTIONAL CLSM MATERIAL</b>	
<b>Material</b>	<b>Subsection</b>
Aggregate Gradation	§703-07 <i>Concrete Sand</i>
Fly Ash	Provide fly ash that complies with the requirements of §711-10 <i>Fly Ash</i> . Waive the loss on ignition requirement.
Chemical Admixtures	Provide admixtures that comply with §711-08 <i>Admixtures</i> . The mix may include high air generators manufactured for CLSM.

**B. UNCONFINED COMPRESSIVE STRENGTH.** Provide CLSM with a mix design generating an unconfined compressive strength in Table 733-01C *CLSM Unconfined Compressive Strength*:

<b>TABLE 733-01C CLSM UNCONFINED COMPRESSIVE STRENGTH</b>	
<b>Test Age</b>	<b>Unconfined Compressive Strength</b>
28 days	40 psi ≤ $q_u$ ≤ 150 psi

**SAMPLING AND TESTING.**

**A. SPREAD DIAMETER.** Provide CLSM that has, at the time of placement, a minimum diameter spread of 8 in. as determined by a Department Representative in accordance with ASTM D6103 *Standard Test Method for Flow Consistency of Controlled Low Strength Material (CLSM)*.

**B. CYLINDER CAST.** A Department Representative will cast three (3) specimens (cylinders) for each batch of CLSM for QA testing.

## SECTION 733 – EARTHWORK MATERIALS

**BASIS OF APPROVAL.** Mix designs will be approved based on certification of the unconfined compressive strength meeting the requirements of the specification.

**BASIS OF ACCEPTANCE.** CLSM material will be accepted on the jobsite upon submission of an approved mix design to the Engineer.

CLSM material will be accepted as part of the contract quantities upon successful completion of the field tests and Quality Assurance (QA) program indicating the material conforms to the specification. In addition to the requirements of Section 106 *Control of Material*, the Department will sample and test CLSM to assure quality. Three (3) specimens (cylinders) will be cast for each batch in accordance with this specification and tested for unconfined compressive strength. A batch is defined as the amount of material that can be mixed at one time.

### 733-02 – MECHANICALLY STABILIZED EARTH SYSTEM BACKFILL MATERIAL

**SCOPE.** This specification covers the material requirements and methods of testing backfill material generally used for the construction of a MSES.

**SAMPLING.** Perform material tests and assurance methods pertaining to the backfill requirements in conformance with the procedures contained in the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**GENERAL.** Provide backfill material for any MSES from a single source unless prior approval for use of designated multiple sources is obtained from the Director, GEB.

#### MATERIAL REQUIREMENTS.

**A. STOCKPILE.** Stockpile the backfill material in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**B. GRADATION.** Provide backfill material of one of the following types:

**1. Type A.** Material consisting of any mineral (inorganic) soil, blasted or broken rock, or similar materials of natural origin, including mixtures thereof, and having a gradation in accordance with TABLE 733-02A *Backfill Gradation*.

TABLE 733-02A BACKFILL GRADATION	
Sieve Size Designation	Percentage Passing by Weight
4 in.	100
¼ in.	30-100
No. 40	0-60
No. 200	0-15

**2. Type B.** Material consisting of crushed stone conforming to §703-02 *Coarse Aggregate*, Size Designation 2.

**3. Type C.** Material consisting of recycled Portland Cement Concrete Aggregate (RCA). Type C backfill consists of at least 95%, by weight, of RCA and is free from organic and other deleterious material. Material may contain up to 5% by weight asphalt and/or brick. Gradation for Type C backfill conforms to Table 733-02A *Backfill Gradation*.

**4. Type D.** Material consisting of recycled Portland Cement Concrete Aggregate (RCA). Type D backfill consists of at least 95%, by weight, of RCA and is free from organic and other deleterious material. Material may contain up to 5% by weight asphalt and/or brick. Gradation for Type D backfill conforms to §703-02 *Coarse Aggregate*, Size Designation 2.

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**C. PLASTICITY INDEX.** Provide material having a Plasticity Index not exceeding 5.

**D. DURABILITY.** Provide material having a Magnesium Sulfate Soundness loss less than 30 percent.

**E. CORROSION POTENTIAL (METAL REINFORCING AND/OR CONNECTORS ONLY).** The Department will test for the corrosion potential of any system with exposed metal in the backfill. Stockpiled materials will be tested for resistivity and pH, and may be tested for sulfides at the Department's discretion. Material failing to meet the following requirements of Table 733-02B *Resistivity, Soluble Salts and pH Requirements*, will be rejected except as specified below:

Material failing to meet the resistivity criterion may be tested for sulfate and chlorides. Material meeting the criteria for both sulfates and chlorides and having a resistivity greater than 10 ohm-m will be acceptable. Chemical testing (i.e. resistivity, sulfate ion content, sulfide ion content, and chloride ion content) is not required for Type B backfill or for Type D backfill.

TABLE 733-02B RESISTIVITY, SOLUBLE SALTS AND pH REQUIREMENTS			
Property		Test Method	Acceptance Criteria
Resistivity		AASHTO T288	$\rho \geq 30$ ohm-m
Chlorides		AASHTO T291 Method A	$Cl^- \leq 100$ mg/kg
Sulfates		AASHTO T290 Method A, gravimetric	$SO_4^{2-} \leq 200$ mg/kg
		AASHTO T290 Method B, turbidmetric	
Sulfides		NYSDOT Test Method 711-12C	$S^{2-} \leq 300$ mg/kg
pH	Type A or C	NYSDOT GTM-24	$5 \leq pH \leq 10$
	Type B or D	NYSDOT GTM-24	$5 \leq pH \leq 12.5$

**BASIS OF APPROVAL.** Stockpiles of MSES backfill material will be approved by the GEB in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*” and the procedural directives of the GEB.

**BASIS OF ACCEPTANCE.** Backfill material from approved stockpiles will be accepted on the contract site by delivery ticket. Each delivery ticket shall identify the Suppliers name, date, NYSDOT contract number, stockpile number, item number and quantity.

Backfill material from approved stockpiles will be accepted as part of the MSES upon confirmation that the material gradation type provided by the Contractor, outlined in §733-02B *Gradation*, conforms to the MSES submittal provided by the wall system designer-supplier and upon successful completion of the Quality Assurance (QA) program indicating that the material conforms to the specification. In addition to the requirements of Section 106 *Control of Material*, the Department will sample and test backfill taken from behind the newly-constructed wall to assure quality. The number of samples and their locations (plan and elevation) will be determined by the quantity of material to be used in each MSES structure. Results from chemical testing (i.e. resistivity, sulfate ion content, sulfide ion content, and chloride ion content) can take several weeks to obtain.

### 733-03 – GEOSYNTHETIC REINFORCED EARTH SYSTEM SLOPE BACKFILL MATERIAL

**SCOPE.** This specification covers the material requirements and methods of testing backfill material generally used for the construction of over steepened slopes utilizing Geosynthetic Reinforced Earth System (GRES).

**SAMPLING.** Obtain a representative sample of the source for the performance of a gradation analysis in accordance with the procedures contained in the geotechnical test method “*Test Method for the Grain-Size Analysis*”

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of Granular Soil Materials”.

**MATERIAL REQUIREMENTS.** Any mineral (inorganic) soil, blasted or broken rock, or similar materials of natural origin, including mixtures thereof, may be suitable materials subject to the following:

**A. GRADATION.** Provide backfill material conforming to the following:

**1. Gradation Spread.** Provide backfill material having a gradation in accordance with TABLE 733-03A *Backfill Gradation*.

TABLE 733-03A BACKFILL GRADATION	
Sieve Size Designation	Percentage Passing by Weight
6 in.	100
No. 40	0-60
No. 200	0-40

**2. Gradation Ratio.** Provide backfill material having a gradation ratio in accordance with the following formula:

$$\frac{\text{Percent Pass. No.200 sieve}}{\text{Percent Pass. No.40 sieve}} \times 100 \leq 70$$

The gradation is evaluated at the contract level.

**BASIS OF APPROVAL.** Sources will be approved upon successful completion of the gradation tests indicating that the material conforms to the specification.

**BASIS OF ACCEPTANCE.** Backfill material will be accepted based upon successful completion of the gradation tests indicating that the material conforms to the specification.

### 733-04 – SUBBASE COURSE

**SCOPE.** This specification covers the material requirements and methods of testing subbase material generally used in the construction of a pavement structure. The following subbase types are evaluated in this specification:

733.0401 – Subbase Course, Type 1

733.0402 – Subbase Course, Type 2

733.0403 – Subbase Course, Type 3

733.0404 – Subbase Course, Type 4

Subbase course types are based on the gradation of the material as outlined in Table 733-04A *Subbase Gradation*.

**SAMPLING.** Perform material tests and assurance methods pertaining to subbase requirements in conformance with the procedures contained in the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**GENERAL.** Provide suitable material conforming to the requirements of Section 203 *Excavation and Embankment* and to the requirements contained herein.

**MATERIAL REQUIREMENTS.** For Types 1, 3 and 4 furnish materials consisting of approved Blast Furnace Slag, Stone, Sand, and Gravel, or blends of these materials.

For Type 2, furnish materials consisting of approved Blast Furnace Slag or of Stone which is the product of crushing or blasting ledge rock, or a blend of Blast Furnace Slag and of Stone.

**A. STOCKPILE.** Stockpile subbase material in accordance with the geotechnical control procedure

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“Procedure for the Control and Quality Assurance of Granular Materials” except as noted herein.

**1. Type 3.** Material furnished under Type 3 will not be required to be stockpiled unless it contains RCA, glass, or Corian®.

**2. Recycled Materials, Alternate C.** Stockpiling of the Reclaimed Asphalt Pavement (RAP) for Alternate C is not required.

**B. GRADATION.** Provide subbase material having a gradation in accordance with TABLE 733-04A *Subbase Gradation*.

TABLE 733-04A SUBBASE GRADATION				
Sieve Size Designation	Percentage Passing by Weight			
	Type 1	Type 2	Type 3	Type 4
4 in.	-	-	100	-
3 in.	100	-	-	-
2 in.	90-100	100	-	100
¼ in.	30-65	25-60	30-75	30-65
No. 40	5-40	5-40	5-40	5-40
No. 200	0-10	0-10	0-10	0-10

**C. PLASTICITY INDEX.** Provide material having a Plasticity Index based on the material passing the No. 40 mesh sieve equal to or less than 5.0.

**D. DURABILITY.**

**1. Types 1, 2 and 4.** Provide material for Types 1, 2 and 4 having a Magnesium Sulfate Soundness loss less than 20% after four (4) cycles, unless material meeting the requirements of *Alternate C* (F. Recycled Materials) is used.

**2. Type 3.** Provide material for Type 3 having a Magnesium Sulfate Soundness loss less than 30% after four (4) cycles.

**E. ELONGATED PARTICLES.** A flat or elongated particle is defined herein as one which has its greatest dimension more than three (3) times its least dimension. Provide material consisting of particles where not more than 30%, by weight, of the particles retained on a ½ in. sieve is flat or elongated. When the State elects to test for this requirement, material with a percentage greater than 30 will be rejected. Acceptance for this requirement will normally be based on a visual inspection by the Regional Geotechnical Engineer.

**F. RECYCLED MATERIALS.** The following materials are an acceptable replacement for Types 1, 3 and 4. Only one alternate shall be selected for use per stockpile.

- **Alternate A.** Recycled Portland Cement Concrete Aggregate (RCA) meeting the requirements of §733-07 Recycled Portland Cement Concrete Aggregate, Alternate A.
- **Alternate B.** Recycled Portland Cement Concrete Aggregate (RCA) meeting the requirements of §733-07 Recycled Portland Cement Concrete Aggregate, Alternate B.
- **Alternate C.** Reclaimed Asphalt Pavement (RAP) meeting the requirements of §733-06 Reclaimed Asphalt Pavement for Earthwork and Subbase.
- **Alternate D.** Blends of Blast Furnace Slag, Stone, Sand, and Gravel, with not more than 30% by

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weight of glass. Glass shall meet the requirements of §733-05 Glass Backfill.

- **Alternate E.** Blend of Alternate A with not more than 5% by weight of Corian®. Corian® shall meet the requirements of §733-19 Corian® Backfill.
- **Alternate F.** Blend of Alternate B with not more than 5% by weight of Corian®. Corian® shall meet the requirements of §733-19 Corian® Backfill.

**G. MATERIAL FOR TEMPORARY WORK.** Material used as a subbase for the construction of temporary work may be approved by a Departmental Geotechnical Engineer by visual inspection in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”. Do not permanently incorporate material so approved into the work without following the appropriate acceptance procedure.

**BASIS OF APPROVAL.** Stockpiles of subbase material will be approved in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**BASIS OF ACCEPTANCE.** Subbase material from approved stockpiles will be accepted upon successful completion of the Quality Assurance (QA) program indicating that the material conforms to the specification. If the QA program is not introduced, subbase material will be accepted upon the basis of the stockpile approval.

### 733-05 – GLASS BACKFILL

**SCOPE.** This specification covers the material requirements and methods of assessing glass backfill material generally used as fill material.

**SAMPLING.** Perform material tests and assurance methods pertaining to the glass backfill requirements in conformance with the procedures for stockpiled granular materials contained in the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

#### MATERIAL REQUIREMENTS.

**A. STOCKPILE.** Stockpile glass backfill material in accordance with the procedures for stockpiled granular materials contained in the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**B. GRADATION.** Provide glass crushed to a maximum particle size of 3/8 in. The material shall be subject to visual inspection by the Regional Geotechnical Engineer.

**C. CHARACTERISTICS.** Glass may contain up to a maximum of 5% by volume of china, ceramics, plate glass products, paper, plastics or other deleterious materials.

**BASIS OF APPROVAL.** Glass backfill will be approved in accordance with the procedures for stockpiled granular materials contained in the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

The material shall be subject to visual inspection by the Regional Geotechnical Engineer.

**BASIS OF ACCEPTANCE.** Approved glass backfill material will be accepted upon successful completion of the Quality Assurance (QA) program indicating that the material conforms to the specification. If the QA program is not introduced, glass backfill material will be accepted upon the basis of the stockpile approval.

### 733-06 – RECLAIMED ASPHALT PAVEMENT FOR EARTHWORK AND SUBBASE

**SECTION 733 – EARTHWORK MATERIALS**

**SCOPE.** This specification covers the material requirements and methods of assessing Reclaimed Asphalt Pavement (RAP) generally used as fill material.

**SAMPLING.** Perform material tests and assurance methods pertaining to the RAP requirements in conformance with the procedures contained in the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**MATERIAL REQUIREMENTS.**

**A. SOURCE.** Provide written documentation that the reclaimed bituminous material originated on a Department project. Include an identifier, such as State Highway number, construction contract number or Department Project Identification Number (PIN).

**B. GRADATION.**

**1. Gradation Spread.** Provide RAP having a maximum top size of 2 in. at the time of placement.

**2. Elongated Particles.** A flat or elongated particle is defined herein as one which has its greatest dimension more than three (3) times its least dimension. Provide material consisting of particles where not more than 30%, by weight, of the particles retained on a ½ in. sieve are flat or elongated. When the State elects to test for this requirement, material with a percentage greater than 30 will be rejected. Acceptance for this requirement will normally be based on a visual inspection by the Regional Geotechnical Engineer.

**C. CHARACTERISTICS.** Bituminous material that is well-graded from coarse to fine and free from organic or other deleterious material, including tar. This material is at least 95%, by weight, reclaimed bituminous material. No soundness or Plasticity Index testing will be required.

**BASIS OF APPROVAL.** RAP will be approved based upon a visual inspection by the Regional Geotechnical Engineer.

**BASIS OF ACCEPTANCE.** If this material becomes unstable during construction, it may be necessary to add a mixture of natural suitable material to the RAP. Acceptance of the final product will be based on an evaluation by the Engineer.

Approved RAP will be accepted upon successful completion of the Quality Assurance (QA) program indicating that the material conforms to the specification. If the QA program is not introduced, RAP will be accepted upon the basis of the visual inspection by the Regional Geotechnical Engineer.

**733-07 – RECYCLED PORTLAND CEMENT CONCRETE AGGREGATE**

**SCOPE.** This specification covers the material requirements and methods of testing Recycled Portland Cement Concrete Aggregate (RCA) generally used as fill material. The following RCA types are evaluated in this specification:

733.0701 – Recycled Portland Cement Concrete Aggregate

733.0702 – Recycled Portland Cement Concrete Aggregate Mixture

**SAMPLING.** Perform material tests and assurance methods pertaining to the RCA requirements in conformance with the procedures contained in the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**MATERIAL REQUIREMENTS.**



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**A. STOCKPILE.** Stockpile RCA in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

If RCA comes from other than a Department project, provide documentation showing that the material obtained is from a NYSDEC registered or permitted construction and demolition (C&D) debris processing facility as specified in Section 360-16.1 of 6NYCRR Part 360, “Solid Waste Management Facilities”.

### B. GRADATION.

**1. Gradation Spread.** Provide RCA meeting the gradation requirements for the appropriate item of use.

**2. Elongated Particles.** A flat or elongated particle is defined herein as one which has its greatest dimension more than three (3) times its least dimension. Provide material consisting of particles where not more than 30%, by weight, of the particles retained on a ½ in. sieve are flat or elongated. When the State elects to test for this requirement, material with a percentage greater than 30 will be rejected. Acceptance for this requirement will normally be based on a visual inspection by the Regional Geotechnical Engineer.

### C. CHARACTERISTICS.

**1. Alternate A.** At least 95%, by weight, of Recycled Portland Cement Concrete Aggregate (RCA), and free from organic and other deleterious material. This material may contain up to 5% by weight asphalt and/or brick.

**2. Alternate B.** A mixture of Recycled Portland Cement Concrete Aggregate (RCA) conforming to Alternate A above mixed with stone, sand, gravel or blast furnace slag. This material may contain up to 5% by weight asphalt and/or brick.

**BASIS OF APPROVAL.** Stockpiles of RCA will be approved in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**BASIS OF ACCEPTANCE.** RCA from approved stockpiles will be accepted upon successful completion of the Quality Assurance (QA) program indicating that the material conforms to the specification. If the QA program is not introduced, RCA will be accepted upon the basis of the stockpile approval.

## 733-08 – EMBANKMENT IN PLACE

**SCOPE.** This specification covers the material requirements and methods of assessing material generally used for embankment construction.

**MATERIAL REQUIREMENTS.** In general, any mineral (inorganic) soil, blasted or broken rock and similar materials of natural or man made (i.e. recycled) origin, including mixtures thereof, are considered suitable materials.

**A. GRADATION.** Provide suitable backfill material having no particles with a dimension in excess of two-thirds of the loose lift thickness controlled by the compaction equipment supplied by the Contractor.

Glass incorporated into embankments shall be thoroughly mixed with other suitable material so that Glass constitutes no more than 30% by weight anywhere in the embankment.

The material shall be subject to visual inspection by the Engineer.

**BASIS OF ACCEPTANCE.** Embankment material will be accepted upon visual inspection by the Engineer.

## 733-09 – SELECT BORROW

## SECTION 733 – EARTHWORK MATERIALS

**SCOPE.** This specification covers the material requirements and methods of testing select borrow material generally used for backfilling in areas beneath the watertable.

**SAMPLING.** Perform material tests and quality assurance methods pertaining to the backfill requirements in conformance with the procedures for non-stockpiled materials contained in the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

### MATERIAL REQUIREMENTS.

**A. SOURCE.** Provide backfill material from a source approved in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**B. GRADATION.** Provide material consisting of rock, stone, slag, cobbles, or gravel, substantially free of shale or other soft, poor durability particles having no particles greater than 3 ft. in maximum dimension. Of the portion passing the 4 in. square sieve, the material shall have a gradation in accordance with TABLE 733-09A *Select Borrow Gradation*.

<b>TABLE 733-09A SELECT BORROW GRADATION</b>	
<b>Sieve Size Designation</b>	<b>Percentage Passing by Weight</b>
No. 40	0-70
No. 200	0-15

The gradation is evaluated at the project level.

**C. DURABILITY.** Provide material having a Magnesium Sulfate Soundness loss less than 35%.

**D. COMPOSITION.** RAP shall not be used.

**BASIS OF APPROVAL.** Sources will be approved in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

A preceding source evaluation will be valid for the time identified in the manual. For sources without a current evaluation, samples shall be obtained under the direction of the Departmental Geotechnical Engineer and will be tested and evaluated by the Geotechnical Engineering Bureau.

**BASIS OF ACCEPTANCE.** Approved select borrow backfill material from approved sources will be accepted upon successful completion of the gradation tests and Quality Assurance (QA) program indicating that the material conforms to the specification. If the QA program is not introduced, approved select borrow material will be accepted upon successful completion of the gradation tests.

### 733-10 – SELECT FILL

**SCOPE.** This specification covers the material requirements and methods of testing select fill material generally used for backfilling in areas beneath the watertable.

**SAMPLING.** The sampling procedure contained in §733-09 *Select Borrow* shall apply.

**MATERIAL REQUIREMENTS.** The material requirements contained in §733-09 *Select Borrow* shall apply.

**BASIS OF APPROVAL.** The basis of approval contained in §733-09 *Select Borrow* shall apply.

**BASIS OF ACCEPTANCE.** The basis of acceptance contained in §733-09 *Select Borrow* shall apply.

### 733-11 – SELECT GRANULAR FILL

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**SCOPE.** This specification covers the material requirements and methods of testing select granular fill material generally used for backfilling around pipes. The following materials are evaluated in this specification:

733.1101 – Select Granular Fill (Typical)

733.1102 – Select Granular Fill for Corrugated Aluminum Pipe

**SAMPLING.** Perform material tests and quality assurance methods pertaining to the backfill requirements in conformance with the procedures for non-stockpiled materials contained in the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**MATERIAL REQUIREMENTS.**

**A. SOURCE.** Provide backfill material from an approved source in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**B. GRADATION.** Provide material consisting of rock, stone, slag, cobbles, or gravel, substantially free of shale or other soft, poor durability particles and conforming to the following requirements:

1. **Typical.** Except when used as backfill material for aluminum pipe with Type IR corrugations (Spiral Rib Pipe), the material shall have a gradation in accordance with TABLE 733-11A *Select Granular Fill Gradation*.

TABLE 733-11A SELECT GRANULAR FILL GRADATION	
Sieve Size Designation	Percentage Passing by Weight
4 in.	100
No. 40	0-70
No. 200	0-15

2. **Exception.** When used as backfill for Corrugated Aluminum Pipe, Type 1R (Spiral Rib Pipe) 100% of the material shall also pass the 2 in. sieve.

The gradation is evaluated at the project level.

**C. DURABILITY.** Provide materials substantially free of shale and soft, poor durability particles. Provide material having a Magnesium Sulfate Soundness loss less than 30%.

**D. COMPOSITION.** RAP shall not be used.

When used as backfill for aluminum pipe, the material shall be free of Portland cement or Portland cement concrete.

**E. pH.** Where the State elects to test for this requirement, the material shall have a pH in accordance with TABLE 733-11B *Select Granular Fill pH Requirement*.

TABLE 733-11B SELECT GRANULAR FILL pH REQUIREMENT		
Property	Test Method	Acceptance Criteria
pH	NYSDOT GTM-24	$5 \leq pH \leq 10$

When RCA is used as backfill in a non-aluminum pipe application, the pH requirements are waived.

**BASIS OF APPROVAL.** Sources will be approved in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

A preceding source evaluation will be valid for the time identified in the manual. For sources without a current evaluation, samples shall be obtained under the direction of the Departmental Geotechnical Engineer and will be tested and evaluated by the Geotechnical Engineering Bureau.

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**BASIS OF ACCEPTANCE.** Approved select granular fill backfill material from approved sources will be accepted upon successful completion of the gradation tests and Quality Assurance (QA) program indicating that the material conforms to the specification. If the QA program is not introduced, approved select granular fill backfill material will be accepted upon successful completion of the gradation tests.

**733-12 – SELECT GRANULAR FILL SLOPE PROTECTION**

**SCOPE.** This specification covers the material requirements and methods of testing select granular fill slope protection material generally used for stabilizing sloughing slopes. The following materials are evaluated in this specification:

- 733.1201 – Select Granular Fill Slope Protection (Blasted Rock)
- 733.1202 – Select Granular Fill Slope Protection (Typical)

**SAMPLING.** Perform material tests and quality assurance methods pertaining to the backfill requirements in conformance with the procedures for non-stockpiled materials contained in the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**MATERIAL REQUIREMENTS.**

**A. SOURCE.** Provide backfill material from an approved source in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**B. GRADATION.** Provide material consisting of rock, stone, slag, cobbles, or gravel, substantially free of shale or other soft, poor durability particles.

1. Broken or blasted unweathered rock used for this item shall be well graded, having no particles greater than 24 in. in maximum dimension, and be substantially free from particles greater than 12 in. in maximum dimension, containing little or no material passing the No. 10 mesh sieve.
2. All materials, other than broken or blasted unweathered rock, shall have a gradation in accordance with TABLE 733-12A *Select Granular Fill Slope Protection Gradation*.

<b>TABLE 733-12A SELECT GRANULAR FILL SLOPE PROTECTION GRADATION</b>	
<b>Sieve Size Designation</b>	<b>Percentage Passing by Weight</b>
24 in. maximum dimension	100
6 in. maximum dimension	90-100
2 in. square sieve	0-30
¼ in. sieve	0-10

The gradation is evaluated at the project level.

**C. DURABILITY.** Provide material having a Magnesium Sulfate Soundness loss less than 35%.

**BASIS OF APPROVAL.** Sources will be approved in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

A preceding source evaluation will be valid for the time identified in the manual. For sources without a current evaluation, samples shall be obtained under the direction of the Departmental Geotechnical Engineer and will be tested and evaluated by the Geotechnical Engineering Bureau.

**BASIS OF ACCEPTANCE.** Approved select granular fill slope protection backfill material from approved sources will be accepted upon successful completion of the gradation tests and Quality Assurance (QA) program indicating that the material conforms to the specification. If the QA program is not introduced, approved select granular fill slope protection backfill material will be accepted upon successful completion of the gradation tests.

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## 733-13 – SELECT GRANULAR SUBGRADE

**SCOPE.** This specification covers the material requirements and methods of testing select granular subgrade material generally used for backfilling undercuts. The following materials are evaluated in this specification:

- 733.1301 – Select Granular Subgrade (Blasted Rock)
- 733.1302 – Select Granular Subgrade (Typical)
- 733.1303 – Select Granular Subgrade (RCA)
- 733.1304 – Select Granular Subgrade (RCA Mixture)
- 733.1305 – Select Granular Subgrade (RAP)

**SAMPLING.** Perform material tests and quality assurance methods pertaining to the backfill requirements in conformance with the procedures for non-stockpiled materials contained in the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**MATERIAL REQUIREMENTS.**

**A. SOURCE.** Provide backfill material from an approved source in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**B. GRADATION.** Provide material consisting of rock, stone, slag, cobbles, or gravel, substantially free of shale or other soft, poor durability particles.

1. Well graded rock may be used for this item. Particles shall not exceed 12 in. in greatest dimension nor  $\frac{2}{3}$  of the loose lift thickness, whichever is less.
2. All materials, other than well graded rock, furnished under this item shall have no particles greater than 6 in. in maximum dimension. Of the portion passing the 4 in. square sieve, the material shall have a gradation in accordance with TABLE 733-13A *Select Granular Subgrade Gradation*.

TABLE 733-13A SELECT GRANULAR SUBGRADE GRADATION	
Sieve Size Designation	Percentage Passing by Weight
¼ in.	30-100
No. 40	0-50
No. 200	0-10

The gradation is evaluated at the project level.

**C. DURABILITY.** Provide material having a Magnesium Sulfate Soundness loss less than 35%.

**D RECYCLED MATERIALS.** The following materials are an acceptable replacement for natural material:

- **Alternate A.** Recycled Portland Cement Concrete Aggregate (RCA) meeting the requirements of §733-07 Recycled Portland Cement Concrete Aggregate, Alternate A.
- **Alternate B.** Recycled Portland Cement Concrete Aggregate (RCA) meeting the requirements of §733-07 Recycled Portland Cement Concrete Aggregate, Alternate B.
- **Alternate C.** Reclaimed Asphalt Pavement (RAP) meeting the requirements of §733-06 Reclaimed Asphalt Pavement for Earthwork and Subbase.

**BASIS OF APPROVAL.** Sources will be approved in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

A preceding source evaluation will be valid for the time identified in the manual. For sources without a current evaluation, samples shall be obtained under the direction of the Departmental Geotechnical Engineer and will be

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tested and evaluated by the Geotechnical Engineering Bureau.

**BASIS OF ACCEPTANCE.** Approved select granular subgrade backfill material from approved sources will be accepted upon successful completion of the gradation tests and Quality Assurance (QA) program indicating that the material conforms to the specification. If the QA program is not introduced, approved select granular subgrade backfill material will be accepted upon successful completion of the gradation tests.

**733-14 – SELECT STRUCTURAL FILL**

**SCOPE.** This specification covers the material requirements and methods of testing select granular fill material generally used for backfilling behind structures.

**SAMPLING.** The sampling procedure contained in §733-11 *Select Granular Fill* shall apply.

**MATERIAL REQUIREMENTS.** The material requirements contained in §733-11 *Select Granular Fill* shall apply.

**BASIS OF APPROVAL.** The basis of approval contained in §733-11 *Select Granular Fill* shall apply.

**BASIS OF ACCEPTANCE.** The basis of acceptance contained in §733-11 *Select Granular Fill* shall apply.

**733-15 – SAND BACKFILL**

**SCOPE.** This specification covers the material requirements and methods of testing sand backfill generally used for backfilling around utilities.

**SAMPLING.** Perform material tests and quality assurance methods pertaining to the backfill requirements in conformance with the procedures for non-stockpiled materials contained in the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**MATERIAL REQUIREMENTS.**

**A. SOURCE.** Provide backfill material from an approved source in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**B. GRADATION.** Provide material have a gradation in accordance with TABLE 733-15A *Sand Backfill Gradation*.

TABLE 733-15A SAND BACKFILL GRADATION	
Sieve Size Designation	Percentage Passing by Weight
½ in.	100
¼ in.	90-100
No. 200	0-5

The gradation is evaluated at the project level.

**C. DURABILITY.** Provide materials substantially free of shale and soft, poor durability particles.

**D. pH.** Where the State elects to test for this requirement, the material shall have a pH in accordance with TABLE 733-15B *Sand Backfill pH Requirement*.

TABLE 733-15B SAND BACKFILL pH REQUIREMENT		
Property	Test Method	Acceptance Criteria

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<b>TABLE 733-15B SAND BACKFILL pH REQUIREMENT</b>		
<i>pH</i>	NYSDOT GTM-24	$5 \leq pH \leq 10$

**BASIS OF APPROVAL.** Sources will be approved in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

A preceding source evaluation will be valid for the time identified in the manual. For sources without a current evaluation, samples shall be obtained under the direction of the Departmental Geotechnical Engineer and will be tested and evaluated by the Geotechnical Engineering Bureau.

**BASIS OF ACCEPTANCE.** Approved sand backfill material from approved sources will be accepted upon successful completion of the gradation tests and Quality Assurance (QA) program indicating that the material conforms to the specification. If the QA program is not introduced, approved sand backfill material will be accepted upon successful completion of the gradation tests.

**733-16 – WINTER EARTHWORK**

**SCOPE.** This specification addresses the material requirements and methods of assessing earthwork materials placed during construction operations between November 1<sup>st</sup> and April 1<sup>st</sup>. The following materials are evaluated in this specification:

- 733.1601 – Winter Earthwork Material for Embankment In Place
- 733.1602 – Winter Earthwork Material for Select Borrow
- 733.1603 – Winter Earthwork Material for Select Fill
- 733.160401 – Winter Earthwork Material for Select Granular Fill (Typical)
- 733.160402 – Winter Earthwork Material for Select Granular Fill for Corrugated Aluminum Pipe
- 733.160501 – Winter Earthwork Material for Select Granular Subgrade (Blasted Rock)
- 733.160502 – Winter Earthwork Material for Select Granular Subgrade (Typical)
- 733.160503 – Winter Earthwork Material for Select Granular Subgrade (RCA)
- 733.160504 – Winter Earthwork Material for Select Granular Subgrade (RCA Mixture)
- 733.1606 – Winter Earthwork Material for Select Structural Fill
- 733.1607 – Winter Earthwork Material for GRES Slope Backfill

**SAMPLING.** Perform material tests and quality assurance methods pertaining to the backfill requirements in conformance with the procedures contained in the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**MATERIAL REQUIREMENTS.**

**A. SOURCE.** Provide unfrozen backfill material from an approved source in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**B. GRADATION.**

**1. Winter Earthwork Material for Embankment In Place.** Provide material consisting of rock, stone, slag, cobbles, or gravel, substantially free of shale or other soft, poor durability particles. The material shall have no particles greater than 12 in. in maximum dimension. The material shall have a gradation in accordance with TABLE 733-16A Gradation of Winter Earthwork Material.

<b>TABLE 733-16A GRADATION OF WINTER EARTHWORK MATERIAL</b>	
<b>Sieve Size Designation</b>	<b>Percentage Passing by Weight</b>
Maximum Dimension	100
0.5(Maximum Dimension)	0-50
¼ in.	0-10

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TABLE 733-16A GRADATION OF WINTER EARTHWORK MATERIAL	
No. 200	0-4

The gradation is evaluated at the project level.

**2. Winter Earthwork Material for Select Borrow.** Provide material meeting the requirements of §733-09 *Select Borrow* with the following gradation adjustment:

The material shall have no particles greater than 3 ft. in maximum dimension. The material shall have a gradation in accordance with TABLE 733-16A Gradation of Winter Earthwork Material. The gradation is evaluated at the project level.

**3. Winter Earthwork Material for Select Fill.** The material requirements contained in §733-16 B.2. *Winter Earthwork Material for Select Borrow* shall apply.

**4. Winter Earthwork Material for Select Granular Fill.** Provide material meeting the requirements of §733-11 *Select Granular Fill* with the following gradation adjustment:

The material shall have no particles greater than 4 in. in maximum dimension. The material shall have a gradation in accordance with TABLE 733-16A Gradation of Winter Earthwork Material. The gradation is evaluated at the project level.

**5. Winter Earthwork Material for Select Granular Subgrade.** Provide material meeting the requirements of §733-13 *Select Granular Subgrade* with the following material and gradation adjustment:

The material shall have no particles greater than 6 in. in maximum dimension. The material shall have a gradation in accordance with TABLE 733-16A Gradation of Winter Earthwork Material. RAP shall not be used. The gradation is evaluated at the project level.

**6. Winter Earthwork Material for Select Structure Fill.** The material requirements contained in §733-16 B.4. *Winter Earthwork Material for Select Granular Fill* shall apply.

**7. Winter Earthwork Material for GRES Slope Backfill.** The material requirements contained in §733-16 B.5. *Winter Earthwork Material for Select Granular Subgrade* shall apply.

### C. CHARACTERISTICS.

1. No frozen material is to be incorporated into or be allowed to remain in any of the work.
2. Material of silt, clay, or high moisture content will not be permitted under any circumstances.

**BASIS OF APPROVAL.** Sources will be approved in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

A preceding source evaluation will be valid for the time identified in the manual. For sources without a current evaluation, samples shall be obtained under the direction of the Departmental Geotechnical Engineer and will be tested and evaluated by the Geotechnical Engineering Bureau.

**BASIS OF ACCEPTANCE.** Approved winter earthwork material from approved sources for the substitution of embankment in place, select borrow, select fill, select granular fill, select granular subgrade, select structural fill, or GRES slope backfill will be accepted upon successful completion of the gradation tests and Quality Assurance (QA) program indicating that the material conforms to the specification. If the QA program is not introduced, approved winter earthwork material will be accepted upon successful completion of the gradation tests.

### 733-17 – SURFACE SETTLEMENT GAUGE

**SCOPE.** This specification covers the material requirements and methods of installation of the embankment



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construction control device surface settlement gauge generally used for monitoring embankment construction. The following materials are evaluated in this specification:

- 733.1701 – Surface Settlement Gauge (Pipe Gauge)
- 733.1702 – Surface Settlement Gauge (Manometer Gauge)

**MATERIAL REQUIREMENTS.** Provide material in conformance with the geotechnical control procedure “*Settlement Gauges and Settlement Rods*” including:

### A. PIPE GAUGE.

1. **Pipe.** Provide a minimum 2 ½ in. diameter metal pipe with steel flange meeting the requirements of §732-02 *Drive Pipe*. Provide a sufficient amount of pipe extensions to meet the rise requirements identified in the geotechnical control procedure “*Settlement Gauges and Settlement Rods*”.
2. **Base.** Provide either of the following:
  - a. **Steel.** Provide a minimum ¼ in. thick steel plate meeting the requirements of §715-01 *Structural Steel*.
  - b. **Wood.** Provide wood to the sizes shown in the geotechnical control procedure “*Settlement Gauges and Settlement Rods*” conforming to the requirements of §712-14 *Stress Graded Timber and Lumber*. Treat wood in accordance with §708-31 *Wood Preservative - Waterborne* and applied in conformance with American Wood Preservers Association (AWPA) Use Category Designation UC4B.

**B. MANOMETER GAUGE.** Provide materials specified for A. *Pipe Gauge* with the exception of the pipe extensions. To obtain readings from the buried device, provide the following connection:

1. **Interconnection.**
  - a. **Tubing.** Provide ½ in. O.D. polyethylene tubing indicated in the geotechnical control procedure “*Settlement Gauges and Settlement Rods*”.
  - b. **Sand.** Provide sand conforming to the requirement of §703-07 *Concrete Sand*.
  - c. **Fluid.** Provide a 50-50 mixture of ethylene glycol and water.
2. **Readout Box.** Provide wood to the sizes shown in the geotechnical control procedure “*Settlement Gauges and Settlement Rods*” conforming to the requirements of §712-14 *Stress Graded Timber and Lumber*. Treat wood in accordance with §708-31 *Wood Preservative - Waterborne* and applied in conformance with American Wood Preservers Association (AWPA) Use Category Designation UC4B.
3. **Base.** Provide wood to the sizes shown in the geotechnical control procedure “*Settlement Gauges and Settlement Rods*” conforming to the requirements of §712-14 *Stress Graded Timber and Lumber*. Treat wood in accordance with §708-31 *Wood Preservative - Waterborne* and applied in conformance with American Wood Preservers Association (AWPA) Use Category Designation UC4B.

**BASIS OF APPROVAL.** The material shall be approved on the basis of manufacturer’s certification that the material conforms to the specification.

**BASIS OF ACCEPTANCE.** Approved material will be accepted upon successful assemblage and installation in accordance with the geotechnical control procedure “*Settlement Gauges and Settlement Rods*”.

### 733-18 – SETTLEMENT ROD

**SCOPE.** This specification covers the material requirements and methods of installation of the embankment

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construction control device settlement rod generally used for monitoring embankment construction.

**MATERIAL REQUIREMENTS.** Provide material in conformance with the geotechnical control procedure “*Settlement Gauges and Settlement Rods*” including:

**A. ROD.** Provide a minimum ½ in. diameter steel rod meeting the requirements of §709-01 *Bar Reinforcement, Grade 60*.

**B. PIPE.** Provide a minimum 3 in. diameter metal pipe and cap meeting the requirements of §732-02 *Drive Pipe*.

**BASIS OF APPROVAL.** The material shall be approved on the basis of manufacturer’s certification that the material conforms to the specification.

**BASIS OF ACCEPTANCE.** Approved material will be accepted upon successful assemblage and installation in accordance with the geotechnical control procedure “*Settlement Gauges and Settlement Rods*”.

**733-19 – CORIAN® BACKFILL**

**SCOPE.** This specification covers the material requirements and methods of assessing Corian® backfill material generally used as fill material.

**SAMPLING.** Perform material tests and assurance methods pertaining to the Corian® backfill requirements in conformance with the procedures for stockpiled granular materials contained in the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**MATERIAL REQUIREMENTS.**

**A. STOCKPILE.** Stockpile Corian® backfill material in accordance with the procedures for stockpiled granular materials contained in the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**B. GRADATION.** Provide Corian® crushed to a maximum particle size of 2 in. The material shall be subject to visual inspection by the Regional Geotechnical Engineer.

**BASIS OF APPROVAL.** Corian® backfill will be approved in accordance with the procedures for stockpiled granular materials contained in the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

The material shall be subject to visual inspection by the Regional Geotechnical Engineer.

**BASIS OF ACCEPTANCE.** Approved Corian® backfill material will be accepted upon successful completion of the Quality Assurance (QA) program indicating that the material conforms to the specification. If the QA program is not introduced, Corian® backfill material will be accepted upon the basis of the stockpile approval.

**733-20 – UNDERDRAIN FILTER MATERIAL**

**SCOPE.** This specification covers the material requirements and methods of testing underdrain filter material generally used in drainage systems. The following underdrain filter types are evaluated in this specification:

733.2001 – Underdrain Filter, Type 1

733.2002 – Underdrain Filter, Type 2

Underdrain filter types are based on the gradation of the material as outlined in Table 733-20A *Underdrain*

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*Filter Material Gradation.*

**SAMPLING.** Perform material tests and assurance methods pertaining to underdrain filter material requirements in conformance with the procedures contained in the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**MATERIAL REQUIREMENTS.**

**A. STOCKPILE.** Stockpile underdrain filter material in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*” except as noted herein.

**B. GRADATION.** Provide material consisting of crushed stone, sand, gravel, or screened gravel having a gradation in accordance with TABLE 733-20A *Underdrain Filter Material Gradation*.

TABLE 733-20A UNDERDRAIN FILTER MATERIAL GRADATION		
Sieve Size Designation	Percentage Passing by Weight	
	Type 1	Type 2
1 in.	100	-
½ in.	30-100	100
¼ in.	0-30	20-100
No. 10	0-10	0-15
No. 20	0-5	0-5

**C. DURABILITY.** Provide material meeting the soundness requirements of §703-02 *Coarse Aggregates* or §703-10 *Lightweight Aggregates*. When electing to use material from sources not approved under §703-02 or §703-10, provide material having a Magnesium Sulfate Soundness loss less than 20%.

**BASIS OF APPROVAL.** Stockpiles of underdrain filter material will be approved in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**BASIS OF ACCEPTANCE.** Underdrain filter material from approved stockpiles will be accepted upon successful completion of the Quality Assurance (QA) program indicating that the material conforms to the specification. If the QA program is not introduced, underdrain filter material will be accepted upon the basis of the stockpile approval.

**733-21 – STONE FILLING**

**SCOPE.** This specification covers the material requirements and methods of testing stone filling generally used in stream bank channel protection. The following stone filling types are evaluated in this specification:

- 733.2101 – Stone Filling, Fine
- 733.2102 – Stone Filling, Light
- 733.2103 – Stone Filling, Medium
- 733.2104 – Stone Filling, Heavy

Stone filling types are based on the gradation of the material as outlined in Table 733-21A *Stone Filling Gradation* and Table 733-21B *Stone Filling Approximate Shape*.

**SAMPLING.** Perform material tests and assurance methods pertaining to stone filling requirements in conformance with the procedures contained in the geotechnical control procedure “*Procedure for the Control of Stone Filling and Rip-Rap Items*”.

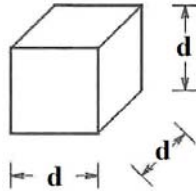
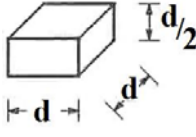
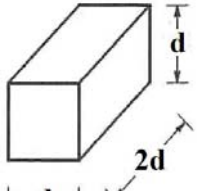

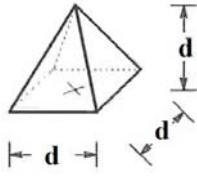
**MATERIAL REQUIREMENTS.**

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**A. STOCKPILE.** Stockpile stone filling in accordance with the geotechnical control procedure “*Procedure for the Control of Stone Filling and Rip-Rap Items*” except as noted herein.

**B. GRADATION.** Provide material having a gradation in accordance with TABLE 733-21A *Stone Filling Gradation* and Table 733-21B *Stone Filling Approximate Shape*.

<b>TABLE 733-21A STONE FILLING GRADATION</b>			
<b>Stone Filling Item</b>	<b>See Notes</b>	<b>Stone Size</b>	<b>Percent of Total by Weight</b>
Fine	2, 3, 4	Smaller than 8 in.	90-100
		Larger than 3 in.	50-100
		Smaller than No. 10 sieve	0-10
Light	2, 3, 4	Lighter than 100 lbs.	90-100
		Larger than 6 in.	50-100
		Smaller than ½ in.	0-10
Medium	2, 4	Heavier than 100 lbs.	50-100
		Smaller than 4 in.	0-10
Heavy	2, 4, 5	Heavier than 600 lbs.	50-100
		Smaller than 6 in.	0-10

<b>TABLE 733-21B STONE FILLING APPROXIMATE SHAPE</b>					
<b>Specified Weights and Sizes</b>				 sphere	
600 lbs.	d=18 in.	d=23 in.	d=15 in.	d=23 in.	d=27 in.
300 lbs.	d=15 in.	d=18 in.	d=12 in.	d=18 in.	d=21 in.
150 lbs.	d=12 in.	d=15 in.	d=9 in.	d=15 in.	d=17 in.
100 lbs.	d=10 in.	d=13 in.	d=8 in.	d=13 in.	d=15 in.
d = 8 in.	50 lbs.	25 lbs.	100 lbs.	25 lbs.	16 lbs.
d = 6 in.	20 lbs.	10 lbs.	40 lbs.	10 lbs.	7 lbs.

**Notes:**

1. Stone sizes, other than weights, refer to the average of the maximum and minimum dimensions of a stone particle as estimated by the Engineer.
2. Materials shall contain less than 20% of stones with a ratio of maximum to minimum dimension greater than three.
3. Air-cooled blast furnace slag, cobbles or gravel having at least one fractured face per particle are acceptable substitutes for stone under these items, provided that the soundness and gradation requirements are met.
4. Materials shall contain a sufficient amount of stones smaller than the average stone size to fill in the spaces between the larger stones.
5. Heavier gradings of this item may be required on some projects, in which case the requirements will be stated in the contract documents.

**C. DURABILITY.** The soundness of all material used for stone filling shall be approved on the basis of a geologic evaluation in accordance with the geotechnical control procedure “*Procedure for the Control of Stone Filling and Rip-Rap Items*”.

Where the State elects to conduct soundness tests, stone filling shall have a Magnesium Sulfate Soundness

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loss less than 10%, by weight, after 10 cycles.

**BASIS OF APPROVAL.** Stockpiles of stone filling will be approved in accordance with the geotechnical control procedure “*Procedure for the Control of Stone Filling and Rip-Rap Items*”.

**BASIS OF ACCEPTANCE.** Stone filling from approved stockpiles will be accepted upon successful completion of the Quality Assurance (QA) program indicating that the material conforms to the specification. If the QA program is not introduced, stone filling will be accepted upon the basis of the stockpile approval.

**733-22 – RIP-RAP**

**SCOPE.** This specification covers the material requirements and methods of testing rip-rap generally used in stream bank channel protection. The following rip-rap types are evaluated in this specification:

- 733.2201 – Dry Rip-Rap
- 733.2202 – Grouted Rip-Rap

**SAMPLING.** Perform material tests and assurance methods pertaining to rip-rap requirements in conformance with the procedures contained in the geotechnical control procedure “*Procedure for the Control of Stone Filling and Rip-Rap Items*”.

**MATERIAL REQUIREMENTS.**

**A. STOCKPILE.** Stockpile rip-rap in accordance with the geotechnical control procedure “*Procedure for the Control of Stone Filling and Rip-Rap Items*” except as noted herein.

**B. GRADATION.** Provide material consisting of stones shaped as nearly as practicable in the form of right rectangular prisms having a gradation in accordance with TABLE 733-22A *Rip-Rap Gradation*. One dimension of each of the stones furnished shall be at least equal to the thickness of the rip-rap shown in the contract documents.

<b>TABLE 733-22A RIP-RAP GRADATION</b>	
<b>Stone Weight</b>	<b>Gradation Spread</b>
Heavier than 300 lbs.	50-100 percent of total by weight
100 lbs. ≤ γ ≤ 300 lbs.	Remainder of stones

**C. DURABILITY.** The soundness of all material used for rip-rap shall be approved on the basis of a geologic evaluation in accordance with the geotechnical control procedure “*Procedure for the Control of Stone Filling and Rip-Rap Items*”.

Where the State elects to conduct soundness tests, rip-rap shall have a Magnesium Sulfate Soundness loss less than 10%, by weight, after 10 cycles.

**D. GROUT.** Provide grout manufacture materials conforming to Table 733-22B *Grouted Rip-Rap Grout Requirements*:

<b>TABLE 733-22B GROUDED RIP-RAP GROUT REQUIREMENTS</b>		
<b>Material</b>	<b>Subsection</b>	<b>Grout Mix</b>
Portland Cement Type 2	§701-01	1 part
Concrete Sand	§703-07	3 parts

**BASIS OF APPROVAL.** Stockpiles of rip-rap will be approved in accordance with the geotechnical control procedure “*Procedure for the Control of Stone Filling and Rip-Rap Items*”.

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The material shall be subject to visual inspection by the Regional Geotechnical Engineer.

**BASIS OF ACCEPTANCE.** Rip-rap from approved stockpiles will be accepted upon successful completion of the Quality Assurance (QA) program indicating that the material conforms to the specification. If the QA program is not introduced, rip-rap will be accepted upon the basis of the stockpile approval

### 733-23 – BEDDING MATERIAL

**SCOPE.** This specification covers the material requirements and methods of testing bedding material generally used as a foundation material prior to placing stone filling or rip-rap.

**SAMPLING.** Perform material tests and assurance methods pertaining to bedding material requirements in conformance with the procedures contained in the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

#### MATERIAL REQUIREMENTS.

**A. STOCKPILE.** Stockpile bedding material in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*” except as noted herein.

**B. GRADATION.** Provide material consisting of crushed stone, crushed air-cooled blast furnace slag, or gravel, free of soft, non-durable particles, organic material, and thin or elongated particles having a gradation in accordance with TABLE 733-23A *Bedding Material Gradation*.

<b>TABLE 733-23A BEDDING MATERIAL GRADATION</b>	
<b>Sieve Size Designation</b>	<b>Percentage Passing by Weight</b>
4 in.	100
1 in.	15-60
¼ in.	0-25
No. 40	0-10

**BASIS OF APPROVAL.** Stockpiles of bedding material will be approved in accordance with the geotechnical control procedure “*Procedure for the Control and Quality Assurance of Granular Materials*”.

**BASIS OF ACCEPTANCE.** Bedding material from approved stockpiles will be accepted upon successful completion of the Quality Assurance (QA) program indicating that the material conforms to the specification. If the QA program is not introduced, bedding material will be accepted upon the basis of the stockpile approval.

### SECTION 734 (VACANT)

<b>SPECIAL NOTES</b>
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Location Maps

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Landscape Development Notes

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R.O.W.

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Thruway

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Canal

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Funding

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Specialty Items

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Other Special Notes

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Other Project Special Notes

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*NOTE: This form was developed for repetitive use throughout all contract proposals and may identify items not applicable to this specific project.*

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**SPECIAL NOTE**  
**JOB ORDER CONTRACT (JOC)**

**CONTRACT OVERVIEW.****Description**

A Job Order Contract is a non-specified quantity, non-specified location contract pursuant to which the Contractor will perform a series of individual work tasks, referred to as Job Orders, at different locations throughout the project limits. The Department has published a Construction Task Catalog containing a series of work items with preset unit prices. The Contractor will bid two Adjustment Factors to be applied to the unit prices to determine payment(s). The first Adjustment Factor is for performing work during Normal Working Hours and a second Adjustment Factor is for performing work during Other Than Normal Working Hours. The price of an individual Job Order will be determined by multiplying the preset unit price(s) by the appropriate quantity(ies) and then by the appropriate Adjustment Factor(s).

As individual work tasks are identified, the scope of work will be explained to the Contractor at a Joint Scope Meeting. The Department will provide the Contractor with a draft Detailed Scope of Work which the Contractor shall review. Once the Detailed Scope of Work is agreed upon, the Department will issue a Request for Job Order Proposal. The Contractor will then develop a Job Order Price Proposal. The Department will review the Job Order Price Proposal, and if appropriate, will issue a Job Order. The resulting price will be a lump sum, fixed price for the completion of the Detailed Scope of Work. At any given time, the Contractor may be developing and/or performing more than one Job Order.

**Contract Term**

The base term of the Contract is one year. The base term will begin on the day the contract is awarded by the New York State Office of the State Comptroller (NYS OSC). The base term will end one year (365 days) from the date the contract is awarded, and the Contract Completion Date indicated on Page 1 of the Proposal will be adjusted to coincide with this date. For State funded contracts, there are 3 one year bilateral (mutually agreed upon) option periods. For Federally-aided contracts, there is 1 one year bilateral (mutually agreed upon) option period. Both the Department and the Contractor must mutually agree to extend the contract for an option period. An additional term cannot be entered into until the current term has exhausted its complete one year (365 day) lifespan. If contract funds are depleted before the end of the existing contract term, no additional work can be performed or paid for during that term. The contract funds may be replenished for the next contract term, assuming there is a mutual agreement between the Department and the contractor to extend the contract. The next (new) contract term shall not begin until one year (365 days) after the current term began. The work intended to be paid for with the replenished funds cannot begin until the new contract term begins. The Department and the contractor must mutually agree in writing no later than 90 days prior to the current completion date of their agreement to extend or terminate the contract.

**Contract Values**

The Minimum Contract Value is \$50,000. The Contractor is guaranteed to receive Job Orders totaling at least \$50,000 during the base contract period. The Minimum Contract Value only applies to the base contract period.

The Initial Contract Value will be the Total Sum as it appears on the Bid Form. The Contractor is not guaranteed to receive this volume of work.

For State funded contracts, the contract value may be increased by mutual agreement via order-on-contract by a maximum of the Initial Contract Value for a maximum of 3 times. The total potential contract value will therefore be 4 times the Initial Contract Value.

For Federally-aided contracts, the contract value may be increased by mutual agreement via order-on-contract by a maximum of the Initial Contract Value a maximum of 1 time. The total potential contract value will therefore be 2 times the Initial Contract Value.



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**SPECIAL NOTE**  
**JOB ORDER CONTRACT (JOC)**

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The State has no obligation to issue Job Orders in excess of the Minimum Contract Value. Although the Contractor shall not rely upon it, the Initial Maximum Contract Value is intended to be a reasonable estimate of the volume of work that the Contractor might receive during each contract period.

No contract replenishment will be approved until the current contract term has exhausted its complete one year (365 day) lifespan. If funds are exhausted prior to the end of the current term, additional funds will not be approved until the current term expires.

**AGENCY CONTACT**

Any questions or correspondence relating to this bid solicitation shall be addressed to the following Agency Contact Person(s)

NYSDOT Operations Division, Department of Transportation Maintenance  
(518) 457-6435

**DEFINITIONS**

**Detailed Scope of Work.** A written document that sets forth the work the Contractor is obligated to perform in connection with a particular Job Order.

**Request for Job Order Proposal.** A written request by the Department for the Contractor to prepare a Job Order Proposal for a particular Detailed Scope of Work which will be referenced therein.

**Job Order Proposal.** A set of documents including at least: (1) a Job Order Price Proposal; (2) a proposed project schedule; (3) a list of proposed subcontractors indicating D/M/WBE status; and any or all of the following documents which may be required for a particular project: (4) sketches, drawings, or layouts; (5) amendments to the safety plan and an erosion and sedimentation control plan; and (6) technical data or information on proposed materials or equipment.

**Job Order Price Proposal.** A written price proposal prepared by the Contractor that sets forth the construction tasks and quantities required to complete the Detailed Scope of Work and the appropriate Adjustment Factors.

**Job Order.** A written order that requires the Contractor to perform the referenced Detailed Scope of Work within the Job Order Completion Time for the Job Order Price.

**Job Order Price.** The lump sum price the Contractor will be paid for completing the Detailed Scope of Work within the Job Order Completion Time.

**Job Order Completion Time.** The time within which the Contractor must complete the Detailed Scope of Work for a particular Job Order.

**CONSTRUCTION TASK CATALOG**

A CD of a Construction Task Catalog for this Job Order Contract is enclosed. A copy of the Construction Task Catalog will be provided to the successful bidder upon award of the contract.

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SPECIAL NOTE  
JOB ORDER CONTRACT (JOC)**

Unit prices have been established for this contract, for the tasks contained in the Construction Task Catalog. The descriptions contained in the Construction Task Catalog govern. A contract pay item described in the Standard Specifications may cover more than one task in the Construction Task Catalog, or a task in the Construction Task Catalog may cover more than one contract pay item. Therefore, the work included in a task will be first determined by reference to the Construction Task Catalog, and second by reference to the Standard Specifications. Payment Limits and Payment Lines are applicable and will be used to determine the quantities for which the Contractor will be paid.

**ADJUSTMENT FACTORS**

In the Construction Task Catalog, under "Using the Construction Task Catalog" are notes that detail what costs are included in unit prices, and what costs must be included in the Adjustment Factors. The Adjustment Factor for Normal Working Hours includes work conducted from 7:00am to 5:00pm Monday through Friday. The Adjustment Factor for Other Than Normal Work Hours includes work conducted from 5:00pm to 7:00am Monday through Friday, any time Saturday, Sunday, or a Holiday, or when the Department can only provide site access for a work day of less than 7 hours.

The bidder shall complete the bid form by writing in two Adjustment Factors, one for *Normal Working Hours* and one for *Other Than Normal Working Hours*. Each Adjustment Factor shall be specified to three decimal places. Note that these are contract pay items for Contractor payment, not work items.

EXAMPLE: the Adjustment Factor shall be entered as the following example illustrates.

<b>1</b>	.	<b>1</b>	<b>9</b>	<b>8</b>
OR				
<b>0</b>	.	<b>9</b>	<b>8</b>	<b>7</b>

**CONTRACT AWARD.**

The lowest bid will be determined by multiplying the dollars-cents quantity for each item by the Adjustment Factor. The extended amount for each item will then be totaled, and the Total Sum will be used for bid comparison purposes. The Initial Contract Value will be equal to the Total Sum. The Dollar Quantities provided in the bid form are not intended to represent the value of work that will be assigned during certain days of the week or during certain hours.

**FAITHFUL PERFORMANCE BOND.**

The amount of the Faithful Performance Bond shall be 100% of the Initial Contract Value.

**LABOR AND MATERIAL BOND.**

The amount of the Labor and Material Bond shall be 100% of the Initial Contract Value.

**MODIFICATION OF THE ADJUSTMENT FACTORS**

Allowable adjustments made to the Contractor's bid adjustment factors will be made through an Order on Contract (OOC). These adjustments will be made at the written request of the Contractor, not more frequently than annually, on the contracts anniversary date.

The originally bid Adjustment Factors are valid for one year. The Adjustment Factors will be modified only at the written request of the contractor. The contractor must make this written request for each year the contract is extended. If requested in writing by the contractor, the Adjustment Factors will be adjusted on the first anniversary of the Contract, and each 12 months thereafter, in accordance with the 20 City Average Cost Construction Index as published in Engineering News Record (ENR), except for Region 11 which will use the New York City Index. This provision provides a means to adjust the base year Adjustment Factors to the subsequent year Adjustment Factors.

The "base year" for the purposes of this clause is the last 12 month period just prior to the month in which the Contract is awarded. The "base year index" is determined by summing the monthly CCI indices for each of the 12 months of the "base year" and dividing by 12.

The "first year period" for the purposes of the clause is the 12 month period following the award of the Contract. The "first year index" is determined by summing the monthly CCI indices for the first year period and dividing by 12.

The Price Adjustment for the 12 months following the first anniversary of the Contract is determined by dividing the "first year index" by the "base year index." The new adjustment factor is determined by multiplying the Price Adjustment by the original Adjustment Factor.

The Price Adjustment for subsequent periods is determined by the same procedure as described above. All the above computations shall be carried to five (5) decimal places and then rounded to four (4) decimal places by increasing the fourth decimal place if the fifth decimal is equal to five or greater.

**INSURANCE.**

The location of the work is not known at this time. When the location is identified, the Contractor shall insure all Municipalities and Utilities listed as Additional Insured Parties in the Request for Job Order Proposal.

**PROCEDURES FOR DEVELOPING A JOB ORDER**

**Initiation of a Job Order.**

All Job Orders are to be consistent with the scope of work listed in the contract proposal.

Individual Job Orders are capped at \$500,000. Prior approval to exceed this threshold must be obtained from the New York State Office of the State Comptroller (OSC).

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**SPECIAL NOTE**  
**JOB ORDER CONTRACT (JOC)**

Job Orders should not be issued if the Contractor cannot complete the work, including allowances for weather delays, by the contract completion date.

As the need exists for performance by the Contractor under the terms of this Contract, the State will notify the Contractor of a Project by issuing a Notice of Joint Scope Meeting.

The Contractor shall attend the Joint Scope Meeting and discuss, at a minimum:

- a. the general scope of the work;
- b. existing conditions, presence of waterways, wetlands, or other natural resources,
- c. presence of hazardous materials
- d. methods and alternatives for accomplishing the work;
- e. access to the site and protocol for admission;
- f. staging area availability/location;
- g. requirements for catalog cuts, technical data, samples and shop drawings;
- h. requirements for professional services, including sketches, drawings, and specifications;
- i. hours of operation;
- j. construction duration;
- k. liquidated damages;
- l. specific quality requirements for equipment and material;
- m. date on which Job Order Proposal is due.

Upon completion of the joint scoping process, the State will prepare a draft Detailed Scope of Work referencing any sketches, drawings, photographs, and specifications required to document accurately the work to be accomplished. The Contractor shall review the Detailed Scope of Work and request any desired changes or modifications thereto. When an acceptable Detailed Scope of Work has been completed, the State will issue a Request for Job Order Proposal which will require the Contractor to prepare a Job Order Proposal. The Detailed Scope of Work, unless modified by both the Contractor and the State, will be the basis on which the Contractor will develop its Job Order Proposal package and the Department will evaluate the same. The Contractor does not have the right to refuse to perform any task item or any work in connection with a particular project.

**Preparation Of The Job Order Proposal.**

The Contractor will prepare Job Order Proposals in accordance with the following: The State's determination as to whether an item is a Pre-priced Task or a Non Pre-priced Task shall be final, binding and conclusive.

**1. Pre-priced Tasks:**

A Pre-priced Task is a task described and for which a unit price is set forth in the Construction Task Catalog. For Pre-priced Tasks the Contractor shall identify the task and quantities required from the Construction Task Catalog.

**2. Non-Pre-priced Tasks:**

Non-Pre-priced Tasks shall be separately identified and submitted in the Job Order Price Proposal. When developing Non Pre-priced Tasks, reference shall be made to the statewide or regional weighted average bid price for a minimum of 3 contracts for similar type, quantity, and/or location of work from the Weighted Average Item Price Report or other recent contracts, adjusted for documented increase or decrease in labor, materials, equipment, mobilization, and/or site conditions.

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**SPECIAL NOTE**  
**JOB ORDER CONTRACT (JOC)**

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Information submitted in support of Non Pre-priced Tasks is required, and may include, but is not limited to: Catalog cuts, specifications, technical data, drawings, or other information as required to evaluate the proposed item.

If the Contractor will perform the work with its own forces, it shall submit three independent quotes for all material to be installed. If the work is to be subcontracted, the Contractor must submit three independent bids from subcontractors, including costs for labor, material and equipment. The Contractor shall not submit a quote or bid from any supplier or subcontractor that the Contractor is not prepared to use. The State may require additional quotes and bids if the suppliers or subcontractors are not acceptable or if the prices are not reasonable.

For Non Pre-priced Tasks that cannot be referenced weighted average bid prices, the final price submitted for shall be according to the following force account estimate formula:

A = Direct Labor Cost - Wages and Fringe Benefits per the Prevailing Wage Rate Schedule

B = Direct Material Costs (supported by three quotes)

C = Direct Equipment Costs (in accordance with §109-05)

D = Subcontractor Costs (supported by three quotes)

E = Allowable Commercial General Liability and

F = Allowable Over Head Costs = (in accordance with §109-05)

G = Allowable Profit = (in accordance with §109-05)

H = Subcontractor Allowance = (in accordance with §109-05)

Total Cost of Non Pre-Priced Task = A + B + C + D + E + F + G

The Contractor shall procure all permits and licenses necessitated by the Contractor's operations. If the Contractor is required to pay an application fee to obtain a permit or license, then the amount of any receipted fee paid by the Contractor will be treated as a Non Pre priced Task to be paid without mark-up. The cost of expediting services fees are not reimbursable.

The Contractor shall provide incidental engineering and architectural services required in connection with a particular Job Order including drawings and information required for filing.

Non Pre-priced Tasks will be paid on a lump sum basis using an Adjustment Factor of 1.000.

On individual job orders in excess of \$150,000 where the aggregate non pre-priced task value is in excess of 10% of the Job Order value, the non-priced task will require the prior approval of the Office of the State Comptroller.

**Job Order Proposal Submittal.**

The Contractor's Job Order Proposal shall include, at a minimum:

- a. Job Order Price Proposal;
- b. Required architectural or engineering drawings or sketches;
- c. Catalog cuts, technical data or samples;
- d. List of anticipated Subcontractors and Material Suppliers indicating D/M/WBE status and anticipated price;
- e. Construction schedule;
- f. Sample warranties or guarantees for materials, equipment or systems proposed;

**D261746**  
**SPECIAL NOTE**  
**JOB ORDER CONTRACT (JOC)**

The Contractor's Job Order Proposal shall be submitted by the date indicated on the Request for Job Order Proposal. All incomplete Job Order Proposal packages will be rejected. The time allowed for preparation of the Contractor's Job Order Proposal will depend on the complexity and urgency of the Job Order but should average between 7 and 14 days. On complex Job Orders, such as Job Orders requiring engineering/ architectural drawings and approvals and permits, allowance will be made to provide adequate time for preparation and submittal of the necessary documents and the Job Order Proposal and so reflected in the Proposal due date. The contractor may be charged \$100.00 for each day after the proposal due date that the Job Order Proposal is not submitted.

By submitting a signed Job Order Price Proposal to the State, the Contractor agrees to accomplish the Detailed Scope of Work in accordance with the Request for Proposal at the price submitted. The Contractor shall include the necessary tasks and quantities in the Job Order Price Proposal prior to submitting it to the State.

**Review Of The Proposal.**

The State will evaluate the entire Job Order Proposal and compare these with the State's cost estimate of the Detailed Scope of Work to determine the reasonableness of approach, including the nature and quantity of tasks proposed.

The State reserves the right to reject a Job Order Proposal or cancel a proposed work task for any reason. The State also reserves the right not to issue a Job Order if that is determined to be in the best interests of the State. The Contractor shall not recover costs arising out of or related to the development of the Job Order including but not limited to the costs to attend the Joint Scope Meeting, review the Detailed Scope of Work, prepare a Proposal, subcontractor costs, and the costs to review the Job Order Proposal with the State. The Contractor may recover costs arising out of or related to the development of the Job Order for architectural and engineering services.

**Job Order Price Proposals In Excess Of \$150,000**

On individual job orders in excess of \$150,000 where the aggregate non-pre-priced task value is in excess of 10% of the Job Order value, the non-priced task will require the prior approval of the Office of the State Comptroller.

**Job Order Issuance**

Each Job Order provided to the Contractor shall reference the Detailed Scope of Work and set forth the price to be paid and the time to complete the work. The Job Order, signed by the State and delivered to the Contractor constitutes the State's acceptance of the Contractor's Job Order Proposal. A signed copy of the Job Order will be provided to the Contractor.

**COMPLETING THE WORK**

The Contractor shall perform any task in the Construction Task Catalog for the pre-set unit price multiplied by the quantity, multiplied by the appropriate Adjustment Factor for tasks performed during Normal Working Hours or for tasks performed during Other Than Normal Work Hours. The Contractor shall perform the Detailed Scope of Work for the Job Order Price as calculated in accordance with the procedure for developing Job Orders set forth herein.

When installed quantities differ from those in the Job Order, a Supplemental Job Order will be developed to address the quantity variation(s). When quantities are not specified in the Detailed Scope of Work, the Job Order Price will be deemed to be lump sum for such work.

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**SPECIAL NOTE**  
**JOB ORDER CONTRACT (JOC)**

The Contractor shall employ and supply a sufficient force of workers, materials and equipment and shall progress the work with such diligence so as to ensure completion of the Detailed Scope of Work within the Job Order Completion Time or within such extended time for completion as may be granted by the Engineer.

In order to assist in reviewing the Job Order Price Proposal, the Contractor shall as part of the Job Order Proposal prepare and submit to the Engineer for approval, a progress schedule showing the order in which the Contractor proposes to carry on the work, the date on which it will start the major items of work (including but not limited to excavation, drainage, paving, structures, mobilization, soil erosion and sediment control, etc.) and the critical features (including procurement of materials, plant and equipment) and the contemplated dates for completing the same.

**FAILURE TO COMPLETE WORK ON TIME**

When specified in the Job Order, Liquidated Damages may be assessed for each calendar day, or any portion thereof, for failure to complete certain portions of work or for failure to comply with requirements shown in the Job Order.

<b>SCHEDULE OF LIQUIDATED DAMAGES</b>		
<b>Initial Contract Value</b>		<b>Liquidated Damages per Calendar Day</b>
<b>From More Than</b>	<b>To and Including</b>	
\$0	\$ 500,000	\$ 500
\$500,000	\$2,000,000	\$1,000

**CONTRACT PAYMENTS.**

For all Job Orders less than \$25,000 or with a Job Order Completion Time of 30 days or less, one payment will be made when the Detailed Scope of Work is completed and accepted. For all other Job Orders, semi-monthly or monthly payments will be made to the Contractor in accordance with the provisions of Section 109-06 of the NYSDOT Standard Specifications. .

**SOURCES OF SUPPLY**

Before a Job Order involving the following work is issued, the Contractor shall notify the Deputy Chief Engineer (Structures) of the name and address of the fabricator of all Prestressed Concrete Units (Structural), Structural Steel, Bridge Bearings, Armored Bridge Joint Systems, Bridge and Culvert Railings and Overhead Sign Structures. This notification shall list the actual shop or shops in which the materials will be manufactured and/or fabricated. It shall be the responsibility of the Contractor to notify the Engineer of the proposed sources of materials sufficiently in advance of their use so that proper tests may be made.

**PROJECT SAFETY AND HEALTH PLAN.**

Before the work begins on any Job Order and periodically throughout the contract duration, the Contractor's supervisory staff shall meet with the Engineer to review and discuss the status of safety issues. The Contractor may be required to submit an amendment to the overall plan for any particular Job Order that contains work that presents hazards not adequately addressed by the Contractor's Project Safety and Health Plan.

**D261746**  
**SPECIAL NOTE**  
**JOB ORDER CONTRACT (JOC)**

**LIFT PLAN.**

A Lift Plan is necessary only when required by the Detailed Scope of Work, the Steel Construction Manual, or Prestressed Concrete Construction Manual. The Contractor shall submit erection drawings, demolition plans or other information as required, which detail the lifting procedure or lift plan. This information shall be submitted to the Engineer 30 days prior to the commencement of erection or demolition work, for review and approval by the Department and, when applicable, any railroad affected by the proposed procedure.

**DELAY PROVISIONS.**

If the Contractor is delayed in the commencement, prosecution or completion of the work by any act of the Department or anyone employed by the Department, or by any cause beyond the Contractor's control, then the Contractor will be entitled to an extension of time only. If the Contractor is prevented from working on a particular date as a result of an error or omission of the Department, and the Contractor incurs unavoidable labor costs as a direct result thereof because the Contractor did not have enough time to cancel or divert its labor force, then the Contractor will be reimbursed for such costs. For each worker so paid, the Contractor will be reimbursed the amount paid the worker. Also, the Contractor will be reimbursed for construction tasks required as a direct result of such error or omission, such as closing off areas of work. No other costs shall be paid as a result of a late cancellation.

**SUBLETTING OR ASSIGNING THE CONTRACT**

The Contractor shall perform with its own organization contract work amounting to not less than 30 percent of the original total contract bid price. The supervision of subcontractors or the purchase of materials not installed with the Contractor's own organization shall not count towards meeting the 30% requirement.

A Subcontractor shall provide certified payrolls and all civil rights reporting data.

Subcontractor Approval is required for any firm that performs the on-site completion of construction tasks in excess of \$10,000 as defined in the Construction Task Catalog, including the Contractor's Adjustment Factor.

**ELIMINATED MATERIALS.**

Materials required by the Detailed Scope of Work and not incorporated into the work due to changes caused by field conditions or revisions to the design by the State after the material was ordered or purchased will be reimbursed at the material portion of the Pre-priced Task, or if there is no Pre-priced Task, then its material cost minus salvage value, or the material cost plus delivery costs.



**SPECIAL NOTE  
MODIFICATION TO INSURANCE REQUIREMENTS**

The Contractor will not be required to provide Builder's Risk insurance coverage as required by the revised §107-06 *Insurance* inserted in the contract proposal.

Where required for professional services requiring the signature, stamp or certification of a licensed professional, the Contractor shall provide insurance coverage for Professional Liability/Errors and Omissions in accordance with §107-06B.8. *Professional Liability/Errors and Omissions*. The insurance coverage for this contract shall be not less than \$1,000,000 per claim and \$1,000,000 in the aggregate.

**SPECIAL NOTE - Special Specification Pay Item Numbers**

The contractor's attention is directed to the special specification pay item formats used in this contract. Special specification pay items may be presented in three different formats:

- Format 1. Pay items for a special specification will have five digits to the left of the decimal point and up to six digits to the right of the decimal point. The two left-most digits represent the origin of the specification. Reference Standard Specification §101-02 Specifications.
- Format 2. Pay items for a special specification will have three digits to the left of the decimal point and up to eight digits to the right of the decimal. Spaces may appear in the third to sixth places after the decimal. The 7th and 8th digits to the right of the decimal will represent the origin of the specification.
- Format 3. Pay items for a special specification will have three digits to the left of the decimal point and up to eight digits to the right of the decimal. Dashes may appear in the third to sixth places after the decimal. The 7th and 8th digits to the right of the decimal will represent the origin of the specification.

Where items in this contract appear in multiple formats, the formats shall be equated to each other as illustrated below:

Format 1

xxxxx.xx  
 xxxxx.xxxx  
 xxxxx.xxxxxx

Format 2

xxx.xx xx  
 xxx.xxxx xx  
 xxx.xxxxxxxxx

Format 3

xxx.xx---xx  
 xxx.xxxx--xx  
 xxx.xxxxxxxxx

**SPECIAL NOTES****GREEN CONSTRUCTION REQUIREMENTS****ULTRA LOW SULFUR DIESEL FUEL**

In order to reduce diesel emissions, the Contractor shall use Ultra Low Sulfur Diesel (ULSD) fuel to operate all diesel engines used to complete the work that will operate for 10 hours or more on the contract site. ULSD fuel requirements shall apply to:

- All diesel engines/equipment.
- Stationary and mobile equipment.
- Owned, leased and rented equipment.

The hours the piece of equipment is used to complete the work is defined as the actual time the engine is running. The time may be continuous or discontinuous and includes warm-up periods idling, in traffic periods, etc.

The term "Contractor" is intended to mean both Prime Contractors and Subcontractors. Materials delivery vehicles not owned by the Contractor/Subcontractor are exempt from this requirement, but should minimize idling time at construction sites when ever possible.

The Contractor will be notified when any diesel powered construction equipment is in non-compliance. Non-compliance shall be corrected within a 24-hour period.

**SPECIAL NOTES****GREEN CONSTRUCTION REQUIREMENTS****CONTROLLING EXPOSURE TO DIESEL EXHAUST**

The Contractor shall exercise measures to protect “Sensitive Receptors” from the impacts of diesel exhaust fumes. Sensitive Receptors include, but are not limited to: hospitals, schools, daycare facilities, building fresh air or ventilation intakes, elderly housing or convalescent facilities. The Contractor shall ensure that diesel powered engines are located away from building air conditioners and windows.

The goal is to minimize exposure of Sensitive Receptors in close proximity to diesel exhaust, in terms of both concentration and time. In general, close proximity is defined as within 15 meters of a Sensitive Receptor. Mitigation techniques include positioning stationary equipment exhausts greater than 15 meters from Sensitive Receptors, extension of equipment exhausts through the use of flexible tubing; protecting building air intakes; and the use of moving operations.

Idling time for diesel powered equipment shall be limited to three consecutive minutes for delivery and dump trucks and all other diesel powered equipment except as follows:

- When a “mobile source” (vehicle) is forced to remain motionless because of traffic conditions or mechanical difficulties over which the operator has no control.
- When it is necessary to operate a loading, unloading or processing device.
- When the outdoor temperature is less than - 3°C (27°F).
- When the “mobile source” is being repaired.

Arrow panels and portable variable message signs shall be solar powered wherever possible or practical.

Whenever possible and practicable, the Contractor shall establish staging areas for diesel powered vehicles waiting to load or unload materials at the work site. Such areas shall be located where diesel emissions have the least impact on Sensitive Receptors and the general public.

**SPECIAL NOTES****GREEN CONSTRUCTION REQUIREMENTS****DUST CONTROL**

The Contractor shall minimize dust from disturbed soil surfaces or other materials that can cause off-site damage, health hazards and traffic safety problems. Dusty conditions resulting from the Contractor's operations shall be corrected at no additional cost to the State. Buffer areas of vegetation should be left where practical. Water quality shall be considered when selecting materials for dust control. An approved dust palliative may be used in conformance with applicable conditions placed on its use. A list of acceptable dust palliatives is available at: [www.nysdot.gov/divisions/engineering/technical-services/geotechnical-engineering-bureau/dust-palliatives](http://www.nysdot.gov/divisions/engineering/technical-services/geotechnical-engineering-bureau/dust-palliatives) .

For areas not subject to traffic, products and materials may be applied or placed on soil surfaces to prevent airborne migration of soil particles, including:

- Vegetative Cover –provides the most practical method of dust control.
- Mulch (including rolled erosion control products) –provides a fast, effective method of dust control.
- Spray Adhesives –Generally composed of polymers in a liquid or solid form mixed with water to form an emulsion that is sprayed on the soil surface. The mixing ratios and application rates will be in accordance with the manufacturer's recommendations for the specific soils on the site. Adhesives shall not be applied to wet soils or if there is a probability of precipitation within 48 hours.

For areas subject to traffic (traveling public or construction traffic) products and materials may be applied or placed on soil surfaces to prevent airborne migration of soil particles, including:

- Water Sprinkling – The site may be sprayed with water until the surface is wet. This is especially effective on haul roads and access routes.
- Polymer Additives –Polymers shall be mixed with water and applied to the driving surface using mixing ratios and application rates in accordance with the manufacturer's recommendations. No application of the polymer will be made if there is a probability of precipitation within 48 hours of its proposed use. Any polymers must be used in accordance with the NYSDEC issued "Conditions for Use" and "Application Instructions." This information can be obtained from the NYSDEC website.
- Barriers – Woven geotextiles or stone can be placed on the driving surface to effectively reduce dust throw and particle migration on haul roads.
- Windbreak – A silt fence or similar barrier can control air currents at horizontal intervals equal to ten times the barrier height. Preserve existing vegetation that acts as a wind barrier as much as practical.
- Wheel Washing – Mechanical or manual wet-method cleaning of on-road construction vehicle tires prior to leaving site.

**SPECIAL NOTE****Diesel Emission Reduction Act (DERA) Regulatory Compliance**

All Department Contractors and Subcontractors are made aware that Environmental Conservation Law (ECL) 19-0323 and New York State Department of Environmental Conservation (NYSDEC) regulation 6 NYCRR Part 248 *Use of Ultra Low Sulfur Diesel (ULSD) Fuel and Best Available Retrofit Technology (BART) for Heavy Duty Vehicles* requires 100% compliance beginning in 2010 for regulated heavy duty diesel vehicles working on all State awarded contracts. DERA is a requirement of ECL, not a contractual requirement of NYSDOT. NYSDEC is responsible for regulatory enforcement. NYSDOT is responsible for annual Regulatory Entity reporting.

All Department Contractors and Subcontractors shall make determinations of regulatory applicability for vehicles in inventory used on active Department contracts beginning January 1<sup>st</sup> of every year. These determinations shall be based on the definition of Heavy Duty Vehicle (HDV) including on and off road diesel vehicles having gross vehicle weights in excess of 8,500 pounds, excluding vehicles that are exempt as defined in 6 NYCRR 248-1.1(b)(14). Contractors and Subcontractors shall also quantify ULSD fuel used by regulated vehicles beginning with active contract work January 1<sup>st</sup> of every year.

An electronic copy of 6NYCRR Part 248 can be accessed at [www.dec.ny.gov/regulations/56222.html](http://www.dec.ny.gov/regulations/56222.html). Electronic copies of the Regulated Entity Vehicle Inventory Form and the Regulated Entity and Contractors Annual Report Form can be accessed under Part 248 Use of Ultra Low Sulfur Diesel Fuel and Best Available Retrofit Technology for Heavy Duty Vehicles at the following link: [www.dec.ny.gov/chemical/4754.html](http://www.dec.ny.gov/chemical/4754.html).

DERA annual reporting by Department Contractors and Subcontractors shall be submitted to NYSDOT by April 1<sup>st</sup> of every year (all 2010 information to NYSDOT by April 1, 2011, all 2011 information to NYSDOT by April 1, 2012, etc.). Beginning in 2011 the following numbered 2010 information shall be submitted:

1. Contact information including firm name, contact person, phone number and e-mail
2. Annual total quantity of ULSD fuel used by covered vehicles on NYSDOT contracts
3. Annual fleet information for covered vehicles on NYSDOT contracts as provided in the following table:

-Number of on-road HDVs as defined in 248-1.1(b)(14) of 6NYCRR Part 248
-Number of off-road HDVs as defined in 248-1.1(b)(14) of 6NYCRR Part 248
-Number of bi-fuel HDVs as defined in 248-1.1(b)(3) of NYCRR Part 248
-Number of inventoried HDVs retired from your fleet prior to end of reporting year and not replaced
-Number of Alternative-fuel vehicles as defined in 248-1.1(b)(2) of NYCRR Part 248
-Number of HDVs that have been repowered/replaced with 2007 USEPA Diesel certified engines
-Number of HDVs that have been retrofitted with a USEPA or CARB approved device prior to 2/12/07
-Total number of regulated vehicles subject to BART requirements
-Total number of regulated vehicles with a BART device
-Number of NYSDEC approved waiver HDVs
-Total number of compliant vehicles
-Percentage of fleet meeting BART requirements as per 248-3.1(e) of 6NYCRR Part 248

Electronic mail submissions to [dera@dot.state.ny.us](mailto:dera@dot.state.ny.us).

**D261746**  
**SPECIAL NOTE**  
**ANCHORING MATERIALS - CHEMICAL CURING**

**175**

**SPECIAL NOTE**

Due to safety concerns, the use of §701-07 *Anchoring Materials – Chemical Curing*, will not be allowed in any overhead applications or where sustained tensile loads will exist. This requirement includes but is not limited to direct overhead installations such as utilities to undersides of bridge decks and overhead protective screening.

When such work is required, alternative anchoring methods or materials like mechanical anchors or cementitious grouting operations, must be used in these locations. Use of alternate materials or methods not previously approved shall require approval of the Deputy Chief Engineer Structures (DCES).

Further, use of §701-07 *Anchoring Materials – Chemical Curing* will not be allowed in any horizontal or vertical applications where failure would result in risk or injury to the public. Applications where only cementitious grouts shall be required include but are not limited to decorative railings, pedestrian fence, and screening. Bridge railing installations shall only use §701-05 *Concrete Grout Materials* as presently required by specifications. Substitution of §701-07 *Anchoring Materials – Chemical Curing* shall not be allowed for bridge railing installations.

Use of §701-07 *Anchoring Materials – Chemical Curing*, may be allowed for temporary applications, and when specified, shall be designed and stamped by a PE. Temporary items anchored using §701-07 *Anchoring Materials – Chemical Curing* shall be rendered inoperable upon completion of their use on a project.





**ITEM 636.01000021 – JOB ORDER CONTRACTING - NORMAL WORKING HOURS**  
**ITEM 636.02000021 – JOB ORDER CONTRACTING - OTHER THAN NORMAL WORKING HOURS**

**DESCRIPTION**

The work of this Job Order Contract shall consist of multiple individual job orders at different locations throughout the contract limits as defined on the title sheet. The work shall generally be repair and maintenance related, replacements in kind, and similar types of relatively straight forward projects and will be set forth in the Detailed Scopes of Work. The specifications will be used for work performed during: “Normal Working Hours” defined as 7:00 am to 5:00 pm Monday through Friday; or, “Other Than Normal Working Hours” defined as 5:00 pm to 7:00 am Monday through Friday and any time Saturday, Sunday, or a Holiday, or when the Department can only provide site access for a work day of less than 7 hours.

**MATERIALS**

The materials and methods used for the work shall meet the requirements of the Standard Specifications, as amended or supplemented by Special Notes and/or Standard Sheets.

**CONSTRUCTION DETAILS**

Construction detail requirements shall be determined at, or shortly after, the Joint Scope Meeting and will be set forth in the Detailed Scope of Work which will be given to the Contractor. The Detailed Scope of Work may reference the Special Notes, Standard Specifications, and/or Standard Sheets.

**METHOD OF MEASUREMENT**

Under the items the Contractor is to enter as their bid, the Adjustment Factor to be applied to the preset unit prices in the Construction Task Catalog, for performing tasks during “Normal Working Hours” or “Other Than Normal Working Hours.”

For bidding purposes only, the Contractor shall multiply their Adjustment Factors for “Normal Working Hours” and “Other Than Normal Working Hours” by the respective dollar quantities listed in the estimate of quantities and units column on the bid sheet to arrive at the amounts bid.

**BASIS OF PAYMENT**

The actual payment to be made to the Contractor for each project will be the Job Order Price. The Job Order Price for projects performed during “Normal Working Hours” and/or “Other Than Normal Working Hours” will be the sum of the following calculation for each task: the unit price in the Construction Task Catalog multiplied by the quantity multiplied by the “Normal Working Hours” Adjustment Factor bid; and/or, the unit price in the Construction Task Catalog multiplied by the quantity multiplied by the “Other Than Normal Working Hours” Adjustment Factor bid.



**SPECIAL NOTE**  
**STATE PREVAILING WAGE RATES**

The New York State Department of Labor (NYSDOL) has issued a project-specific prevailing wage rate schedule for this Contract. The New York State Labor Law requires the Contractor and all subcontractors to ensure that all workers employed in the performance of a public work contract are paid not less than the prevailing wage rate and supplemental (fringe) benefits in the locality where the work is performed.

The project-specific prevailing wage rate schedule, together with all updates and amendments, is incorporated by reference in this Contract, and made a part hereof, as though fully set forth herein. The schedule may be accessed by visiting the NYSDOL website, navigating to the appropriate web page for prevailing wages, and entering the Prevailing Rate Case Number (PRC#). The PRC# is found on NYSDOL Form PW-200, the following page in this Contract Proposal. The project-specific prevailing wage rate schedule and all wage rate amendments are annexed electronically through the following link:

[www.labor.state.ny.us](http://www.labor.state.ny.us)

It is the obligation of the Contractor and all subcontractors to obtain all updated prevailing wage rate schedules and to pay all workers in accordance with the periodic wage rate schedule updates issued by the NYSDOL. Any changes or clarifications of labor classifications, and information on the applicability of particular prevailing wage rates, must be obtained from the Office of the Director of the Bureau of Public Work at the New York State Department of Labor.



Andrew M. Cuomo, Governor

Colleen C. Gardner, Commissioner

NYSDOT

James Tynan, Dir. Construction Div.  
NYSDOT  
POD #51  
50 Wolf Road  
Albany NY 12232

Schedule Year 2010 through 2011  
Date Requested 03/02/2011  
PRC# 2011001787

Location Orange,Dutchess, Putnam Cos.  
Project ID# D261746  
Project Type PIN 8811.67 Bridge Maintenance Repairs and Rehabilitation

**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 2010 through June 2011. 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](http://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](http://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](http://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](http://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, but 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

Colleen C. Gardner, Commissioner

NYSDOT

James Tynan, Dir. Construction Div.  
 NYSDOT  
 POD #51  
 50 Wolf Road  
 Albany NY 12232

Schedule Year 2010 through 2011  
 Date Requested 03/02/2011  
 PRC# 2011001787

Location Orange,Dutchess, Putnam Cos.  
 Project ID# D261746  
 Project Type PIN 8811.67 Bridge Maintenance Repairs and Rehabilitation

**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: \$ _____	Contract Type:	
Approximate Starting Date: ____/____/____	<input type="checkbox"/> (01) General Construction	
Approximate Completion Date: ____/____/____	<input type="checkbox"/> (02) Heating/Ventilation	
	<input type="checkbox"/> (03) Electrical	
	<input type="checkbox"/> (04) Plumbing	
	<input type="checkbox"/> (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 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, 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.

# NEW LEGISLATION

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

### Construction Industry Fair Play Act

- 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](http://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](mailto:dol.misclassified@labor.state.ny.us) .



**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](mailto:dol.misclassified@labor.state.ny.us). All complaints of fraud and violations are taken seriously and you can remain anonymous.**

**Employer Name:**



# NEW LEGISLATION

*Effective February 24, 2008*

## WORKER NOTIFICATION – [A9052](#) – [S6240](#)

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](http://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.



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](http://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) 687-4886
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) 568-5398		

\* 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](http://www.comptroller.nyc.gov) – click on Bureau of Labor Law.

Contractor Name: \_\_\_\_\_

Project Location: \_\_\_\_\_



# NEW LEGISLATION

*Effective July 18, 2008*

## **OSHA 10-hour Construction Safety and Health Course – S1537-A**

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 does not apply to projects advertised for bid prior to July 18, 2008 AND only applies to workers on a public work project that are required under Article 8 to receive the prevailing wage.*

Rules and regulations will be promulgated and posted on the NYSDOL website [www.labor.state.ny.us](http://www.labor.state.ny.us) when finalized.

## 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](http://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](mailto:dlwtpo@rit.edu)

(866) 385-7470 Ext. 2919

[www.rit.edu/~outreach/course.php3?CourseID=54](http://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](mailto:crooksje@umdnj.edu)

(732) 235-9455

<https://ophp.umdnj.edu/wconnect/ShowSchedule.awp?~~GROUP~AOTCON~10~>

### **Keene State College**

Manchester, NH

Leslie Singleton

e-mail: [lsingletin@keene.edu](mailto:lsingletin@keene.edu)

(800) 449-6742

[www.keene.edu/courses/print/courses\\_osh.cfm](http://www.keene.edu/courses/print/courses_osh.cfm)

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

[www.OutreachTrainers.org](http://www.OutreachTrainers.org)

## Requirements for OSHA 10 Compliance

Chapter 282 of the Laws of 2007, codified as Labor Law 220-h will take 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 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;
- 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 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.

**(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

##### 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 2 & 3)*

### Requestor Information

Name: \_\_\_\_\_

Title: \_\_\_\_\_ Date : \_\_\_\_\_

## Job Classification Checklist

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

<b>Job Classification</b>	<b>Tag #</b>	<b>Applicable Counties</b>	<b>Check Box</b>
Electrician	25m	Nassau, Suffolk	<input type="checkbox"/>
Electrician	43	Cayuga, Chenango, Cortland, Herkimer, Madison, Oneida, Onondaga, Oswego, Otsego, Tompkins, Wayne	<input type="checkbox"/>
Electrician	840Teledata	Cayuga, Onondaga, Ontario, Seneca, Wayne, Yates	<input type="checkbox"/>
Electrician	86	Genesee, Livingston, Monroe, Ontario, Orleans, Wayne, Wyoming	<input type="checkbox"/>
Electrician Lineman	1049Line/Gas	Nassau, Suffolk	<input type="checkbox"/>
Electrician Lineman	1249a	Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates	<input type="checkbox"/>
Elevator Constructor	138	Columbia, Delaware, Dutchess, Greene, Orange, Putnam, Rockland, Sullivan, Ulster, Westchester	<input type="checkbox"/>
Elevator Constructor	14	Allegany, Cattaraugus, Chautauqua, Erie, Genesee, Niagara, Orleans, Wyoming	<input type="checkbox"/>
Elevator Constructor	27	Chemung, Livingston, Monroe, Ontario, Schuyler, Seneca, Steuben, Wayne, Yates	<input type="checkbox"/>
Elevator Constructor	35	Albany, Clinton, Columbia, Essex, Franklin, Fulton, Greene, Hamilton, Herkimer, Montgomery, Oneida, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Warren, Washington	<input type="checkbox"/>
Elevator Constructor	62.1	Broome, Cayuga, Chenango, Cortland, Delaware, Jefferson, Lewis, Madison, Oneida, Onondaga, Oswego, St. Lawrence, Tioga, Tompkins	<input type="checkbox"/>
Glazier	677.1	Jefferson, Lewis, Livingston, Monroe, Ontario, Seneca, St. Lawrence, Wayne, Yates	<input type="checkbox"/>
Insulator - Heat & Frost	30-Syracuse	Broome, Cayuga, Chemung, Chenango, Cortland, Herkimer, Jefferson, Lewis, Madison, Oneida, Onondaga, Oswego, Otsego, Schuyler, Seneca, St. Lawrence, Tioga, Tompkins	<input type="checkbox"/>

## Job Classification Checklist

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

<b>Job Classification</b>	<b>Tag #</b>	<b>Applicable Counties</b>	<b>Check Box</b>
Operating Engineer - Heavy& Highway	832H	Allegany, Chemung, Genesee, Livingston, Monroe, Ontario, Schuyler, Steuben, Wayne, Yates	<input type="checkbox"/>
Painter	178 B	Broome, Chenango, Tioga	<input type="checkbox"/>
Painter	178 E	Chemung, Schuyler, Steuben	<input type="checkbox"/>
Painter	178 O	Delaware, Otsego	<input type="checkbox"/>
Painter	31	Cayuga, Herkimer, Lewis, Madison, Oneida, Onondaga, Ontario, Oswego, Seneca	<input type="checkbox"/>
Painter	38.O	Oswego	<input type="checkbox"/>
Painter	4-Buf,Nia, Olean	Allegany, Cattaraugus, Chautauqua, Erie, Genesee, Livingston, Niagara, Orleans, Steuben, Wyoming	<input type="checkbox"/>
Painter	4-Jamestown	Cattaraugus, Chautauqua	<input type="checkbox"/>
Sheetmetal Worker	46	Livingston, Monroe, Ontario, Seneca, Wayne, Yates	<input type="checkbox"/>
Teamster - Heavy&Highway	294h/h	Albany, Columbia, Fulton, Greene, Montgomery, Rensselaer, Saratoga, Schenectady, Schoharie, Warren, Washington	<input type="checkbox"/>
Teamster - Heavy&Highway	317a.hh	Allegany, Cayuga, Cortland, Seneca, Steuben, Tompkins, Wayne, Yates	<input type="checkbox"/>
Teamster - Heavy&Highway	693.H/H	Broome, Chenango, Delaware, Otsego, Tioga	<input type="checkbox"/>

## 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. Although in most cases the payment or provision of supplements is for each hour worked, some classifications require the payment or provision of supplements for each hour paid (including paid holidays on which no work is performed) and/or may require supplements to be paid or provided at a premium rate for premium hours worked.

#### 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](http://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
Rofer	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	631-687-4883	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

**Dutchess County General Construction**

**Asbestos Worker**

**03/01/2011**

**JOB DESCRIPTION** Asbestos Worker

**DISTRICT** 9

**ENTIRE COUNTIES**

Columbia, Delaware, Dutchess, Greene, Orange, Putnam, Rockland, Sullivan, Ulster

**WAGES**

Per hour

7/01/2010-  
 11/30/2010

Asbestos Worker:

Removal & Hazardous

Abatement Only

\$ 36.30 plus additional \$3.00\*

Only for the removal of insulation materials from mechanical systems which are not going to be scrapped.

\* Increase to be allocated at a later date.

**SUPPLEMENTAL BENEFITS**

Per hour paid

Journeyman

\$ 14.00

**OVERTIME PAY**

See (B, E, \*Q, \*\*T, V) on OVERTIME PAGE

**HOLIDAY**

Paid:

See (1) on HOLIDAY PAGE

Overtime:

See (2, 4, 6, 25) on HOLIDAY PAGE

\* Code Q applies to 4,6,& 25.

\*\* Code T applies to 2.

9-12a - Removal Only

**Boilermaker**

**03/01/2011**

**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:

07/01/2010-  
 12/31/2010

01/01/2011

Boilermaker

\$ 46.66

\$ 47.32

Repairs & Renovation

\$ 46.66

\$ 47.32

**SUPPLEMENTAL BENEFITS**

Per Hour:

07/01/2010-  
 12/31/2010

01/01/2011

BoilerMaker

39.1% of Hourly  
 Wage Paid +  
 \$ 16.97

39.1% of Hourly  
 Wage Paid +  
 \$ 19.33

Repairs & Renovation\*

NOTE: "Hourly Wage Paid" shall include any and all premium(s) pay.

\*Same as Boilermaker (Includes replacement of parts and repairs & renovation of an existing unit).

**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.

\*\*Boilermaker gets 4 times the hourly wage rate for working on Labor Day.

\*\*\*Repairs & Renovation see (B,E,Q) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

(1/2) Year Terms at the following percentage of Boilermaker's Wage

1st	2nd	3rd	4th	5th	6th	7th	8th
65%	65%	70%	75%	80%	85%	90%	95%

Supplemental Benefits Per Hour:

	07/01/2010- 12/31/2010	01/01/2011
Boilermaker Apprentice(s)	39.1% of Hourly Wage Paid + \$ 16.97	39.1% of Hourly Wage Paid + \$ 19.33
Repairs & Renovation* Apprentice(s)	39.1% of Hourly Wage Paid + \$ 16.97	39.1 of Hourly Wage Paid + \$ 19.33

NOTE: "Hourly Wage Paid" shall include any and all premium(s) pay.

\*Includes replacement of parts and repairs & renovation of an existing unit.

4-5

**Carpenter**

**03/01/2011**

**JOB DESCRIPTION** Carpenter

**DISTRICT 9**

**ENTIRE COUNTIES**

Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Westchester

**WAGES**

Per hour: 07/01/2010

Marine Construction:

Marine Diver	\$ 56.32
M.D.Tender	40.17

**SUPPLEMENTAL BENEFITS**

Per hour paid:

Journeyman	\$ 40.86
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**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 (5,6,10,11,13,16,18,19)

Overtime: See (5,6,10,11,13,16,18,19) on HOLIDAY PAGE.

**REGISTERED APPRENTICES**

Wager per hour is Percentage of Journeymans Wage

(1) year terms:

1st	2nd	3rd	4th
40%	50%	65%	80%



Supplemental benefits per hour:

Apprentices \$ 26.97

9-1456MC

**Carpenter**

**03/01/2011**

**JOB DESCRIPTION** Carpenter

**DISTRICT 9**

**ENTIRE COUNTIES**

Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Westchester

**WAGES**

Per hour: 07/01/2010

Carpet/Resilient

Floor Coverer \$ 44.02 +Additional \$ 1.32\*

\*Increase to be allocated at a later date

**SUPPLEMENTAL BENEFITS**

Per hour paid:

Floor Coverer \$ 38.58

**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 Percentage of Journeyworkers Wage

(1) year terms:

1st.	2nd.	3rd.	4th.
40%	50%	65%	80%

Supplemental benefits per hour:

Apprentices \$ 25.83

9-2287

**Carpenter**

**03/01/2011**

**JOB DESCRIPTION** Carpenter

**DISTRICT 9**

**ENTIRE COUNTIES**

Dutchess, Orange

**WAGES**

Per hour: 07/01/2010

Building:

Millwright \$ 35.11

**SUPPLEMENTAL BENEFITS**

Per hour paid:

Journeyman \$ 32.80

**OVERTIME PAY**

See (B, E, E2, Q) on OVERTIME PAGE

**HOLIDAY**

HOLIDAY:

Paid: See (18,19) on HOLIDAY PAGE.  
 Paid: See (5,6,11,13,16,18,19,25) for 1st & 2nd yr.Apprentices  
 Overtime: See (5,6,11,13,16,18,19,25) on HOLIDAY PAGE.

**REGISTERED APPRENTICES**

Wages per hour:

(1) year terms at the following percentage of Journeyman's wage.

	1st	2nd	3rd	4th
	55%	65%	75%	95%
Supplemental benefits per hour:				
APPRENTICES:	1st	2nd	3rd	4th
	\$ 22.49	24.46	26.92	30.38

9-740.2

**Carpenter - Building / Heavy&Highway**

**03/01/2011**

**JOB DESCRIPTION** Carpenter - Building / Heavy&Highway

**DISTRICT 8**

**ENTIRE COUNTIES**

Dutchess, Orange, Sullivan, Ulster

**WAGES**

WAGES:(per hour)

07/01/2010

Carpenter	\$ 31.86
Carpenter-Floor Coverer*	31.86
Dockbuilder/Piledriver	31.86
Diver(WET)	50.00
Diver(DRY)	30.00

\* Note: Rate DOES NOT apply in Orange or Dutchess County.

On projects for removal and/or abatement of asbestos or any toxic or hazardous material and it is required by the employer or mandated by NYS or Federal Regulation to wear protective equipment an additional \$2.00 per hour above their appropriate rate for all classifications including apprentices. For work on smokestacks, silos, or steeples more than fifty (50) feet high, an additional \$2.00 per hour, payable from the ground up.

**SUPPLEMENTAL BENEFITS**

(per hour paid)

Journeyman \$ 20.76

**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

BUILDING:

Paid: See ( 1 ) on HOLIDAY PAGE.  
 Overtime: See ( 5, 6 ) on HOLIDAY PAGE.

HEAVY/HIGHWAY:

Paid: See ( 5, 6, 16 ) on HOLIDAY PAGE including benefits.  
 Overtime: See ( 5, 6, 16 ) on HOLIDAY PAGE.

**REGISTERED APPRENTICES**

1 Year terms at the following rates.

1st	2nd	3rd	4th
\$ 16.13	\$ 18.44	\$ 22.35	\$ 26.08

Supplemental Benefits per hour worked:

Apprentices	
1st term	\$ 9.86
2nd term	14.61
3rd term	18.66
4th term	19.17

**Electrician**

**03/01/2011**

**JOB DESCRIPTION** Electrician

**DISTRICT 8**

**ENTIRE COUNTIES**

Sullivan, Ulster

**PARTIAL COUNTIES**

Delaware: Only in the Townships of Andes, Harpersfield, Kortwright, Stamford, Bovina, Roxbury, Middletown and those portions of Colchester and Hancock south of the East Branch of the Delaware River.

Dutchess: All of the county except for the towns of Fishkill, East Fishkill, and Beacon.

Greene: That portion of the county south of a line following the south limits of the city of Catskill in a Westerly direction from the Hudson River to Highway 23A along 23A to the road following the Little Westkill and continuing along this road to Delaware County.

**WAGES**

Per hour:

07/01/2010

Electrician Wireman/Technician

\$ 37.00\*\*

SHIFT DIFFERENTIAL: On Public Work in New York State when shift work is mandated either in the job specifications or by the contracting agency, the following rates apply:

Shift worked between 4:30pm & 12:30am

\$ 43.06\*

Shift worked between 12:30am & 8:30am

\$ 47.99\*

\*\*On jobs where employees are required to work from bosun chairs, swinging scaffolds, etc., forty (40) feet or more above the ground, or under compressed air, using Scottair packs, gas masks or in shafts or tunnels, they shall receive an additional \$2.00 per hour above the regular straight time rate.

**SUPPLEMENTAL BENEFITS**

Per hour worked:

07/01/2010

Journeyman

\$ 20.97 plus  
6% of wage

**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6, 13, 15, 16, 25) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wages:

(6)month terms at the following percentage of journeyman's wage.\*

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
30%	35%	40%	45%	50%	55%	65%	70%	75%	85%

\* Denotes average Journeyman Wireman rate of pay of all wage zones.

Supplemental Benefits per hour worked:

07/01/2010

1st & 2nd term

\$ 6.97 plus 6% of wage

3rd & 4th term

8.92 plus 6% of wage

5th & 6th term

10.87 plus 6% of wage

7th & 8th term

13.82 plus 6% of wage

9th & 10th term

16.72 plus 6% of wage

8-363/2

**Electrician**

**03/01/2011**

**JOB DESCRIPTION** Electrician

**DISTRICT 8**

**ENTIRE COUNTIES**

Orange, Putnam, Rockland

**PARTIAL COUNTIES**

Dutchess: Towns of Fishkill, East Fishkill, and Beacon.

**WAGES**

Per hour: 07/01/2010  
 Electrician Wireman/Technician \$ 41.00\*\*

\*SHIFT DIFFERENTIAL: On Public Work in New York State when shift work is mandated either in the job specifications or by the contracting agency, the following rates apply:

Shift worked between 4:30pm & 12:30am \$ 47.75\*  
 Shift worked between 12:30am & 8:30am \$ 53.25\*

\*\*On jobs where employees are required to work from boatswain chairs, swinging scaffolds, etc., forty (40) feet or more above the ground, or under compressed air, using Scottair packs, gas masks or in shafts or tunnels, they shall receive an additional \$2.00 per hour above the regular straight time rate.

**SUPPLEMENTAL BENEFITS**

Per hour worked: 07/01/2010  
 Journeyman \$ 20.97 plus  
 6% of wage

**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6, 13, 15, 16, 25) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wages:

(6)month terms at the following percentage of Journeyman's wage.\*

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
30%	35%	40%	45%	50%	55%	65%	70%	75%	85%

\* Denotes average Journeyman Wireman rate of all wage zones

Supplemental Benefits per hour worked:	07/01/2010	
1st & 2nd term	\$ 6.97	plus 6% of wage
3rd & 4th term	8.92	plus 6% of wage
5th & 6th term	10.87	plus 6% of wage
7th & 8th term	13.82	plus 6% of wage
9th & 10th term	16.72	plus 6% of wage

8-363/1

**Elevator Constructor**

**03/01/2011**

**JOB DESCRIPTION** Elevator Constructor

**DISTRICT 1**

**ENTIRE COUNTIES**

Dutchess, Orange, Putnam, Sullivan, Ulster

**PARTIAL COUNTIES**

Columbia: Only the Townships of Ancram, Clermont, Copake, Gallatin, Germantown, Livingston and Taghkanic.  
 Delaware: Towns of Andes, Bovina, Colchester, Davenport, Delhi, Harpersfield, Hemdon, Kortright, Meredith, Middletown, Roxbury, Hancock & Stamford  
 Greene: The Townships of Ashland, Catskill, Halcott, Hunter, Jewett, Lexington, Rattsville & Windham  
 Rockland: Only the Township of Stony Point.  
 Westchester: Only the Townships of Bedford, Lewisboro, Cortland, Mt. Kisco, North Salem, Pound Ridge, Somers and Yorktown.

**WAGES**

Per Hour	07/01/2010	01/01/2011
Mechanic	\$ 47.71	\$ 48.96
Helper	70% of Mechanic Wage Rate	70% of Mechanic Wage Rate

(\*\*) To be allocated at a later date

\*\*\*\* IMPORTANT NOTICE - EFFECTIVE 04/01/2009 \*\*\*\*

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 worked	07/01/2010	01/01/2011
Journeyman/Helper	\$ 20.035*	\$21.785*
	*Plus 6% of wages if less than 5 years service	
	*Plus 8% of wages if more than 5 years service	

**OVERTIME PAY**

See (D, O) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6, 15, 16) on HOLIDAY PAGE

Overtime: See (5, 6, 15, 16) on HOLIDAY PAGE

Note: When a paid holiday falls on Saturday, it shall be observed on Friday. When a paid holiday falls on Sunday, it shall be observed on Monday.

**REGISTERED APPRENTICES**

Wages per hour				
1st 6mo	2nd 6mo	2nd yr	3rd yr	4th yr
50 %	55 %	65 %	70 %	80 %

Supplemental Benefits per hour worked

Apprentices	07/01/2010	01/01/2011
	\$ 20.035	\$ 21.785
	+6%	+6%
	of wage	of wage

1-138

**Glazier**

**03/01/2011**

**JOB DESCRIPTION** Glazier

**DISTRICT 9**

**ENTIRE COUNTIES**

Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Sullivan, Ulster, Westchester

**WAGES**

Per hour: 07/01/2010

Glazier \$ 46.60

Scaffolding \$ 47.60

Repair & Maintenance:

Glazier \$ 26.35

\*Increase to be allocated at a later date

Repair & Maintenance- All repair & maintenance work on a particular building, whenever performed, where the total cumulative contract value is under \$100,000.00.

**SUPPLEMENTAL BENEFITS**

Per hour paid:

Journeyworker... \$ 24.69

Glazier  
 Repair & Maintenance\*\*: \$ 14.83

**OVERTIME PAY**

OVERTIME: See (C\*,D\*O) on OVERTIME PAGE.

\* Denotes if an optional 8th hour is required same will be at the regular rate of pay. If 9th hour is worked then both hours or more ( 8th and 9th or more ) will be at the double time rate of pay.

\*\* For Repair & Maintenance see ( B,F, P) on overtime page.

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6, 16, 25) on HOLIDAY PAGE

The Following are paid holidays for the Repair & Maintenance Class:

New Years day, Presidents day, Memorial day, Independents day, Labor day, Thanksgiving day, Day after Thanksgiving, and Christmas day.

**REGISTERED APPRENTICES**

Wage per hour:

(1) year terms at the following wage rates.

1st term...	\$ 15.65
2nd term...	\$ 23.33
3rd term...	\$ 27.98
4th term...	\$ 35.03

Supplemental Benefits:  
 (Per hour worked)

1st term....	\$ 11.89
2nd term....	\$ 17.33
3rd term....	\$ 19.08
4th term....	\$ 22.59

9-1281 (DC9 NYC)

**Insulator - Heat & Frost**

**03/01/2011**

**JOB DESCRIPTION** Insulator - Heat & Frost

**DISTRICT 8**

**ENTIRE COUNTIES**

Dutchess, Orange, Putnam, Rockland, Westchester

**WAGES**

Per hour: 07/01/2010

Asbestos Worker \$ 44.44

Fire Stop Work\*  
 Asbestos Worker \$ 29.49

\* Applies on all exclusive Fire Stop Work (When contract is for Fire Stop work only). No apprentices on these contracts only.

Note: Additional \$0.50 per hour for work 30 feet or more above floor or ground level.

On government mandated shift work of 3 days or more between Monday - Friday, the 2nd shift works 7 1/2 hrs and 3rd shift 7hrs and which shall account for a full 8hr day.  
 In addition if the first eight 8hrs start between 10:00am and 5:00am then the wage must include and addition 20%. All hours in excess of 8hrs shall be paid at time and one half.  
 On the last working day preceding Christmas and New Years day, workers shall work no later than 12:00 noon and shall receive 8 hrs pay.

**SUPPLEMENTAL BENEFITS**

(per hour paid)  
 Journeyman \$ 27.61

Fire Stop Work:  
 Journeyman \$ 18.14

**OVERTIME PAY**

OVERTIME: See ( B ,E, Q, T\*, V ) on OVERTIME PAGE.

**HOLIDAY**

HOLIDAY:

Paid: See ( 1 ) on HOLIDAY PAGE.

Overtime: See ( 2\*, 4, 6, 16, 25 ) on HOLIDAY PAGE.

\*Note: Labor Day triple time if worked.

**REGISTERED APPRENTICES**

( 1 ) year terms at the following percentage of journeyman's rate.

1st	2nd	3rd	4th
\$27.30	\$29.45	\$31.59	\$35.86

Supplemental Benefits paid per hour paid:

Apprentices:

1st term	\$ 17.05
2nd term	17.62
3rd term	19.47
4th term	22.19

8-91

**Ironworker**

**03/01/2011**

**JOB DESCRIPTION** Ironworker

**DISTRICT 8**

**ENTIRE COUNTIES**

Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster

**WAGES**

Per hour:

07/01/2010

Structural	\$ 40.15
Reinforcing	40.15
Ornamental	40.15
Chain Link Fence	40.15

Shift Work: any irregular or off shift shall be paid 8 hours for 7 hours work.

**SUPPLEMENTAL BENEFITS**

Per hour paid:

Journeyman \$ 28.55

**OVERTIME PAY**

OVERTIME:.....See ( B\*, E\*\*, Q, V ) on OVERTIME PAGE.

\*Note: Double Time after 10 hours Monday thru Friday.

\*\*Note: On Saturdays, double time after 8 hours.

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6, 16) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wages:

(1)year terms at the following wage.

1st	2nd	3rd	4th
\$ 20.08	\$ 24.09	\$ 32.12	\$ 36.14

Supplemental Benefits per hour worked:

1st year	\$ 24.55
2nd year	25.35
3rd year	26.95
4th year	27.75

8-417

**Laborer - Building**

**03/01/2011**

**JOB DESCRIPTION** Laborer - Building

**DISTRICT 8**

**ENTIRE COUNTIES**

Dutchess

**PARTIAL COUNTIES**

Columbia: Only the Townships of Greenport, Claverack, Philmont, Clermont, Germantown, Livingston, Hillsdale, Gallatin, Copake, Ancram, Taghkanic and the City of Hudson.

**WAGES**

\*ALL WORK RELATED WITH TOXIC OR ANY ASBESTOS OR HAZARDOUS MATERIAL\*

WAGES: (per hour)\*

07/01/2010

Protective Gear Required

\$ 34.20

Shift Differential: On all Governmental mandated irregular or off shift work, an additional 20% of wage is required.

**SUPPLEMENTAL BENEFITS**

(per hour worked)

Journeyman

\$ 19.70

**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid:

See (1) on HOLIDAY PAGE

Overtime:

See (5, 6) on HOLIDAY PAGE

8-17tox

**Laborer - Building**

**03/01/2011**

**JOB DESCRIPTION** Laborer - Building

**DISTRICT 1**

**ENTIRE COUNTIES**

Dutchess

**PARTIAL COUNTIES**

Columbia: Only the Townships of Ancram, Claverack, Clermont, Copake, Gallatin, Germantown, Greenport, Hillsdale, Hudson, Livingston, Philmont and Taconic.

**WAGES**

GROUP # 1:

All Laborers except those listed in Group 2

GROUP # 2:

Blaster, Laser Beam Oper., Asphalt Rakers, & Drilling Equipment Only Where a Separate Air Compressor Unit Supplies Power

WAGES per hour

07/01/2010

06/01/2011

An Additional

GROUP # 1

\$ 27.75\*

\$1.60\*\*

GROUP # 2

30.10\*

(\*)Any job requiring Hazwopper Certification will pay \$1.00 above job classification wage rate.

(\*\*)To be allocated at a later date

**SUPPLEMENTAL BENEFITS**

Per hour worked

Journeyman

\$ 19.75

**OVERTIME PAY**



See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
Overtime: See (5, 6) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wages per hour

1000 Hour terms

1st term	\$ 15.15
2nd term	17.80
3rd term	20.45
4th term	23.60

Supplemental Benefits per hour worked

Apprentices \$ 10.80

1-1000

**Laborer - Heavy&Highway**

**03/01/2011**

**JOB DESCRIPTION** Laborer - Heavy&Highway

**DISTRICT 1**

**ENTIRE COUNTIES**

Dutchess

**PARTIAL COUNTIES**

Columbia: Only the Townships of Ancram, Claverack, Clermont, Copake, Gallatin, Germantown, Greenport, Hillsdale, Hudson, Livingston, Philmont and Taconic.

**WAGES**

GROUP # 1:

Flagperson, Placing & maintenance of all flares, cones, lights, signs, barricades, traffic patterns and all reflective type materials for traffic control, custodial work, traffic directors, temporary heat or light tenders, tool room.

GROUP # 2:

All Other Classifications not listed in Group # 1 or Group # 3

GROUP # 3:

Asphalt Raker, Asphalt Screedman, Drilling Equipment Only Where a Separate Air Compressor Unit Supplies Power, Laser Beam Operator, Metal Form Setters/Aligners (sidewalk), Blaster, Tunnel and Cassion.

WAGES per hour

07/01/2010

Group # 1	\$ 25.20
Group # 2	28.96
Group # 3	29.96

All employees working on a project that requires Hazwopper Certification will receive \$1.00 per hour over job classification rate of pay.

All employees who work an irregular work day that starts after 9:00 AM on a governmental mandated schedule shall be paid an additional 15% per hour.

**SUPPLEMENTAL BENEFITS**

Per hour worked & paid Holidays

Journeyman \$ 19.95

**OVERTIME PAY**

See (B, E, E2, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6, 13, 15, 25) on HOLIDAY PAGE  
Overtime: See (5, 6, 13, 15, 25) on HOLIDAY PAGE

Note: Whenever a holidays falls on Sunday, it will be observed on the following Monday.

**REGISTERED APPRENTICES**

Wages per hour

1000 hour year terms

1st Term	\$ 15.15
2nd Term	17.85
3rd Term	20.60
4th Term	23.80

Supplemental Benefits per hour worked & paid Holidays

Apprentices	\$ 11.00
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1-1000h

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**Laborer - Heavy&Highway** **03/01/2011**

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**JOB DESCRIPTION** Laborer - Heavy&Highway

**DISTRICT 8**

**ENTIRE COUNTIES**

Dutchess

**PARTIAL COUNTIES**

Columbia: Only the Townships of Greenport, Philmont, Germantown, Livingston, Hillsdale, Taghkanic, Gallatin, Copake, Ancram, City of Hudson.

**WAGES**

\*ALL WORK RELATED WITH TOXIC OR ANY ASBESTOS OR HAZARDOUS MATERIAL\*(Five feet or more outside of building foundation line)

WAGES:(per hour)

07/01/2010

Protective Gear Not Required \$ 32.75

Protective Gear Required \$ 36.65

SHIFT DIFFERENTIAL: On all NYS D.O.T. or other Governmental mandated irregular or off shift work, an additional 15% of wage on straight time pay.

**SUPPLEMENTAL BENEFITS**

(per hour paid)

Journeyman \$ 19.15

**OVERTIME PAY**

See (B, E, Q, \*S) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6, 13, 15, 26) on HOLIDAY PAGE

Overtime: See (5, 6, 13, 15, 26) on HOLIDAY PAGE

\*NOTE: If Saturday Holiday is worked, Code S applies.

**REGISTERED APPRENTICES**

Wages per hour

1000 hour year terms

1st term \$ 19.19

2nd term 22.86

3rd term 26.53

4th term 30.20

Supplemental Benefits per hour paid:

Apprentice \$ 15.20

8-17tox

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**Lineman Electrician** **03/01/2011**

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**JOB DESCRIPTION** Lineman Electrician

**DISTRICT 6**

**ENTIRE COUNTIES**

Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

**WAGES**

Per hour:

Includes Teledata Work within Ten feet of High Voltage Transmission Lines

	07/01/2010	05/02/2011	05/07/2012
Lineman/Tech./Welder	\$ 43.82	\$ 44.52	\$45.23
Cable splicer	43.82	44.52	45.23
Digging Machine Operator	39.44	40.07	40.71
Tractor Trailer Driver	37.25	37.84	38.45
Groundman/Truck Driver	35.06	35.62	36.18
Mechanic 1st Class	35.06	35.62	36.18
Flagman	26.29	26.71	27.14

Additional 1.00 per hr.for entire crew when a helicopter is used.

Above rates applicable on all overhead Transmission line work & Fiber Optic Cable where other construction trades are or have been involved. This applies to transmission line work only, not other construction.

Lineman/Technician/Welder	\$ 42.61	\$ 43.31	\$ 44.01
Digging Machine Operator	38.35	38.98	39.61
Tractor Trailer Driver	36.22	36.81	37.41
Groundman/Truck Driver	34.09	34.65	35.21
Mech. 1st Class	34.09	34.65	35.21
Flagman	25.57	25.99	26.41
Certified WelderPipe Type Cable	44.74	45.48	46.21
Cable Splicer pipe type cable	46.87	47.64	48.41

Additional 1.00 per hour for entire crew when a helicopter job.

Above rates apply on Switching Structures, Maintenance projects, Railroad Catenary install/maint, Third rail installation, Bonding of Rails and pipe type cable and installation of Fiber Optic Cable.

Lineman /Techician	\$ 41.32	\$ 42.02	\$ 42.72
Welder/Cable Splicer	41.32	42.02	42.72
Digging Machine Operator	37.19	37.82	38.45
Tractor Trailer Driver	35.12	35.72	36.31
Groundman/Truck Driver	33.06	33.62	34.18
Mechanic 1st Class	33.06	33.62	34.18
Flagman	24.79	25.21	25.63

Additional 1.00 per.hr.for entire crew when a helicopter is used.

Above rates applicable on all overhead and underground distribution and maintenance work, and all overhead and underground transmission line work and the installation of Fiber Optic Cable where no other construction trades are or have been involved.

Lineman/Technician	\$ 41.32	\$ 42.02	\$ 42.72
Cable Splicer pipe type cable	45.45	46.22	46.99
Certified Welder pipe type	43.39	44.12	44.86
Digging Machine Operator	37.19	37.82	38.45
Tractor Trailer Driver	35.12	35.72	36.31
Mechanic 1st Class	33.06	33.62	34.18
Groundman/Truck Driver	33.06	33.62	34.18
Flagman	24.79	25.21	25.63

Additional \$ 1.00 per hour for entire crew when a helicopter is used.

Above rates applicable on all electrical sub-stations, switching structures, fiber optic cable and all other work not defined as "Utility outside electrical work"

Four (4), ten (10) hour days may be worked at straight time during a week, Monday thru Thursday. Friday may be used as a make-up day.

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 worked including holidays listed below:

The following SUPPLEMENTAL benefits apply to all classification categories of CONSTRUCTION, TRANSMISSION and DISTRIBUTION.

\$ 15.00	\$ 16.50	\$ 18.25
*plus 7% of hourly wage paid	*plus 7% of hourly wage paid	*plus 7% of hourly wage paid

**OVERTIME PAY**

See (B, E, Q,) on OVERTIME PAGE. Double time for all emergency work designated by the Dept. of Jurisdiction.

NOTE: THE FOLLOWING RATES WILL APPLY ON ALL CONTRACTING AGENCY MANDATED SHIFTS OF AT LEAST FIVE ( 5 ) DAYS DURATION WORKED BETWEEN THE HOURS LISTED BELOW:

1st shift	8:00 AM to 4:30 PM REGULAR RATE
2nd shift	4:30 PM to 1:00 AM REGULAR RATE PLUS 17.3 %
3rd shift	12:30 AM to 9:00 AM REGULAR RATE PLUS 31.4 %

**HOLIDAY**

Paid See ( 5, 6, 8, 13, 25 ) on HOLIDAY PAGE plus Gov. of NYS Election Day.  
 Overtime See ( 5, 6, 8, 13, 25 ) on HOLIDAY PAGE plus Gov. of NYS Election Day.

SUPPLEMENTS for holidays paid at straight time

**REGISTERED APPRENTICES**

( 1000 ) hr terms at the following percentage of Journeyman's wage.

1st	2nd	3rd	4th	5th	6th	7th
60%	65%	70%	75%	80%	85%	90%

Supplemental Benefits per hour worked:

The following SUPPLEMENTAL benefits apply to all classification categories of CONSTRUCTION, TRANSMISSION and DISTRIBUTION.

\$ 15.00	\$ 16.50	\$ 18.25
*plus 7% of hourly wage paid	*plus 7% of hourly wage paid	*plus 7% of hourly wage paid

\*NOTE: The 7% is based on the hourly wage paid, straight time rate or premium rate.

6-1249a

**Lineman Electrician - Teledata**

**03/01/2011**

**JOB DESCRIPTION** Lineman Electrician - Teledata

**DISTRICT** 6

**ENTIRE COUNTIES**

Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Westchester, Wyoming, Yates

**WAGES**

Per hour:

FOR WORK OUTSIDE BUILDING PROPERTY LINES.

	07/01/2010	01/01/2011
Cable Splicer	\$ 26.64	\$ 27.44
Installer/Repairman	25.29	26.05
Teledata Lineman	25.29	26.05
Technician/Equip Oper	25.29	26.05
Groundman	13.40	13.81

NOTE: EXCLUDES Teledata work within ten feet of High Voltage (600 volts and over) transmission lines. For this work please see LINEMAN.

**SUPPLEMENTAL BENEFITS**

Per hour worked:

\$ 4.43	\$ 4.43
*plus 3% of hourly wage paid	*plus 3% of hourly wage paid

\*NOTE: The 3% is based on the hourly wage paid, straight time rate or premium rate.

**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6, 16) on HOLIDAY PAGE

6-1249LT - Teledata

**Lineman Electrician - Traffic Signal Lighting 03/01/2011**

**JOB DESCRIPTION** Lineman Electrician - Traffic Signal Lighting **DISTRICT 6**

**ENTIRE COUNTIES**  
 Columbia, Dutchess, Orange, Putnam, Rockland, Ulster

**WAGES**

Per hour:

For all Lighting and Traffic Signal Systems.

	07/01/2010	05/02/2011	05/07/2012
Lineman/Technician	\$ 38.80	\$39.26	\$39.50
Certified Welder	40.74	41.22	41.48
Digging Machine	34.92	35.33	35.55
Tractor Trailer driver	32.98	33.37	33.58
Groundman Truck Driver	31.04	31.41	31.60
Mechanic 1st Class	31.04	31.41	31.60
Flagman	23.28	23.56	23.70

Above rates applicable on ALL Lighting and Traffic Signal Systems and the installation, testing, operation, maintenance and repair of all traffic control and illumination projects, traffic monitoring systems, road weather information systems and the installation of Fiber Optic Cable.

**SUPPLEMENTAL BENEFITS**

Per hour worked including holidays listed below:

All classifications	\$ 15.00	\$16.50	\$18.25
	*plus 6.5% of hourly wage paid	*plus 6.5% of hourly wage paid	*plus 6.5% of hourly wage paid

\*NOTE: The 6.5% is based on the hourly wage paid, straight time rate or premium rate.  
 Supplements paid at STRAIGHT TIME rate for holidays.

**OVERTIME PAY**

See (B, E, Q,) on OVERTIME PAGE. Note\* Double time for all emergency work designated by the Dept of Jurisdiction.

NOTE: THE FOLLOWING RATES WILL APPLY ON ALL CONTRACTING AGENCY MANDATED SHIFTS OF AT LEAST FIVE ( 5 ) DAYS DURATION WORKED BETWEEN THE HOURS LISTED BELOW:

1ST SHIFT	8:00 AM TO 4:30 PM REGULAR RATE
2ND SHIFT	4:30 PM TO 1:00 AM REGULAR RATE PLUS 17.3%
3RD SHIFT	12:30 AM TO 9:00 AM REGULAR RATE PLUS 31.4%

**HOLIDAY**

HOLIDAY:  
 Paid: See ( 5, 6, 8, 13, 25 ) on HOLIDAY PAGE and Gov of NYS Election Day.  
 Overtime: See ( 5, 6, 8, 13, 25 ) on HOLIDAY PAGE and Gov of NYS Election Day.

**REGISTERED APPRENTICES**

WAGES: (1000) hr terms at the following percentage of Journeyman Lineman/Technician wage.

1st 60%	2nd 65%	3rd 70%	4th 75%	5th 80%	6th 85%	7th 90%
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SUPPLEMENTAL BENEFITS: Same as Journeyman/Technician.

6-1249aReg8LT

**Lineman Electrician - Tree Trimmer**

**03/01/2011**

**JOB DESCRIPTION** Lineman Electrician - Tree Trimmer

**DISTRICT 6**

**ENTIRE COUNTIES**

Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

**WAGES**

Per hour:

Applies to line clearance, tree work and right-of-way preparation on all new or existing energized overhead or underground electrical, telephone and CATV lines. This also would include stump removal near underground energized electrical lines, including telephone and CATV lines.

	07/01/2010	01/02/2011	01/01/2012
Tree trimmer	\$ 21.22	\$ 21.64	\$ 22.08
Equip Operator	18.72	19.09	19.48
Mechanic	18.72	19.09	19.48
Truck Driver	15.82	16.14	16.46
Ground person	12.99	13.25	13.51
Flag person	9.25	9.44	9.62

**SUPPLEMENTAL BENEFITS**

Per hour worked:

	07/01/2010	01/02/2011	01/01/2012
	\$ 6.84	\$ 7.36	\$ 7.88
	*plus 3% of hourly wage paid	*plus 3% of hourly wage paid	*plus 3% of hourly wage paid

Supplements paid at STRAIGHT TIME rate for holidays.

\*NOTE: The 3% is based on the hourly wage paid, straight time rate or premium rate.

**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6, 8, 15, 16, 25) on HOLIDAY PAGE  
 Overtime: See (5, 6, 8, 15, 16, 25) on HOLIDAY PAGE

6-1249TT

**Mason - Building**

**03/01/2011**

**JOB DESCRIPTION** Mason - Building

**DISTRICT 9**

**ENTIRE COUNTIES**

Dutchess, Sullivan, Ulster

**WAGES**

Per hour:	07/01/2010
Building	
Tile Finisher	\$ 31.97

**SUPPLEMENTAL BENEFITS**

Journeyman: \$ 18.40

**OVERTIME PAY**

See (A, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6, 8, 10, 11, 15, 16) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wages:

(per hour):

( 750 hour ) terms at the following percentages of journeyman's wage.

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	65%	70%	75%	85%	90%	95%

Supplemental Benefits:

Apprentices:

(750 hour) terms at the following percentages of journeymans wage.

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	65%	70%	75%	85%	90%	95%

9-7/88B-tf

**Mason - Building**

**03/01/2011**

**JOB DESCRIPTION** Mason - Building

**DISTRICT 9**

**ENTIRE COUNTIES**

Dutchess, Sullivan, Ulster

**WAGES**

Per hour: 07/01/2010

Building:

Tile Setters \$ 36.16

**SUPPLEMENTAL BENEFITS**

Journeyman: \$ 20.65

**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6, 8, 10, 11, 15, 16) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wages

(per hour):

( 750 hr ) terms at the following percentage of journeyman's wage.

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	65%	70%	75%	85%	90%	95%

Supplemental Benefits:

(750) hour terms at the following percentages of journeyman's wage

Apprentice:

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	65%	70%	75%	85%	90%	95%

9-7/52B

**Mason - Building**

**03/01/2011**

**JOB DESCRIPTION** Mason - Building

**DISTRICT 8**

**ENTIRE COUNTIES**

Dutchess, Sullivan, Ulster

**PARTIAL COUNTIES**

Orange: Entire county except the Township of Tuxedo.

**WAGES**

Per hour 07/01/2010

Bricklayer	\$ 36.75
Cement Mason Bldg	36.75
Plasterer/Stone Mason	36.75
Pointer/Caulker	36.75

Additional \$1.00 per hour for power saw work

Additional \$0.50 per hour for swing scaffold or staging work

**SUPPLEMENTAL BENEFITS**

Per hour paid

Journeyman \$ 26.93

**OVERTIME PAY**

Cement Mason See ( D, E2, O ) on OVERTIME PAGE.  
 All Others See ( B, E, E2, Q ) on OVERTIME PAGE.

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wages per hour

One Half Year terms at the following percentage of Journeyman's wage

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	60%	65%	70%	75%	80%	85%

Supplemental Benefits per hour paid

1st & 2nd terms \$14.84  
 All others 26.93

8-5du-b

**Mason - Heavy&Highway** **03/01/2011**

**JOB DESCRIPTION** Mason - Heavy&Highway

**DISTRICT** 8

**ENTIRE COUNTIES**

Dutchess, Sullivan, Ulster

**PARTIAL COUNTIES**

Orange: Entire county except the Township of Tuxedo.

**WAGES**

Per hour

07/01/2010

Bricklayer	\$ 37.25
Cement Mason	37.25
Marble/Stone Mason	37.25
Plasterer	37.25
Pointer/Caulker	37.25

Additional \$1.00 per hour for power saw work  
 Additional \$0.50 per hour for swing scaffold or staging work

**SUPPLEMENTAL BENEFITS**

Per hour paid

Journeyman \$ 26.93

**OVERTIME PAY**

See (B, O) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6, 15, 25) on HOLIDAY PAGE  
 Overtime: See (5, 6, 15, 25) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wages per hour

One Half Year terms at the following percentage of Journeyman's wage

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	60%	65%	70%	75%	80%	85%

Supplemental Benefits per hour paid



1st & 2nd terms \$ 14.84  
All others 26.93

8-5du-H/H

**Operating Engineer - Building**

**03/01/2011**

**JOB DESCRIPTION** Operating Engineer - Building

**DISTRICT 8**

**ENTIRE COUNTIES**

Putnam, Westchester

**PARTIAL COUNTIES**

Dutchess: (\*NOTE: This description is in effect up to 08/31/2006). \*South of a West/East line through Dutchess County starting at the Northern Boundary of the City of Poughkeepsie.

(\*\*NOTE: This change takes effect on 09/01/2006)\*\*The part of Dutchess (defined by the northern boundary line of City of Poughkeepsie, then due east to Route 115, then north along Route 115 to Bedell Road, then east along Bedell Road to VanWagner Road, then north along VanWagner Road to Bower Road, then east along Bower Road to Rte. 44, and along Rt. 44 east to route 343, then along route 343 east to the northern boundary of Town of Dover Plains, and east along the northern boundary of Town of Dover Plains to the border line of the State of Connecticut, and bordered on the west by the middle of the Hudson River).

**WAGES**

GROUP I: Cranes(All Types), Boom Trucks, Cherry Pickers(All Types), Clamshell Crane, Derrick(Stone-Stell), Dragline, Franki Pile Rig or similar Hydraulic Cranes, Pile Drivers(All Types).

\*All Tower Cranes, all Climbing Cranes and all Cranes of 100 ton capacity or greater.

GROUP I-A: Barber Green Loader-Euclid Loader, Bulldozer, Carrier-Trailer Horse, Concrete Cleaning Decontamination Machine Operator, Concrete-Portable Hoist, Conway or Similar Mucking Machines, Elevator & Cage, Excavators all types, Front End Loaders, Gradall, Shovel, Backhoe, etc.(Crawler or Truck), Heavy Equipment Robotics Operator/Mechanic, Hoist Engineer-Material, Hoist Portable Mobile Unit, Hoist-Single, Double or Triple Drum, Horizontal Directional Drill Locator, Horizontal Directional Drill Operator, and Jersey Spreader, Letourneau or Tournapull(Scrapers over 20 yards Struck), Lift Slab Console, etc., Lull HiLift or Similar, Maintenance Engineer, Master Environmental Maintenance Mechanics, Mucking Machines Operator/Mechanic or Similar Type, Overhead Crane, Pavement Breaker(Air Ram), Paver(Concrete), Post Hole Digger, Power House Plant, Road Boring Machine, Road Mix Machine, Ross Carrier and Similar Machines, Rubber tire double end backhoes and similar machines, Scoopmobile-Tractor-Shovel Over 1.5 yards, Shovel (Tunnels Side Boom, Spreader (Asphalt Telephies(Cableway), Tractor Type Demolition Equipment, Trenching Machines-Vermeer Concrete Saw Trencher and Similar, Ultra High Pressure Waterjet Cutting Tool System, Vacuum Blasting Machine operator/mechanic, Winch Truck A Frame).

GROUP I-B: Compressor (Steel Erection), Mechanic (Outside All Types, Negative Air Machine (Asbestos Removal), Pulse Meter, Push Button (Buzz Box), Elevator, Welder.

GROUP II-A: Bulldozer D6 and Under, Compactor Self-Propelled, Grader, Machines Pulling Sheep's Foot Roller, Roller 4 ton and over, Scrapers-20 yards Struck and Under, Vibratory Rollers, etc.

GROUP III-A: Asphalt Plant, Boiler (High Pressure), Concrete Mixing Plants, Concrete Pump, Fireman, Forklift, Forklift (Electric) Joy Drill or similar Tractor Drilling Machine, Loader-1 1/2 yards and under, Locomotive (All Sizes), MixerConcrete-21E and over, Portable Asphalt Plant, Portable Batch Plant, Portable Crusher, Quarry Master, StoneCrusher, Well Drilling Machine, Well Point System, Concrete Buggy, One Yard and Up Ride on Dumper, Benford or Similar, Bobcat.

GROUP III-B: Compressor Over 125 cu.Feet, Conveyor Belt Machine Regardless of Size, Compressor Plant, Ladder Hoist, Lighting Unit (Portable & Generator), Stud Machine, Welding Machine (Steel Erection & Excavation).

GROUP IV-A: Air Tractor Drill, Batch Plant, Bending Machine, Concrete Breaker, Concrete Spreader, Curb Cutter Machine, Farm Tractor (all types), Finishing Machine-Concrete, Material Hopper-sand stone-cement, Mixer-Concrete-Under 21E, Mulching Grass Spreader, Pump-Gypsum etc, Fine

Grading Machine, Roller under 4 Ton Hepa Vac Clean Air Machine, Spreading and Fine Grading Machine, Steel Cutting Machine, Siphon Pump-air-steam, Tar Joint Machine, Turbo Jet Burner or Similar Equipment, Vibrator (1 to 5), Fine Grading Machine, Roof Hoist (Tugger Hoist), Television Cameras for Water, Sewer, Gas etc. Pump-Plaster-Grout-Fireproofing.

GROUP IV-B: Compressor to 125 feet, Dust Collector, Heater all types, Pump, Pump Station (Water and Sewer), Steam Jenny, Sweeper, Chipper, Mulcher.

GROUP V-A: Concrete Saw, Oiler Fuel Truck, Oiler Grease Truck.

GROUP V-B: Mechanics Helper, Oiler, Stock Attendant, Paint Compressor, Welder's Helper, Motorized Roller (walk behind).

GROUP VI-A: Master Mechanic, Assistant Master Mechanic, Helicopter Hoist Operator, Helicopter Pilot, Helicopter Signal Man, Welder Certified.

GROUP VI-B: Utility Man, Warehouse Man, Second Engineer, Cable Splicer.

WAGES: (per hour)

07/01/2010

GROUP I	\$ 50.15
*Tower Cranes	56.72
GROUP I-A	43.81
GROUP I-B	40.34
GROUP II-A	42.25
GROUP III-A	40.68
GROUP III-B	38.70
GROUP IV-A	40.27
GROUP IV-B	33.94
GROUP V-A	38.70
GROUP V-B	36.64
GROUP VI-A	
Master Mechanic	46.02
Asst.Master Mechanic	39.24
Helicopter Hoist Oper	44.58
Helicopter Pilot	50.88
Helicopter Signal Man	39.86
Welder Certified	43.01
GROUP VI-B	
Utility Man	34.73
Warehouse Man	36.44
Second Engineer	36.51
Cable Splicer	40.00

An additional 20% to wage when required to wear protective equipment on hazardous/toxic waste projects.

Engineers operating cranes with booms 100 feet but less than 149 feet in length will be paid an additional \$2.00 per hour. Engineers operating cranes with booms 149 feet or over in length will be paid an additional \$3.00 per hour.

Loader operators over 5 cubic yard capacity additional .50 per hour.

Shovel operators over 4 cubic yard capacity additional \$1.00 per hour.

**SUPPLEMENTAL BENEFITS**

(per hour)

07/01/2010

Journeyman \$15.96 Per hour paid.  
+7.40 Per hour worked.  
+ .80 per hour on all hours paid

**OVERTIME PAY**

OVERTIME:..... See ( D, O, U\*, V ) on OVERTIME PAGE.

**HOLIDAY**

HOLIDAY:

Paid:..... See ( 5, 6, 7, 8, 11, 12 ) on HOLIDAY PAGE.

Overtime:..... See ( 5, 6, 7, 8, 11, 12 ) on HOLIDAY PAGE.

\* Note: For Holiday codes 5 & 6, code T applies.

Note: If employees are required to work on Easter Sunday they shall be paid at the rate of triple time.

8-137B

**Operating Engineer - Building**

**03/01/2011**

**JOB DESCRIPTION** Operating Engineer - Building

**DISTRICT 1**

**ENTIRE COUNTIES**

Albany, Clinton, Columbia, Essex, Franklin, Fulton, Greene, Hamilton, Herkimer, Montgomery, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Warren, Washington

**PARTIAL COUNTIES**

Dutchess: Defined as north of the northern boundary line of City of Poughkeepsie then due east to Route 115 to Bedelt Road then east along Bedelt Road to VanWagner Road then north along VanWagner Road to Bower Road then east along Bower Road to Rte. 44 east to Route 343 then along Route 343 east to the northern boundary of Town of Dover Plains and east along the northern boundary of Town of Dover Plains to Connecticut.

**WAGES**

CLASS A1:

Crane, hydraulic cranes, tower crane, locomotive crane, piledriver, cableway, derricks,whirlies, dragline, boom trucks over 5 tons.

CLASS A:

Shovel, all Excavators (including rubber tire full swing), Gradalls, power road grader, all CMI equipment, front-end rubber tire loader, tractor-mounted drill (quarry master), mucking machine, concrete central mix plant, concrete pump, belcrete system, automated asphalt concrete plant, and tractor road paver, boom trucks 5 tons and under, maintenance engineer, self-contained crawler drill-hydraulic rock drill.

CLASS B:

Backhoes (rubber tired backhoe/loader combination), bulldozer, pushcat, tractor, traxcavator, scraper, LeTourneau grader, form fine grader, self-propelled soil compactor (fill roller), asphalt roller, blacktop spreader, power brooms, sweepers, trenching machine, Barber Green loader, side booms, hydro hammer, concrete spreader, concrete finishing machine, one drum hoist, power hoisting (single drum), hoist two drum or more, three drum engine, power hoisting (two drum and over), two drum and swinging engine, three drum swinging engine, hod hoist, A-L frame winches, core and well drillers (one drum), post hole digger, model CHB Vibro-Tamp or similar machine, batch bin and plant operator, dinky locomotive, skid steer loader, track excavator 5/8 cubic yard or smaller, front end rubber tired loader under four cubic yards, vac truck.

CLASS C:

Fork lift, high lift, all terrain fork lift: or similar, oiler, fireman and heavy-duty greaser, boilers and steam generators, pump, vibrator, motor mixer, air compressor, dust collector, welding machine, well point, mechanical heater, generators, temporary light plants, electric submersible pumps 4" and over, murphy type diesel generator, conveyor, elevators, concrete mixer, beltcrete power pack (belcrete system), seeding, and mulching machines, pumps.

\* In the event that equipment listed above is operated by robotic control, the classification covering the operation will be the same as if manually operated.

WAGES per hour

07/01/2010

Class # A1	\$ 32.98
Class # A	32.54
Class # B	31.63
Class # C	29.06

Additional \$0.50 per hr for Tower Cranes.

Additional \$0.50 per hr for Cranes with Boom length & jib 150ft. and over.

Additional \$1.00 per hr for Cranes with Boom length & jib 200ft. and over.

Additional \$2.00 per hr over B rate for Nuclear Leader work.

Additional \$0.40 per hr for tunnel or excavation of shaft 40' or more deep.

Additional \$2.50 per hr. for hazardous waste removal work on State and/or Federally designated waste site which require employees to wear Level C or above forms of personal protection

**SUPPLEMENTAL BENEFITS**

Per hour paid

Journeyman \$ 20.37

**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

Note: If a holiday falls on Sunday, it will be celebrated on Monday. If the holiday falls on Saturday, it will be celebrated on Friday.  
Employees who work a Saturday holiday shall be paid double time plus the holiday pay.

**REGISTERED APPRENTICES**

Wages per hour

1000 hours terms at the following percentage of Journeyman's wage Class B

1st	2nd	3rd	4th
60%	70%	80%	90%

Supplemental Benefits per hour paid

All terms \$ 16.05

1-106b

**Operating Engineer - Heavy&Highway** **03/01/2011**

**JOB DESCRIPTION** Operating Engineer - Heavy&Highway

**DISTRICT 9**

**ENTIRE COUNTIES**

Dutchess, Putnam, Westchester

**WAGES**

NOTE: Also covers Feasibility and Preliminary Design surveying, Line and Grade surveying for Inspection or Supervision of Construction when performed under a Consulting Engineer Agreement.

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 Crew

Catorgories cover GPS & Underground Suveying

Per Hour: 07/01/2010

Party Chief	\$ 52.79
Instrument Man	38.02
Rodman	32.67

**SUPPLEMENTAL BENEFITS**

Per Hour: 07/01/2010

All Catorgories

Straight Time: \$ 21.95 + \$3.61 (taxable)

Premium:

Time & 1/2 \$ 35.52

Double Time \$ 45.57

**OVERTIME PAY**

See (B, \*E, Q) on OVERTIME PAGE

\* Doubletime paid on the 9th hour on Saturday.

**HOLIDAY**

Paid: See (5, 6, 7, 11, 12) on HOLIDAY PAGE

Overtime: See (5, 6, 7, 11, 12) on HOLIDAY PAGE

9-15Dh

**Operating Engineer - Heavy&Highway** **03/01/2011**

**JOB DESCRIPTION** Operating Engineer - Heavy&Highway

**DISTRICT 8**

**ENTIRE COUNTIES**

Putnam, Westchester

**PARTIAL COUNTIES**

Dutchess: (\*NOTE: This description is in effect up to 08/31/2006). \*South of a West/East line through Dutchess County starting at the Northern Boundary of the City of Poughkeepsie.

(\*\*NOTE: This change takes effect on 09/01/2006)\*\*The part of Dutchess (defined by the northern boundary line of City of Poughkeepsie, then due east to Route 115, then north along Route 115 to Bedell Road, then east along Bedell Road to VanWagner Road, then north along VanWagner Road to Bower Road, then east along Bower Road to Rte. 44, and along Rt. 44 east to route 343, then along route 343 east to the northern boundary of Town of Dover Plains, and east along the northern boundary of Town of Dover Plains to the border line of the State of Connecticut, and bordered on the west by the middle of the Hudson River).

**WAGES**

GROUP I: Boom Truck, Cherry Picker, Clamshell, Crane, (Crawler, Truck), Dragline, Rough Terrain Crane.

GROUP I-A: Auger, Auto Grader, Dynahoe and Dual purpose and similar machines, Barber Green Loader-Euclid Loader or similar type machine, boat captain, boring machine(all types), Bulldozer-All Sizes, Central Mix Plant Operator, Cherry Picker(Cableway)-Hydraulic, chipper (all types), close circuit t.v., Compactor with Blade, Concrete Portable Hoist, C.M.I. or Similar, Conway or Similar Mucking Machines, Gradall, Shovel Backhoe, etc. Grader, Derrick (Stone-Steel) Elevator & Cage, Front End Loaders over 1 1/2yds Hoist Single, Double, Triple Drum, Hoist Portable Mobile Unit, Hoist Engineer Concrete(Crane-Derrick-Mine Hoist), Hoist Engineer-Material, Hydraulic Boom, Letourneau or Tournapull (Scrapers over 20 yds struck), Mucking Machines, Overhead Crane, Paver (concrete) Pulsemeter, Push Button (Buss Box) Elevator, Road Mix Machines, Ross Carrier and similar, Shovels (Tunnels), SideBoom, Spreader (asphalt), Scoopmobile-Tractor-Shovel over 1 1/2 yards, Trenching Machines, Telephies-Vermeer Concrete Saw Trencher and/or Similar, Tractor type Demolition Equipment, Whirly,P-811 Track Renewal Machine-Similiar, certified Welder.

GROUP I-B: Road Paver-Asphalt.

GROUP II-A: Balast regulators, Compactor Self Propelled, Cow Tracks, Fusion Machine, Rail Anchor Machines, Scrapers-20 yds truck and under, Switchtampers, Vibrator Roller, etc., Roller 4 ton and over, Welder.

GROUP II-B: Mechanic-All Types.

GROUP III: Air Tractor Drill, Asphalt Plant, Batch Plant, Boiler (High Pressure), Concrete Breaker, Concrete Pump, Concrete Spreader, Curb Cutter Machine, Farm Tractor (All Types), Finishing Machine (Concrete) Fine Grading Machine, Fireman, Forklift, Forklift (Electric) John Henry drill or similar, Joy Drill or similar Tractor Drilling Machine, Loader 1 1/2 yards and under, Locomotive(All Sizes), Maintenance Engineer, Machine Pulling Sheep's Foot Roller, Material Hopper, Mixer Concrete-21E and over, Mulching Grass Spreader, Portable Plant, Portable Batch Plant, Portable Crusher, Powerhouse Plant, Quarry Master, Roller under 4 ton, Spreading and Fine Grading Machine, Steel Cutting Machine, Stone Crusher, Sweeper, Turbo JetBurner or Similar, Well Drilling Machine, Winch Truck, "A" Frame Truck.

GROUP IV-A: Service Man (Fuel Truck), Service Man (Grease Truck).

GROUP IV-B: Compressor-Compressor Plant-Paint Compressor-Steel Erection, ConveyorBelt Machine, Lighting Unit (Portable & Generator), Pilot/Assistant Engineer/2 seated, Pumps-Pump Station-Water-Sewer-Gypsum-Plaster, etc., Pump Truck(Sewer Jet or Similar), Roller-Motorized (Walk Behind), Welding Machine Steel Erection Excavation), Well Point System, Welder's Helper, Mechanic's Helper, Bending Machine, Dust Collector, Mixer Concrete under 21-E, Heater all types, Steam Jenny, Stock Room Attendant, Siphon Pump-Air-Steam, Tar Joint Machine, Vibrator (1 to 5), Compressor Truck mounted (2-6).

GROUP V-A: Master Mechanic, Master Mechanic Asst., Helicopter Hoist Operator, Engineer-All Tower Cranes-All Climbing Cranes and all cranes of 100 ton capacity or greater(3900 Manitowac or similar), Hoist Engineer(Steel), Engineer-Pile Driver, Welder-Certified, Helicopter Pilot, Helicopter Signalman, Jersey Spreader, Pavement Breaker(Air Ram), Post Hole Digger.

GROUP V-B: Concrete Saw, Oiler, Utility Man.

WAGES: (per hour)

07/01/2010

Group I	\$ 49.99
Group I-A	44.14
Group I-B	45.70
Group II-A	42.29
Group II-B	43.60
Group III	41.56
Group IV-A	37.83
Group IV-B	32.56
Group V-A	
Master Mechanic/Asst	46.70
Helicopter Hoist Oper	45.26
Engineer All Tower, Climbing and Cranes of 100 Tons	56.55
Hoist Engineer(Steel)	50.52
Engineer(Pile Driver)	53.90
Helicopter Pilot	50.52

Helicopter Signalman	42.09
Jersey Spreader,Pavement Breaker. (Air Ram)Post Hole Digger	42.47
Group V-B	
Utility Man	31.02
Concrete Saw	35.40
Oiler	30.54

SHIFT DIFFERENTIAL: On all NYS D.O.T. and other Governmental mandated off-shift work, an additional 15% of wage on all hours and including overtime.

Engineers operating cranes with booms 100 feet but less than 149 feet in length will be paid an additional \$2.00 per hour over the rate listed in the Wage Schedule. Engineers operating cranes with booms 149 feet or over in length will be paid an additional \$3.00 per hour over the rate listed in the Wage Schedule. Operators of shovels with a capacity over (5) cubic yards shall be paid an additional \$.50 per hour over the rate listed in the Wage Schedule. Operators of loaders with a capacity over 4 cubic yards shall be paid an additional \$1.50 per hour.

**SUPPLEMENTAL BENEFITS**

(per hour)

07/01/2010

Journeyman: \$ 16.02 on all hours paid.  
PLUS \$7.65 limited to 1st 40 hours worked.  
PLUS .70 per hour on all hours worked

**OVERTIME PAY**

OVERTIME:.... See ( B, E, Q, U\* ) on OVERTIME PAGE.

**HOLIDAY**

HOLIDAY:

Paid:..... See ( 5, 6, 7, 8, 11, 12 ) on HOLIDAY PAGE.

Overtime:.... See ( 5, 6, 7, 8, 11, 12 ) on HOLIDAY PAGE.

\* Note: For Holiday codes 5 & 6, code U applies.

Note: If employees are required to work on Easter Sunday they shall be paid at the rate of triple time.

**REGISTERED APPRENTICES**

(1)year terms at the following rate.

07/01/2010

1st term	\$20.78
2nd term	24.93
3rd term	29.09
4th term	33.24

Supplemental Benefits per hour:

Apprentices: \$ 16.02 on all hours paid.  
PLUS .70 per hour on all hours worked.

8-137HH

**Operating Engineer - Heavy&Highway**

**03/01/2011**

**JOB DESCRIPTION** Operating Engineer - Heavy&Highway

**DISTRICT 1**

**ENTIRE COUNTIES**

Albany, Broome, Chenango, Clinton, Columbia, Essex, Franklin, Fulton, Greene, Hamilton, Montgomery, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Tioga, Warren, Washington

**PARTIAL COUNTIES**

Dutchess: Defined as north of the northern boundary line of City of Poughkeepsie then due east to Route 115 to Bedelt Road then east along Bedelt Road to VanWagner Road then north along VanWagner Road to Bower Road then east along Bower Road to Rte. 44 east to Route 343 then along Route 343 east to the northern boundary of Town of Dover Plains and east along the northern boundary of Town of Dover Plains to Connecticut.

Herkimer: East of a North/South line through the RailroadStation at Little Falls.

**WAGES**

MASTER MECHANIC

CLASSIFICATION 1A:

Boom Truck (over 5 tons, manufacturers rating), Crane, Cherry Picker (over 5 tons capacity), Derricks (steel erection), Dragline, Overhead Crane (Gantry or Straddle type), Pile Driver, Truck Crane

**CLASSIFICATION A:**

Automated Concrete Spreader (CMI Type), Automatic Fine Grader, Backhoe (Except Tractor Mounted. Rubber Tired), Backhoe Excavator Full Swing (CAT 212 or similar type), Back Filling Machine, Belt Placer (CM1 Type), Blacktop Plant (Automated), Boom truck (5 tons and under), Cableway, Caisson Auger, Central Mix Concrete Plant (Automated), Concrete Curb Machine (Self-Propelled, Slipform), Concrete Pump, Directional Drilling Machine, Dredge, Dual Drum Paver, Excavator (All Purpose Hydraulically Operated, Gradall or Similar), Front End Loader (4 cu. yd. and Over), Head Tower (Sauerman or Equal), Hoist (Two or Three Drum), Holland Loader, Maintenance Engineer, Mine Hoist, Mucking Machine or Mole, Pavement Breaker (SP Wertgen; PB-4 and similar type), Power Grader, Profiler (over 105 H.P.), Quad 9, Quarry Master (or equivalent), Scraper, Shovel, Side Boom, Slip Form Paver (If a second man is needed, he shall be an Oiler), Tractor Drawn Belt-Type Loader, Truck or Trailer Mounted Log Chipper (Self Feeder), Tug Operator (Manned Rented Equipment Excluded), Tunnel Shovel

**CLASSIFICATION B:**

Asphalt Paver, Backhoe (Tractor Mounted, Rubber Tired), Bituminous Recycler Machine, Bituminous Spreader and Mixer, Blacktop Plant (Non-Automated), Blast or Rotary Drill (Truck or Tractor Mounted), Boring Machine, Cage Hoist, Central Mix Plant (Non-Automated) and All Concrete Batching Plants, Cherry Picker (5 tons capacity and under), Concrete Paver (Over 16S), Crawler Drill (Self-contained), Crusher, Diesel Power Unit, Drill Rigs (Tractor Mounted), Front End Loader (Under 4 cu. yd.), Greaseman/Lubrication Engineer, Hi-Pressure Boiler (15 lbs. and over), Hoist (One Drum), Hydro-Axe, Kolman Plant Loader and Similar Type Loaders (If Employer requires another man to clean the screen or to maintain the equipment, he shall be an Oiler), L.C.M. Work Boat Operator, Locomotive, Mixer (for stabilized base self-propelled), Monorail Machine, Plant Engineer, Profiler (105 H.P. and under), Pug Mill, Pump Crete, Ready Mix Concrete Plant, Refrigeration Equipment (for soil stabilization), Road Widener, Roller (all above sub-grade), Sea Mule, Self-contained Ride-on Rock Drill (Excluding Air-Track Type Drill), Skidder, Tractor with Dozer and/or Pusher, Trencher, Tugger Hoist, Vermeer saw (ride on, any size or type), Welder, Winch, Winch Cat

**CLASSIFICATION C:**

A Frame Winch Hoist on Truck, Aggregate Plant, Ballast Regulator (Ride-on), Boiler (used in conjunction with production), Bituminous Heater (self-propelled), Cement and Bin Operator, Hands-Off Equipment (Compressors, Dust Collectors, Generators, Pumps, Welding Machines, Light Plants, Heaters), Concrete Pavement Spreader and Finisher, Concrete Paver or Mixer (16S and under), Concrete Saw (self-propelled), Conveyor, Directional Drill Machine Locator, Drill (Core), Drill (Well), Farm Tractor with accessories, Fine Grade Machine, Fireman, Fork Lift, Form Tamper, Grout Pump, Gunite Machine, Hammers (Hydraulic self-propelled), Hydra-Spiker (Ride-on), Hydraulic Pump (jacking system), Hydro-Blaster (Water), Mulching Machine, Oiler, Parapet Concrete or Pavement Grinder, Post Hole Digger and Post Driver, Power Broom (towed), Power Heaterman, Power Sweeper, Revinius Widener, Roller (Grade and Fill), Scarifier (Ride-on), Shell Winder, Skid steer loader (Bobcat or similar), Span-Saw (Ride-on), Steam Cleaner, Tamper (Ride-on), Tie Extractor (Ride-on), Tie Handler (Ride-on), Tie Inserter (Ride-on), Tie Spacer (Ride-on), Tire Repair, Track Liner (Ride-on), Tractor Tractor (with towed accessories), Vac Truck, Vibratory Compactor, Vibro Tamp, Well Point

\*Note for all above classifications of Operating Engineer - In the event that equipment listed above is operated by robotic control, the classification covering the operation will be the same as if manually operated.

**WAGES per hour**

	07/01/2010	07/01/2011 An Additional
Master Mechanic	\$ 34.15	\$ 2.12**
Class 1A	32.97	2.12**
Class A	32.54	2.12**
Class B	31.63	2.12**
Class C	29.06	2.12**

Additional \$2.00 per hour for All Employees who work a single irregular work shift starting from 5:00 PM to 1:00 AM that is mandated by the Contracting Agency.

Additional \$0.50 per hr for Cranes with Boom length & jib 150ft. and over.

Additional \$1.00 per hr for Cranes with Boom length & jib 200ft. and over.

Additional \$0.50 per hr for Tower Cranes.

Additional \$2.50 per hr. for hazardous waste removal work on State and/or Federally designated waste site which require employees to wear Level C or above forms of personal protection.

(\*\*)To be allocated at a later date

**SUPPLEMENTAL BENEFITS**

Per hour paid

Journeyman \$ 20.55

**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

Note: If the holiday falls on Sunday, it will be celebrated on Monday. If the holiday falls on a Saturday, it will be celebrated on Saturday.

**REGISTERED APPRENTICES**

Wages per hour

1000 hours terms at the following percentage of Journeyman's wage Class B

1st	2nd	3rd	4th
60%	70%	80%	90%

Supplemental Benefits per hour paid

All Terms \$ 16.20

1-106h

**Operating Engineer - Heavy&Highway - Tunnel**

**03/01/2011**

**JOB DESCRIPTION** Operating Engineer - Heavy&Highway - Tunnel

**DISTRICT** 8

**ENTIRE COUNTIES**

Putnam, Westchester

**PARTIAL COUNTIES**

Dutchess: (\*NOTE: This description is in effect up to 08/31/2006). \*South of a West/East line through Dutchess County starting at the Northern Boundary of the City of Poughkeepsie.

(\*\*NOTE: This change takes effect on 09/01/2006)\*\*The part of Dutchess (defined by the northern boundary line of City of Poughkeepsie, then due east to Route 115, then north along Route 115 to Bedell Road, then east along Bedell Road to VanWagner Road, then north along VanWagner Road to Bower Road, then east along Bower Road to Rte. 44, and along Rt. 44 east to route 343, then along route 343 east to the northern boundary of Town of Dover Plains, and east along the northern boundary of Town of Dover Plains to the border line of the State of Connecticut, and bordered on the west by the middle of the Hudson River).

**WAGES**

GROUP I: Boom Truck, Cherry Picker, Clamshell, Crane(Crawler, Truck), Dragline, Rough Terrain Crane.

GROUP I-A: Auger, Auto Grader, Dynahoe & Dual purpose & similar machines, Barber Green Loader-Euclid Loader or similar type machine, Boat Captain, Boring Machine(all types), Bull Dozer-all types, Central Mix Plant Operator, Cherry Picker(Cableway or hydraulic), Chipper-all types, Close Circuit T.V., Compactor with Blade, Concrete Portable Hoist, C.M.I. or similar, Conway or similar Mucking Machine, Crane(Crawler or Truck) dragline, Gradall, Shovel Backhoe, etc. Grader, Derrick(Stone-Steel), Elevator & Cage(materials or passengers), Front End Loaders over 1 1/2 yards, Hoist Single, Double, Triple Drum, Hoist Portable Mobile Unit, Hoist Engineer-Concrete(Crane-Derrick-Mine Hoist), Hoist Engineer-Material, Hydraulic Boom, Letourneau or Tournapull(Scrapers over 20 yards struck), Log Skidder, Moveable Concrete Barrier Transfer & Transport Vehicle, Mucking Machines. Overhead Crane, Paver(concrete), Pulsemeter, Push Button(Buzz Box)Elevator, Raise Boring Machine, Road Mix Machines. Robot Hammer(Brock or similar), Ross Carrier and similar machines, Shovels(Tunnels), Side Boom, Slip Form Machine, Spreader(Asphalt), Scoopmobile-Tractor-Shovel over 1 1/2 yards, Trenching Machines, Telephies-Vermeer Concrete Saw Trencher and/or similar, Tractor type demolition equipment, Whirly.

GROUP I-B: Road Paver(Asphalt).

GROUP II-A: Balast Regulators, Compactor Self-propelled, Cow Tracks, Fusion Machine, Rail Anchor Machines, Roller 4 ton and over, Scrapers (20 yard struck and under), Switch Tampers, Vibratory Roller, etc., Welder.

GROUP II-B: Mechanic(outside) all types, Shop Mechanic.

GROUP III: Air Tractor Drill, Asphalt Plant, Batch Plant, Boiler (High Pressure), Concrete Breaker, Concrete Pump, Concrete Spreader, Curb Cutter Machine, Farm Tractor(all types), Finishing Machine(Concrete) Fine Grading Machine, Firemen, Forklift, Forklift(Electric), John Henry Drill or similar, Joy Drill or similar Tractor Drilling Machine, Loader 1 1/2 yards and under, Locomotive(all sizes), Maintenance Engineer, Machine Pulling Sheeps Foot Roller, Material Hopper, Mixer Concrete(21-E & over), Mulching Grass Spreader, Portable Asphalt Plant, Portable Batch Plant, Portable Crusher, Powerhouse Plant, Quarry Master, Roller under 4 ton, Spreading and Fine Grading Machine, Steel Cutting Machine, Stone Crusher, Sweeper, Turbo Jet Burner or similar, Well Drilling Machine, Winch Truck "A' Frame.

GROUP IV-A: Service Man(Fuel Truck), Service Man(Grease Truck).

GROUP IV-B: Bending Machine, Compressor-Compressor Plant-Paint, Compressor-Steel Erection, Compressor Truck Mounted(2-6), Conveyor Belt Machine, Dust Collector, Heater(all types), Lighting Unit(portable & generator), Mixer Concrete under 21-E, Pilot/Assistant Engineer/2 seated, Pumps-Pump Station-Water-Sewer-Gypsum-Plaster, etc., Pump Truck(Sewer Jet or similar), Roller Motorized(Walk behind), Steam Jenny, Stock Room Attendant, Syphon Pump-Air-Stream, Tar Joint Machine, Vibrator(1 to 5), Welding Machine, Welders Helper.

GROUP V-A: Engineer(Pile Driver), Engineer(all Tower Cranes, all Climbing Cranes & all cranes of 100 ton capacity or greater), Helicopter Hoist Operator, Helicopter Pilot, Helicopter Signalman, Hoist Engineer(Steel-Sub Structure), Engineer-Pile Driver, Jersey-Spreader, Pavement breaker(Air Ram), Master Mechanic, Asst. Master Mechanic, Post Hole Digger, Welder-Certified.

GROUP V-B: Concrete Saw, Oiler, Utility Man.



WAGES: (per hour)

07/01/2010

GROUP I	\$49.99
GROUP I-A	44.14
GROUP I-B	45.70
GROUP II-A	42.29
GROUP II-B	43.60
GROUP III	41.56
GROUP IV-A	37.83
GROUP IV-B	32.56
GROUP V-A	
Engineer-Pile Driver	53.90
Engineer-Cranes	56.55
Helicopter Pilot	50.52
Helicopter Signalman	42.09
Helicopter Hoist Opr	45.26
Hoist Engineer	50.52
Jersey Spreader,	42.47
Pavement Breaker(Air Ram),	
Post Hole Digger	42.47
Master Mechanic	46.70
Asst. Master Mechanic	
Welder-Certified	
GROUP V-B	
Concrete Saw	35.40
Oiler	30.54
Utility Man	31.02

An additional 20% to wage when required to wear protective equipment on hazardous/toxic waste projects. Operators required to use two buckets pouring concrete on other than road pavement shall receive \$0.50 per hour over scale. Engineers operating cranes with booms 100 feet but less than 149 feet in length will be paid an additional \$2.00 per hour. Engineers operating cranes with booms 149 feet or over in length will be paid an additional \$3.00 per hour. Operators of shovels with a capacity over (4) cubic yards shall be paid an additional \$1.00 per hour. Operators of loaders with a capacity over (5) cubic yards shall be paid an additional \$0.50 per hour.

**SUPPLEMENTAL BENEFITS**

(per hour)

Journeyman:	07/01/2010	
	\$ 16.02	all hours paid.
	+ 7.65	1st 40 hours worked
	+ .70	for all hours worked.

**OVERTIME PAY**

See (D, O, \*U, V) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6, 7, 8, 11, 12) on HOLIDAY PAGE

Overtime: See (5, 6, 7, 8, 11, 12) on HOLIDAY PAGE

\* Note: For Holiday codes 5 & 6, code U applies.

Note: If employees are required to work on Easter Sunday, they shall be paid at the rate of triple time.

**REGISTERED APPRENTICES**

(1)year terms at the following rates.

07/01/2010

1st year Apprentice  
50% of above rate  
20.78 per hr.

2nd year Apprentice  
60% of above rate  
24.93 per hr.

3rd year Apprentice  
70% of above rate  
29.09 per hr.

4th year Apprentice  
 80% of above rate  
 33.24 per hr.

Supplemental Benefits per hour:

Apprentices:

07/01/2010  
 \$ 16.02all hours paid.  
 +.70 for all hours worked.

8-137Tun

**Operating Engineer - Marine Construction**

**03/01/2011**

**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	07/01/2010
CLASS A	
Operator, Leverman, Lead Dredgeman	\$ 32.89
CLASS A1	To Conform to Operating Engineer
Dozer, Front Loader Operator	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	\$ 28.49
Certified Welder, Boat Operator(licensed)	\$ 26.84
CLASS C	
Drag Barge Operator, Steward, Mate, Assistant Fill Placer, Welder (please add)	\$ 26.14  \$ 0.06
Boat Operator	\$ 25.29
CLASS D	
Shoreman, Deckhand, Rodman, Scowman, Cook, Messman, Porter/Janitor	\$ 21.09

Oiler(please add) \$ 0.09

**SUPPLEMENTAL BENEFITS**

Per Hour:

THE FOLLOWING SUPPLEMENTAL BENEFITS APPLY TO ALL CATEGORIES

07/01/2010

All Classes A & B \$ 8.05 plus  
 7% of straight  
 time wage  
 (overtime hours add) \$ 0.63

All Class C \$ 7.75 plus  
 7% of straight  
 time wage  
 (overtime hours add) \$ 0.48

All Class D \$ 7.45 plus  
 7% of straight  
 time wage  
 (overtime hours add) \$ 0.23

**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

**Operating Engineer - Survey Crew**

**03/01/2011**

**JOB DESCRIPTION** Operating Engineer - Survey Crew

**DISTRICT 6**

**ENTIRE COUNTIES**

Albany, Allegany, Broome, Cayuga, Chemung, Chenango, Clinton, Columbia, Cortland, Essex, Franklin, Fulton, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Oneida, Onondaga, Ontario, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Tioga, Tompkins, Warren, Washington, Wayne, Yates

**PARTIAL COUNTIES**

Dutchess: : The Northern portion of the county from the Northern boundry line of the City of Poughkeepsie North.  
 Genesee: Only that portion of the county that lies east of a line down the center of Route 98 to include all area that lies within the City of Batavia

**WAGES**

Per hour:

SURVEY CLASSIFICATIONS: Party Chief- One who directs a survey party. Instrument person- One who runs the instrument and assists the Party Chief. Rod person- One who holds the rods and, in general, assists the survey party.

	07/01/2010	06/01/2011	06/01/2012
Survey Rates:			
Party Chief	\$ 30.87	\$ 31.62	\$ 32.62
Instrument/Rod person	28.10	28.85	29.85

Additional \$3.00 per hr. for work in a Tunnel.  
 Additional \$2.50 per hr. for EPA or DEC certified toxic or hazardous waste work

**SUPPLEMENTAL BENEFITS**

Per hour worked:

Journeyman \$ 19.25 \$ 20.50 \$ 21.75

**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6) on HOLIDAY PAGE  
 Overtime: See (5, 6) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

WAGES: (1 yr. or 1000 hrs.) terms at the following wage rates.

1st year 60%	\$ 16.86	\$ 17.31	\$ 17.91
2nd year 70%	19.67	20.19	20.89
3rd year 80%	22.48	23.08	23.88

SUPPLEMENTAL BENEFITS:	\$ 19.25	\$ 20.50	\$ 21.75
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6-545 D.H.H.

**Operating Engineer - Survey Crew - Consulting Engineer** **03/01/2011**

**JOB DESCRIPTION** Operating Engineer - Survey Crew - Consulting Engineer **DISTRICT 6**

**ENTIRE COUNTIES**

Albany, Allegany, Broome, Cayuga, Chemung, Chenango, Clinton, Columbia, Cortland, Essex, Franklin, Fulton, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Tioga, Tompkins, Warren, Washington, Wayne, Yates

**PARTIAL COUNTIES**

Dutchess: The northern portion of the county from the northern boundry line of the City of Poughkeepsie north.  
 Genesee: Entire county except that portion of the county that lies west of a line down the center of Route 98 excluding that area that lies within the City of Batavia.

**WAGES**

Per hour:

Feasibility and preliminary design surveying, line and grade surveying for inspection or supervision of construction when performed under a Consulting Engineer Agreement.

**SURVEY CLASSIFICATIONS:** Party Chief- One who directs a survey party.

Instrument Man- One who runs the instrument and assists the Party Chief.

Rodman- One who holds the rods and in general, assists the survey party.

Survey Rates:	06/01/2010	06/01/2011	06/01/2012
Party Chief	\$ 30.87	\$ 31.62	\$ 32.62
Instrument/Rodperson	28.10	28.85	29.85

Additional \$3.00 per hr. for work in a Tunnel.

Additional \$2.50 per hr. for EPA or DEC certified toxic or hazardous waste work

**SUPPLEMENTAL BENEFITS**

Per hour worked:	\$ 19.25	\$ 20.50	\$ 21.75
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**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

6-545 DCE

**Painter** **03/01/2011**

**JOB DESCRIPTION** Painter **DISTRICT 1**

**ENTIRE COUNTIES**

Columbia, Dutchess, Greene, Orange, Sullivan, Ulster

**WAGES**

Per hour	07/01/2010	05/01/2011 An Additional	05/01/2012 An Additional
Brush/Paper Hanger	\$ 27.39	\$ 2.25**	\$ 2.25**
Dry Wall Finisher	27.39	2.25**	2.25**
Lead Abatement	27.39	2.25**	2.25**
Sandblaster-Painter	27.39	2.25**	2.25**

Spray Rate	28.39	2.25**	2.25**
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(\*\*) To be allocated at a later date

See Bridge Painting rates for the following work:

Structural Steel (defined as any steel where a man works without the support of solid scaffolding or mechanical lifts), all work performed on tanks (100,000 gallons or over twenty feet high), ALL BRIDGES, towers, smoke stacks, flag poles. Rate shall apply to all of said areas from the ground up.

**SUPPLEMENTAL BENEFITS**

Per hour worked

Journeyman	\$ 16.39
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**OVERTIME PAY**

See (B, E, E2, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wages per hour

Six (6) month terms at the following percentage of Journeyman's wage

1st	2nd	3rd	4th	5th	6th
40%	50%	60%	70%	80%	90%

Supplemental Benefits per hour worked

1st term	\$ 7.49
All others	16.39

1-155

**Painter - Bridge & Structural Steel**

**03/01/2011**

**JOB DESCRIPTION** Painter - Bridge & Structural Steel

**DISTRICT 9**

**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) 07/01/2010 10/01/2010

**STEEL:**

Bridge Painting	\$ 45.50	\$ 46.25
Power Tool/Spray	\$ 51.50	\$ 52.25

Shift Work: Where project specifications and/or contract provide for night work outside the regular hours of work, and said night work is performed on a second shift, which is separate from the first crew, the night shift employees shall be paid an additional 10% of the regular wage up to seven (7) hours, after which they shall be paid at time and one half the regular wage. If only a night shift is employed, the employees shall be paid at time and one half.

Note: 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:

	07/01/2010	10/01/2010
Journeyworker	\$ 29.90*	\$ 31.04*
	\$ 29.90**	\$ 31.04**
Hourly Rate after 40 hours from May 1st to Nov. 15th	\$6.00 only	\$6.75 only
Hourly Rate after 50 hours from Nov. 16th to April 30th	\$6.00 only	\$6.75 only

\*For the period of May 1st to November 15th:  
 This rate shall be paid up to maximum of forty (40) hours worked per week. For all hours exceeding 40, the hourly rate shall drop to the hourly rate shown above by date.  
 EXCEPT 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.

\*\*For the period of November 16th to April 30th:  
 This rate shall be paid up to a maximum of fifty (50) hours worked per week. For all hours exceeding 50, the hourly rate shall drop to the hourly rate shown above by date.

**OVERTIME PAY**

See (A, F, R) on OVERTIME PAGE

\*Note: When calculating overtime pay for the Power Tool/ Spray classification, add Six dollars to the hourly overtime rate calculated for the "Bridge Painting" classification.

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (4, 6) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

(wage per hour Worked):

(1) year terms at the following percentage of Journeyworkers wage.

Apprentices:	1st	2nd	3rd
07/01/2010	40%	60%	80%

Supplemental Benefits:

1st Term: Same percentage as used for wage

2nd and 3rd term: Same percentage as used for wage

9-DC-9/806/155-BrSS

**Painter - Line Striping**

**03/01/2011**

**JOB DESCRIPTION** Painter - Line Striping

**DISTRICT 9**

**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):	07/01/2010
Striping-Machine Operator*	\$ 25.53
Linerman Thermoplastic	\$ 30.79

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

**SUPPLEMENTAL BENEFITS**

Per hour paid:	07/01/2010
Journeyworker:	\$ 9.97 + 7% of wage

**OVERTIME PAY**

See (B, E, P, 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

9-8A/28A-LS

**Painter - Metal Polisher**

**03/01/2011**

**JOB DESCRIPTION** Painter - Metal Polisher

**DISTRICT 9**

**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**

07/01/2010

Metal Polisher \$ 25.60\*

\*Note: All workers shall be paid an additional premium in an amount equal to twenty (20%) percent of their basic straight time rate of pay for all time worked on hanging scaffolds and on standing scaffolds while working more than 34 feet off the ground. Such premium are to be paid on top of their straight time or overtime, whichever is applicable. This also applies to employees erecting scaffolding.

**SUPPLEMENTAL BENEFITS**

Per Hour: 07/01/2010

Journeyworker: \$ 11.12

**OVERTIME PAY**

See (B, E, Q, 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**

55% of Basic Polisher Rate

9-8A/28A-MP

**Plumber**

**03/01/2011**

**JOB DESCRIPTION** Plumber

**DISTRICT 8**

**ENTIRE COUNTIES**

Dutchess

**PARTIAL COUNTIES**

Delaware: Only the Townships of Middletown and Roxbury.  
Ulster: Entire county (including Walkkill and Shawangunk Prisons in Town of Shawangunk) EXCEPT for remainder of Town of Shawangunk, and Towns of Plattekill, Marlboro, and Wawarsing.

**WAGES**

(per hour)

07/01/2010

Plumber & Steamfitter \$ 41.66

**SUPPLEMENTAL BENEFITS**

Per hour:

Journeyman: \$ 23.51 per hour paid  
+ 2.29 per hour worked\*\*

\*\*Not Subject to Overtime

**OVERTIME PAY**

See (B, \*E, Q, V) on OVERTIME PAGE

\* Note: Time & 1/2 for 1st. 8 on Sat.- all additional hours double time.

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
Overtime: See (5, 6, 8, 16, 25) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

(1)year terms at the following rates.

1st year. \$ 15.68  
2nd year. 21.85  
3rd year. 25.40  
4th year. 30.69  
5th year. 35.52

Supplemental Benefits per hour:

Apprentices

" 1st yr.	\$ 10.42 per hour paid + 0.98 per hour worked
" 2nd yr.	13.013 per hour paid + 1.10 per hour worked
" 3rd yr.	14.60 per hour paid + 1.35 per hour worked
" 4th yr.	16.68 per hour paid + 1.98 per hour worked
" 5th yr.	18.30 per hour paid + 1.98 per hour worked

8-21.2-SF

**Plumber - HVAC / Service**

**03/01/2011**

**JOB DESCRIPTION** Plumber - HVAC / Service

**DISTRICT 8**

**ENTIRE COUNTIES**

Dutchess, Putnam, Westchester

**PARTIAL COUNTIES**

Delaware: Only the townships of Middletown and Roxbury

Ulster: Entire County(including Wallkill and Shawangunk Prisons) except for remainder of Town of Shawangunk and Towns of Plattekill, Marlboro, and Wawarsing.

**WAGES**

Per hour:	07/01/2010	11/01/2010	01/01/2011
HVAC Service	\$ 34.78		\$36.06
Jobbing & Alteration*	\$ 32.60	\$ 32.56	

\*Repairs, replacements and alteration work is any repair or replacement of a present plumbing system that does not change existing roughing or water supply lines.

**SUPPLEMENTAL BENEFITS**

Per hour worked:

	07/01/2010	11/01/2010	1/01/2011
Journeyman HVAC Service	\$ 13.80 per hour paid + 2.29 per hour worked		\$ 16.00 per hour paid + .98 per hour worked
Journeyman Jobbing Alterations	\$ 14.85 per hour paid + .83 per hour worked	\$ 19.57 per hour paid + 2.73 per hour worked	

**OVERTIME PAY**

See (B, \*E, Q, V) on OVERTIME PAGE

Note: Time and one half for the first eight hours on Saturdays.

Additional hours on Saturday to be paid at double time.

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6, 8, 16, 25) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

HVAC SERVICE

REGISTERED APPRENTICES

(1)year terms at the following wages.

	1st yr.	2nd yr.	3rd yr.	4th yr.	5th yr.
07/01/2010	\$ 16.60	\$ 19.18	\$ 24.09	\$ 29.32	31.31
01/01/2011	\$ 17.07	\$ 19.80	\$ 24.84	\$ 30.31	32.44



Supplemental Benefits per hour worked:

Apprentices	07/01/2011	01/01/2011
1st term	\$ 13.67 per hour paid + 0.83 per hour worked	\$ 13.67 per hour paid + .98 per hour worked
2nd term	\$ 13.87 per hour paid + 0.83 per hour worked	\$ 14.49 per hour paid + .98 per hour worked
3rd term	\$ 14.17 per hour paid + 0.83 per hour worked	\$ 14.91 per hour paid + .98 per hour worked
4th term	\$ 14.47 per hour paid + 0.83 per hour worked	\$ 15.35 per hour paid + .98 per hour worked
5th term	\$ 14.67 per hour paid + 0.83 per hour worked	\$ 15.67 per hour paid + .98 per hour worked

**JOBGING & ALTERATIONS**

**REGISTERED APPRENTICES**

(1)year terms at the following wages.

	1st yr.	2nd yr.	3rd yr.	4th yr.	5th yr.
07/01/2010	\$ 13.14	\$ 17.48	\$ 20.88	\$ 24.11	\$ 27.92
11/01/2010	\$ 15.98	\$ 17.64	\$ 18.70	\$ 26.40	\$ 27.76

Supplemental Benefits per hour worked:

Apprentices	07/01/2010	11/01/2010
1st term	\$ 8.16 per hour paid + 0.43 per hour worked	\$ 6.14 per hour paid + .60 per hour worked
2nd term	\$ 10.66 per hour paid + 0.79 per hour worked	\$ 7.06 per hour paid + .93 per hour worked
3rd term	\$ 11.76 per hour paid + 0.89 per hour worked	\$ 10.17 per hour paid + 1.05 per hour worked
4th term	\$ 14.20 per hour paid + 1.25 per hour worked	\$ 13.38 per hour paid + 1.46 per hour worked
5th term	\$ 15.19 per hour paid + 1.60 per hour worked	\$ 14.36 per hour paid + 1.90 per hour worked

NOTE: This listing is the combined, updated information for 21.1-SF/Re/AC and 21.2-SF/Re/AC, as of 8/1/09.

8-21.1&2-SF/Re/AC

**Roofer** **03/01/2011**

**JOB DESCRIPTION** Roofer

**DISTRICT** 9

**ENTIRE COUNTIES**

Bronx, Dutchess, Kings, New York, Orange, Putnam, Queens, Richmond, Rockland, Sullivan, Ulster, Westchester

**WAGES**

Per Hour: 07/01/2010

Roofer/Waterproofer \$ 37.50

**SUPPLEMENTAL BENEFITS**

Journeyworker \$ 27.37

**OVERTIME PAY**

See (B, H) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6, 13, 25) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

( 1 ) year terms at the following percentage of Journeyworkers hourly wage.

1st	2nd	3rd	4th
35%	50%	60%	75%

Supplemental Benefits:

Per hour paid at the following term percentage of Journeyworkers.

Apprentice:

1st	2nd	3rd	4th
\$3.87	\$13.86	\$16.50	\$20.50

9-8R

**Sheetmetal Worker**

**03/01/2011**

**JOB DESCRIPTION** Sheetmetal Worker

**DISTRICT 8**

**ENTIRE COUNTIES**

Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster, Westchester

**WAGES**

SheetMetal Worker 07/01/2010  
 \$ 40.42

**SUPPLEMENTAL BENEFITS**

Journeyman \$ 29.64

**OVERTIME PAY**

OVERTIME:.. See ( B, E, Q, ) on OVERTIME PAGE.

\*Note: For Sundays or Holidays worked, HOURLY WAGE is double the total of the hourly wage plus the hourly benefit paid all in wages. (Benefits are included in the wages).

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6, 8, 13, 16, 23) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

1st	2nd	3rd	4th	5th	6th	7th	8th
\$14.79	\$16.76	\$ 18.67	\$ 20.58	\$ 22.39	\$ 24.29	\$ 26.19	\$ 28.53

Supplemental Benefits per hour:

Apprentices

1st term	\$ 13.27
2nd term	14.81
3rd term	16.40
4th term	17.98
5th term	19.67
6th term	21.27
7th term	22.87
8th term	24.03

8-38

**Sprinkler Fitter**

**03/01/2011**

**JOB DESCRIPTION** Sprinkler Fitter

**DISTRICT 1**

**ENTIRE COUNTIES**

Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster, Westchester

**WAGES**

Per hour 07/01/2010

Sprinkler \$ 39.40

Fitter

**SUPPLEMENTAL BENEFITS**

Per hour worked

Journeyman \$ 18.85

**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

Note: When a holiday falls on Sunday, the following Monday shall be considered a holiday and all work performed on either day shall be at the double time rate. When a holiday falls on Saturday, the preceding Friday shall be considered a holiday and all work performed on either day shall be at the double time rate.

**REGISTERED APPRENTICES**

Wages per hour

One Half Year terms at the following percentage of Journeyman's wage

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
50%	50%	55%	60%	65%	70%	75%	80%	85%	90%

Supplemental Benefits per hour worked

07/01/2010

1st & 2nd terms	\$ 8.41
3rd & 4th terms	\$ 13.35
All others	\$ 18.85

1-669.2

**Survey Crew Consulting**

**03/01/2011**

**JOB DESCRIPTION** Survey Crew Consulting

**DISTRICT 9**

**ENTIRE COUNTIES**

Bronx, Kings, Nassau, New York, Putnam, Queens, Richmond, Suffolk, Westchester

**PARTIAL COUNTIES**

Dutchess: Only the portion south of the north city line in Poughkeepsie.

**WAGES**

Feasibility and preliminary design surveying, line and grade surveying for inspection or supervision of construction when performed under a Consulting Engineer agreement.

Categories cover GPS & underground surveying.

WAGES: (per hour)

07/01/2010

Survey Rates:

Party Chief.....	\$ 33.70
Instrument Man..	\$ 28.38
Rodman.....	\$ 25.02

**SUPPLEMENTAL BENEFITS**

Per Hour 07/01/2010

All Crew Members: \$ 11.70

**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

**Teamster - Building / Heavy&Highway**

**03/01/2011**

**JOB DESCRIPTION** Teamster - Building / Heavy&Highway

**DISTRICT** 8

**ENTIRE COUNTIES**

Dutchess, Orange, Rockland, Sullivan, Ulster

**WAGES**

GROUP 1: LeTourneau Tractors, Double Barrel Euclids, Athney Wagons and similar equipment (except when hooked to scrapers), Low Beds, I-Beam and Pole Trailers, Tire Trucks and Tractor and Trailers with 5 axles and over, Articulated Back Dumps and Road Oil Distributors.

GROUP 1A: Drivers on detachable Gooseneck Low Bed Trailers rated over 35 tons.

GROUP 2: All equipment 25 yards and up to and including 30 yard bodies and cable Dump Trailers and Powder and Dynamite Trucks.

GROUP 3: All Equipment up to and including 24-yard bodies, Mixer Trucks, Dump Crete Trucks and similar types of equipment, Fuel Trucks and Batch Trucks and all other Tractor Trailers.

GROUP 4: Tri-Axles, Ten Wheelers, Grease Trucks, Tillerman, Pattern Trucks, Intinuator Trucks.

GROUP 5: Straight Trucks.

GROUP 6: Pick-up Trucks for hauling materials, parts, and Escort Man over-the-road.

WAGES: (per hour)

07/01/2010

GROUP 1	\$ 29.70
GROUP 1A	30.84
GROUP 2	29.14
GROUP 3	28.92
GROUP 4	28.81
GROUP 5	28.69
GROUP 6	28.69

NOTE: additional 20% premium above the hourly wage for hazardous and toxic waste removal. This applies to all groups.

Shift Work: A shift premium of 10% on 2ND Shift and 15% on 3RD Shift will be paid for off-shift or irregular shift work when mandated by the NYS DOT or other governmental agency contracts.

**SUPPLEMENTAL BENEFITS**

Per hour paid:

First 40 hours	\$ 23.95
Over 40 hours	18.65

**OVERTIME PAY**

OVERTIME:... See ( B, E, P,T\*,U\*\*) on OVERTIME PAGE.

**HOLIDAY**

HOLIDAY:

Paid:..... See ( 5, 6, 13, 15, 25 ) on HOLIDAY PAGE.

Overtime:.. See ( 5, 6, 13, 15, 25 ) on HOLIDAY PAGE.

NOTE: Holidays worked Monday to Friday receive straight time wage for working, plus Holiday Pay.

\*Holidays worked on Saturday, code T applies.

\*\*Holidays worked on Sunday, code U applies.

8-445B/HH

**Welder**

**03/01/2011**

**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 07/01/2010

Welder (To be paid the same rate of the mechanic performing the work)

**OVERTIME PAY**

**HOLIDAY**

1-As Per Trade

**Orange County General Construction**

**Asbestos Worker**

**03/01/2011**

**JOB DESCRIPTION** Asbestos Worker

**DISTRICT** 9

**ENTIRE COUNTIES**

Columbia, Delaware, Dutchess, Greene, Orange, Putnam, Rockland, Sullivan, Ulster

**WAGES**

Per hour

7/01/2010-  
 11/30/2010

Asbestos Worker:

Removal & Hazardous

Abatement Only

\$ 36.30 plus additional \$3.00\*

Only for the removal of insulation materials from mechanical systems which are not going to be scrapped.

\* Increase to be allocated at a later date.

**SUPPLEMENTAL BENEFITS**

Per hour paid

Journeyman

\$ 14.00

**OVERTIME PAY**

See (B, E, \*Q, \*\*T, V) on OVERTIME PAGE

**HOLIDAY**

Paid:

See (1) on HOLIDAY PAGE

Overtime:

See (2, 4, 6, 25) on HOLIDAY PAGE

\* Code Q applies to 4,6,& 25.

\*\* Code T applies to 2.

9-12a - Removal Only

**Boilermaker**

**03/01/2011**

**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:

07/01/2010-  
 12/31/2010

01/01/2011

Boilermaker

\$ 46.66

\$ 47.32

Repairs & Renovation

\$ 46.66

\$ 47.32

**SUPPLEMENTAL BENEFITS**

Per Hour:

07/01/2010-  
 12/31/2010

01/01/2011

BoilerMaker

39.1% of Hourly  
 Wage Paid +  
 \$ 16.97

39.1% of Hourly  
 Wage Paid +  
 \$ 19.33

Repairs & Renovation\*

NOTE: "Hourly Wage Paid" shall include any and all premium(s) pay.

\*Same as Boilermaker (Includes replacement of parts and repairs & renovation of an existing unit).

**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.

\*\*Boilermaker gets 4 times the hourly wage rate for working on Labor Day.

\*\*\*Repairs & Renovation see (B,E,Q) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

(1/2) Year Terms at the following percentage of Boilermaker's Wage

1st	2nd	3rd	4th	5th	6th	7th	8th
65%	65%	70%	75%	80%	85%	90%	95%

Supplemental Benefits Per Hour:

	07/01/2010- 12/31/2010	01/01/2011
Boilermaker Apprentice(s)	39.1% of Hourly Wage Paid + \$ 16.97	39.1% of Hourly Wage Paid + \$ 19.33
Repairs & Renovation* Apprentice(s)	39.1% of Hourly Wage Paid + \$ 16.97	39.1 of Hourly Wage Paid + \$ 19.33

NOTE: "Hourly Wage Paid" shall include any and all premium(s) pay.

\*Includes replacement of parts and repairs & renovation of an existing unit.

4-5

**Carpenter**

**03/01/2011**

**JOB DESCRIPTION** Carpenter

**DISTRICT 9**

**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 to the Atlantic Ocean.

**WAGES**

Per hour:	07/01/2010	10/17/2010 Additional*
Core Drilling:		
Driller	\$ 33.25	\$ 2.21*
Assistant Driller	26.95	1.94*

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.

\* May be allocated between wages and benefits.

**SUPPLEMENTAL BENEFITS**

Per hour paid:

Driller	\$ 17.52	\$ 17.52
Assistant	17.52	17.52

**OVERTIME PAY**

OVERTIME: See (B,E,K\*,P,R\*\*) on OVERTIME PAGE.

**HOLIDAY**

HOLIDAY:

Paid: See (5,6) on HOLIDAY PAGE.

Overtime: \* See (5,6) on HOLIDAY PAGE.  
\*\* See (8,10,11,13) on HOLIDAY PAGE.

Assistant: One (1) year increments at the following percentage of Assistant wages. This is not an apprenticeship for Driller.

1st Year	2nd Year	3rd Year	4th Year
70%	80%	90%	100%

9-1536-CoreDriller

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**Carpenter** **03/01/2011**

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**JOB DESCRIPTION** Carpenter **DISTRICT 9**

**ENTIRE COUNTIES**  
Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Westchester

**WAGES**  
Per hour: 07/01/2010

Marine Construction:

Marine Diver	\$ 56.32
M.D.Tender	40.17

**SUPPLEMENTAL BENEFITS**  
Per hour paid:

Journeyman \$ 40.86

**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 (5,6,10,11,13,16,18,19)

Overtime: See (5,6,10,11,13,16,18,19) on HOLIDAY PAGE.

**REGISTERED APPRENTICES**  
Wager per hour is Percentage of Journeymans Wage

(1) year terms:

1st	2nd	3rd	4th
40%	50%	65%	80%

Supplemental benefits per hour:

Apprentices \$ 26.97

9-1456MC

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**Carpenter** **03/01/2011**

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**JOB DESCRIPTION** Carpenter **DISTRICT 9**

**ENTIRE COUNTIES**  
Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Westchester

**WAGES**  
Per hour: 07/01/2010

Carpet/Resilient  
Floor Coverer \$ 44.02 +Additional \$ 1.32\*

\*Increase to be allocated at a later date



**SUPPLEMENTAL BENEFITS**

Per hour paid:

Floor Coverer \$ 38.58

**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 Percentage of Journeyworkers Wage

(1) year terms:

1st.	2nd.	3rd.	4th.
40%	50%	65%	80%

Supplemental benefits per hour:

Apprentices \$ 25.83

9-2287

**Carpenter**

**03/01/2011**

**JOB DESCRIPTION** Carpenter

**DISTRICT 9**

**ENTIRE COUNTIES**

Dutchess, Orange

**WAGES**

Per hour: 07/01/2010

Building:

Millwright \$ 35.11

**SUPPLEMENTAL BENEFITS**

Per hour paid:

Journeyman \$ 32.80

**OVERTIME PAY**

See (B, E, E2, Q) on OVERTIME PAGE

**HOLIDAY**

HOLIDAY:

Paid: See (18,19) on HOLIDAY PAGE.

Paid: See (5,6,11,13,16,18,19,25) for 1st & 2nd yr.Apprentices

Overtime: See (5,6,11,13,16,18,19,25) on HOLIDAY PAGE.

**REGISTERED APPRENTICES**

Wages per hour:

(1) year terms at the following percentage of Journeyman's wage.

1st	2nd	3rd	4th
55%	65%	75%	95%

Supplemental benefits per hour:

APPRENTICES:	1st	2nd	3rd	4th
	\$ 22.49	24.46	26.92	30.38

9-740.2

**Carpenter - Building / Heavy&Highway**

**03/01/2011**

**JOB DESCRIPTION** Carpenter - Building / Heavy&Highway

**DISTRICT 8**

**ENTIRE COUNTIES**

Dutchess, Orange, Sullivan, Ulster

**WAGES**

WAGES:(per hour)

07/01/2010

Carpenter	\$ 31.86
Carpenter-Floor Coverer*	31.86
Dockbuilder/Piledriver	31.86
Diver(WET)	50.00
Diver(DRY)	30.00

\* Note: Rate DOES NOT apply in Orange or Dutchess County.

On projects for removal and/or abatement of asbestos or any toxic or hazardous material and it is required by the employer or mandated by NYS or Federal Regulation to wear protective equipment an additional \$2.00 per hour above their appropriate rate for all classifications including apprentices. For work on smokestacks, silos, or steeples more than fifty (50) feet high, an additional \$2.00 per hour, payable from the ground up.

**SUPPLEMENTAL BENEFITS**

(per hour paid)

Journeyman \$ 20.76

**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

BUILDING:

Paid: See ( 1 ) on HOLIDAY PAGE.

Overtime: See ( 5, 6 ) on HOLIDAY PAGE.

HEAVY/HIGHWAY:

Paid: See ( 5, 6, 16 ) on HOLIDAY PAGE including benefits.

Overtime: See ( 5, 6, 16 ) on HOLIDAY PAGE.

**REGISTERED APPRENTICES**

1 Year terms at the following rates.

1st	2nd	3rd	4th
\$ 16.13	\$ 18.44	\$ 22.35	\$ 26.08

Supplemental Benefits per hour worked:

Apprentices	
1st term	\$ 9.86
2nd term	14.61
3rd term	18.66
4th term	19.17

8-19B/H&H

**Electrician**

**03/01/2011**

**JOB DESCRIPTION** Electrician

**DISTRICT 8**

**ENTIRE COUNTIES**

Orange, Putnam, Rockland

**PARTIAL COUNTIES**

Dutchess: Towns of Fishkill, East Fishkill, and Beacon.

**WAGES**

Per hour:

07/01/2010

Electrician Wireman/Technician \$ 41.00\*\*

\*SHIFT DIFFERENTIAL: On Public Work in New York State when shift work is mandated either in the job specifications or by the contracting agency, the following rates apply:

Shift worked between 4:30pm & 12:30am	\$ 47.75*
Shift worked between 12:30am & 8:30am	\$ 53.25*

\*\*On jobs where employees are required to work from boatswain chairs, swinging scaffolds, etc., forty (40) feet or more above the ground, or under compressed air, using Scottair packs, gas masks or in shafts or tunnels, they shall receive an additional \$2.00 per hour above the regular straight time rate.

**SUPPLEMENTAL BENEFITS**

Per hour worked:

07/01/2010

Journeyman

\$ 20.97 plus  
 6% of wage

**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6, 13, 15, 16, 25) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wages:

(6)month terms at the following percentage of Journeyman's wage.\*

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
30%	35%	40%	45%	50%	55%	65%	70%	75%	85%

\* Denotes average Journeyman Wireman rate of all wage zones

Supplemental Benefits per hour worked:

07/01/2010

1st & 2nd term	\$ 6.97	plus 6% of wage
3rd & 4th term	8.92	plus 6% of wage
5th & 6th term	10.87	plus 6% of wage
7th & 8th term	13.82	plus 6% of wage
9th & 10th term	16.72	plus 6% of wage

8-363/1

**Elevator Constructor**

**03/01/2011**

**JOB DESCRIPTION** Elevator Constructor

**DISTRICT 1**

**ENTIRE COUNTIES**

Dutchess, Orange, Putnam, Sullivan, Ulster

**PARTIAL COUNTIES**

Columbia: Only the Townships of Ancram, Clermont, Copake, Gallatin, Germantown, Livingston and Taghkanic.

Delaware: Towns of Andes, Bovina, Colchester, Davenport, Delhi, Harpersfield, Hemdon, Kortright, Meredith, Middletown, Roxbury, Hancock & Stamford

Greene: The Townships of Ashland, Catskill, Halcott, Hunter, Jewett, Lexington, Rattsville & Windham

Rockland: Only the Township of Stony Point.

Westchester: Only the Townships of Bedford, Lewisboro, Cortland, Mt. Kisco, North Salem, Pound Ridge, Somers and Yorktown.

**WAGES**

Per Hour	07/01/2010	01/01/2011
Mechanic	\$ 47.71	\$ 48.96
Helper	70% of Mechanic Wage Rate	70% of Mechanic Wage Rate

(\*\*) To be allocated at a later date

\*\*\*\* IMPORTANT NOTICE - EFFECTIVE 04/01/2009 \*\*\*\*

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 worked

	07/01/2010	01/01/2011
Journeyman/Helper	\$ 20.035*	\$21.785*
	*Plus 6% of wages if less than 5 years service	
	*Plus 8% of wages if more than 5 years service	

**OVERTIME PAY**

See (D, O) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6, 15, 16) on HOLIDAY PAGE

Overtime: See (5, 6, 15, 16) on HOLIDAY PAGE

Note: When a paid holiday falls on Saturday, it shall be observed on Friday. When a paid holiday falls on Sunday, it shall be observed on Monday.

**REGISTERED APPRENTICES**

Wages per hour

1st 6mo	2nd 6mo	2nd yr	3rd yr	4th yr
50 %	55 %	65 %	70 %	80 %

Supplemental Benefits per hour worked

Apprentices	07/01/2010	01/01/2011
	\$ 20.035	\$ 21.785
	+6%	+6%
	of wage	of wage

1-138

**Glazier**

**03/01/2011**

**JOB DESCRIPTION** Glazier

**DISTRICT 9**

**ENTIRE COUNTIES**

Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Sullivan, Ulster, Westchester

**WAGES**

Per hour: 07/01/2010

Glazier \$ 46.60

Scaffolding \$ 47.60

Repair & Maintenance:

Glazier \$ 26.35

\*Increase to be allocated at a later date

Repair & Maintenance- All repair & maintenance work on a particular building, whenever performed, where the total cumulative contract value is under \$100,000.00.

**SUPPLEMENTAL BENEFITS**

Per hour paid:

Journeyworker.... \$ 24.69

Glazier  
 Repair & Maintenance\*\* \$ 14.83

**OVERTIME PAY**

OVERTIME: See (C\*,D\*O) on OVERTIME PAGE.

\* Denotes if an optional 8th hour is required same will be at the regular rate of pay. If 9th hour is worked then both hours or more ( 8th and 9th or more ) will be at the double time rate of pay.

\*\* For Repair & Maintenance see ( B,F, P) on overtime page.

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
Overtime: See (5, 6, 16, 25) on HOLIDAY PAGE

The Following are paid holidays for the Repair & Maintenance Class:

New Years day, Presidents day, Memorial day, Independents day, Labor day, Thanksgiving day, Day after Thanksgiving, and Christmas day.

**REGISTERED APPRENTICES**

Wage per hour:

(1) year terms at the following wage rates.

1st term...	\$ 15.65
2nd term...	\$ 23.33
3rd term...	\$ 27.98
4th term...	\$ 35.03

Supplemental Benefits:  
(Per hour worked)

1st term....	\$ 11.89
2nd term....	\$ 17.33
3rd term....	\$ 19.08
4th term....	\$ 22.59

9-1281 (DC9 NYC)

**Insulator - Heat & Frost**

**03/01/2011**

**JOB DESCRIPTION** Insulator - Heat & Frost

**DISTRICT 8**

**ENTIRE COUNTIES**

Dutchess, Orange, Putnam, Rockland, Westchester

**WAGES**

Per hour: 07/01/2010

Asbestos Worker \$ 44.44

Fire Stop Work\*  
Asbestos Worker \$ 29.49

\* Applies on all exclusive Fire Stop Work (When contract is for Fire Stop work only). No apprentices on these contracts only.

Note: Additional \$0.50 per hour for work 30 feet or more above floor or ground level.

On government mandated shift work of 3 days or more between Monday - Friday, the 2nd shift works 7 1/2 hrs and 3rd shift 7hrs and which shall account for a full 8hr day.  
In addition if the first eight 8hrs start between 10:00am and 5:00am then the wage must include and addition 20%. All hours in excess of 8hrs shall be paid at time and one half.  
On the last working day preceding Christmas and New Years day, workers shall work no later than 12:00 noon and shall receive 8 hrs pay.

**SUPPLEMENTAL BENEFITS**

(per hour paid)  
Journeyman \$ 27.61

Fire Stop Work:  
Journeyman \$ 18.14

**OVERTIME PAY**

OVERTIME: See ( B ,E, Q, T\*, V ) on OVERTIME PAGE.

**HOLIDAY**

HOLIDAY:  
Paid: See ( 1 ) on HOLIDAY PAGE.  
Overtime: See ( 2\*, 4, 6, 16, 25 ) on HOLIDAY PAGE.

\*Note: Labor Day triple time if worked.

**REGISTERED APPRENTICES**

( 1 ) year terms at the following percentage of journeyman's rate.

1st	2nd	3rd	4th
\$27.30	\$29.45	\$31.59	\$35.86

Supplemental Benefits paid per hour paid:

Apprentices:

1st term	\$ 17.05
2nd term	17.62
3rd term	19.47
4th term	22.19

8-91

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**Ironworker** **03/01/2011**

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**JOB DESCRIPTION** Ironworker

**DISTRICT** 8

**ENTIRE COUNTIES**

Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster

**WAGES**

Per hour: 07/01/2010

Structural	\$ 40.15
Reinforcing	40.15
Ornamental	40.15
Chain Link Fence	40.15

Shift Work: any irregular or off shift shall be paid 8 hours for 7 hours work.

**SUPPLEMENTAL BENEFITS**

Per hour paid:  
 Journeyman \$ 28.55

**OVERTIME PAY**

OVERTIME:.....See ( B\* , E\*\* , Q , V ) on OVERTIME PAGE.

\*Note: Double Time after 10 hours Monday thru Friday.

\*\*Note: On Saturdays, double time after 8 hours.

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6, 16) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wages:

(1)year terms at the following wage.

1st	2nd	3rd	4th
\$ 20.08	\$ 24.09	\$ 32.12	\$ 36.14

Supplemental Benefits per hour worked:

1st year	\$ 24.55
2nd year	25.35
3rd year	26.95
4th year	27.75

8-417

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**Laborer - Building** **03/01/2011**

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**JOB DESCRIPTION** Laborer - Building

**DISTRICT 8**

**ENTIRE COUNTIES**

Orange, Sullivan, Ulster

**PARTIAL COUNTIES**

Delaware: Only the Townships of Andes, Bovina, Davenport, Delhi, Franklin, Hamden, Harpersfield, Kortright, Meredith, Middletown, Roxbury, and Stamford.

Greene: Only the Township of Catskill.

**WAGES**

GENERAL LABORER: Flag person, portable generator tender, portable pump tender, pitman and dumpman, temporary heat tender, traffic control, air chipping hammer, acoustic pump, mixer, concrete laborer, demolition, excavation, piping for foundation and building, gunite, general cleanup, grading, backfilling, landscaping, mason tender, jackhammer, pavement breaker, tampers, walk behind roller, pressure blasting, signalperson, buggies, wrecking, asphalt, blaster, chain saw, chipping machine, corrugate pipe, cleaning machine, cutting torch, discharge pipe, drill chuck tender, explosive handler, hydraulic splitter, pipe layer, mega mixer, power brush cutter, pump crete machine, rip rap, Drilling Equipment Only Where a Separate Air Compressor Unit Supplies Power, assembling and placing of gabion baskets.

PREMIUM LABORER: Asbestos abatement work, toxic and hazardous abatement, lead abatement work, environmental work.

WAGES:(per hour)

07/01/2010

General	\$ 29.65
Premium	34.20

These rates will cover all work within five feet of the building foundation line.

Shift Differential: On all Governmental mandated irregular or off shift work, an additional 20% of wage is required.

**SUPPLEMENTAL BENEFITS**

(per hour worked)

Journeyman	\$ 19.70
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**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
Overtime: See (5, 6) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

( 1 ) year terms at the following wage rates.

1st term	\$ 18.00
2nd term	21.54
3rd term	25.08
4th term	28.63

Supplemental Benefits per hour worked:

Apprentices	\$ 14.50
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8-17.BA

**Laborer - Heavy&Highway & Tunnel**

**03/01/2011**

**JOB DESCRIPTION** Laborer - Heavy&Highway & Tunnel

**DISTRICT 8**

**ENTIRE COUNTIES**

Orange, Sullivan, Ulster

**PARTIAL COUNTIES**

Delaware: Only the Townships of Andes, Bovina, Middletown, Roxbury, Franklin, Hamden, Stamford, Delhi, Kortright, Harpersfield, Meredith, and Davenport.

Greene: Only the Township of Catskill.

**WAGES**

CLASS 1: Flagperson.

CLASS 2: General laborer, chuck tender, nipper, powder carrier, magazine tender, concrete men, vibrator men, mason tender, mortar men, traffic control, custodial work, temporary heat, pump men, pit men, dump men, asphalt men, joint setter, signalman, pipe men, riprap, dry stone layers, jack hammer, bush hammer, pavement breaker, gunnite nozzle, nozzle men on mulching & seeding machines all seeding & sod laying, landscape work, walk behind self-prop, powers saws, grinder, groover, walk behind rollers and tampers of all types, burner men, filling and wiring of baskets for gabion walls, chain saw operator, railroad track laborers, power buggy & pumpcrete ops. fireproof sprayer, plaster & acoustic pumps, asbestos, toxic, lead or hazardous materials when protective clothing & equipment is not required, power brush cutter, retention liners, walk behind surface planer, chipping hammer, manhole and catch basin on inlet building, mortar mixer, laser men.  
\*Micropaving and crack sealing.

CLASS 3: Asbestos, toxic, lead or hazardous materials abatement when protective clothing and equipment are required, blaster, Drilling Equipment Only Where a Separate Air Compressor Unit Supplies Power, \*\*asphalt screedman.

CLASS 4: Blaster, all laborers involved in shaft tunnel, caisson, pipejacking, and boring operations.

WAGES:(per hour)

07/01/2010

CLASS 1 \$ 28.40

CLASS 2\* 32.75

CLASS 3 36.65

CLASS 4 39.15

\*NOTE: Micropaving and crack sealing laborers shall receive \$2.00 per hour over the CLASS 2 rate.

\*\*NOTE: asphalt screedman shall receive \$1.00 per hour over class 3 rate

SHIFT DIFFERENTIAL: On all NYS D.O.T. or other Governmental mandated irregular or off shift work, an additional 15% of wage on straight time pay.

**SUPPLEMENTAL BENEFITS**

(per hour paid)

Journeyman \$ 19.15

**OVERTIME PAY**

See (B, E, P, \*S) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6, 13, 15, 25) on HOLIDAY PAGE

Overtime: See (\*1) on HOLIDAY PAGE

\*Note: If Saturday Holiday is worked code S applies.

**REGISTERED APPRENTICES**

(1)year terms at the following wage rates.

1st term \$ 19.19

2nd term 22.86

3rd term 26.53

4th term 30.20

Supplemental Benefits per hour paid:

Apprentices \$ 15.20

8-17.1H/H

**Lineman Electrician**

**03/01/2011**

**JOB DESCRIPTION** Lineman Electrician

**DISTRICT** 6

**ENTIRE COUNTIES**

Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

**WAGES**

Per hour:



Includes Teledata Work within Ten feet of High Voltage Transmission Lines

	07/01/2010	05/02/2011	05/07/2012
Lineman/Tech./Welder	\$ 43.82	\$ 44.52	\$45.23
Cable splicer	43.82	44.52	45.23
Digging Machine Operator	39.44	40.07	40.71
Tractor Trailer Driver	37.25	37.84	38.45
Groundman/Truck Driver	35.06	35.62	36.18
Mechanic 1st Class	35.06	35.62	36.18
Flagman	26.29	26.71	27.14

Additional 1.00 per hr.for entire crew when a helicopter is used.

Above rates applicable on all overhead Transmission line work & Fiber Optic Cable where other construction trades are or have been involved. This applies to transmission line work only, not other construction.

Lineman/Technician/Welder	\$ 42.61	\$ 43.31	\$ 44.01
Digging Machine Operator	38.35	38.98	39.61
Tractor Trailer Driver	36.22	36.81	37.41
Groundman/Truck Driver	34.09	34.65	35.21
Mech. 1st Class	34.09	34.65	35.21
Flagman	25.57	25.99	26.41
Certified WelderPipe Type Cable	44.74	45.48	46.21
Cable Splicer pipe type cable	46.87	47.64	48.41

Additional 1.00 per hour for entire crew when a helicopter job.

Above rates apply on Switching Structures, Maintenance projects, Railroad Catenary install/maint, Third rail installation, Bonding of Rails and pipe type cable and installation of Fiber Optic Cable.

Lineman /Techician	\$ 41.32	\$ 42.02	\$ 42.72
Welder/Cable Splicer	41.32	42.02	42.72
Digging Machine Operator	37.19	37.82	38.45
Tractor Trailer Driver	35.12	35.72	36.31
Groundman/Truck Driver	33.06	33.62	34.18
Mechanic 1st Class	33.06	33.62	34.18
Flagman	24.79	25.21	25.63

Additional 1.00 per.hr.for entire crew when a helicopter is used.

Above rates applicable on all overhead and underground distribution and maintenance work, and all overhead and underground transmission line work and the installation of Fiber Optic Cable where no other construction trades are or have been involved.

Lineman/Technician	\$ 41.32	\$ 42.02	\$ 42.72
Cable Splicer pipe type cable	45.45	46.22	46.99
Certified Welder pipe type	43.39	44.12	44.86
Digging Machine Operator	37.19	37.82	38.45
Tractor Trailer Driver	35.12	35.72	36.31
Mechanic 1st Class	33.06	33.62	34.18
Groundman/Truck Driver	33.06	33.62	34.18
Flagman	24.79	25.21	25.63

Additional \$ 1.00 per hour for entire crew when a helicopter is used.

Above rates applicable on all electrical sub-stations, switching structures, fiber optic cable and all other work not defined as "Utility outside electrical work"

**\*\* IMPORTANT NOTICE - EFFECTIVE 04/01/2009 \*\***

Four (4), ten (10) hour days may be worked at straight time during a week, Monday thru Thursday. Friday may be used as a make-up day.

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 worked including holidays listed below:

The following SUPPLEMENTAL benefits apply to all classification categories of CONSTRUCTION, TRANSMISSION and DISTRIBUTION.

\$ 15.00	\$ 16.50	\$ 18.25
*plus 7% of	*plus 7% of	*plus 7% of
hourly wage paid	hourly wage paid	hourly wage paid

**OVERTIME PAY**

See (B, E, Q,) on OVERTIME PAGE. Double time for all emergency work designated by the Dept. of Jurisdiction.

NOTE: THE FOLLOWING RATES WILL APPLY ON ALL CONTRACTING AGENCY MANDATED SHIFTS OF AT LEAST FIVE ( 5 ) DAYS DURATION WORKED BETWEEN THE HOURS LISTED BELOW:

1st shift	8:00 AM to 4:30 PM REGULAR RATE
2nd shift	4:30 PM to 1:00 AM REGULAR RATE PLUS 17.3 %
3rd shift	12:30 AM to 9:00 AM REGULAR RATE PLUS 31.4 %

**HOLIDAY**

Paid See ( 5, 6, 8, 13, 25 ) on HOLIDAY PAGE plus Gov. of NYS Election Day.  
 Overtime See ( 5, 6, 8, 13, 25 ) on HOLIDAY PAGE plus Gov. of NYS Election Day.

SUPPLEMENTS for holidays paid at straight time

**REGISTERED APPRENTICES**

( 1000 ) hr terms at the following percentage of Journeyman's wage.

1st	2nd	3rd	4th	5th	6th	7th
60%	65%	70%	75%	80%	85%	90%

Supplemental Benefits per hour worked:

The following SUPPLEMENTAL benefits apply to all classification categories of CONSTRUCTION, TRANSMISSION and DISTRIBUTION.

\$ 15.00	\$ 16.50	\$ 18.25
*plus 7% of	*plus 7% of	*plus 7% of
hourly wage paid	hourly wage paid	hourly wage paid

\*NOTE: The 7% is based on the hourly wage paid, straight time rate or premium rate.

6-1249a

**Lineman Electrician - Teledata**

**03/01/2011**

**JOB DESCRIPTION** Lineman Electrician - Teledata

**DISTRICT 6**

**ENTIRE COUNTIES**

Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Westchester, Wyoming, Yates

**WAGES**

Per hour:

FOR WORK OUTSIDE BUILDING PROPERTY LINES.

	07/01/2010	01/01/2011
Cable Splicer	\$ 26.64	\$ 27.44
Installer/Repairman	25.29	26.05
Teledata Lineman	25.29	26.05
Technician/Equip Oper	25.29	26.05
Groundman	13.40	13.81

NOTE: EXCLUDES Teledata work within ten feet of High Voltage (600 volts and over) transmission lines. For this work please see LINEMAN.

**SUPPLEMENTAL BENEFITS**

Per hour worked:

\$ 4.43	\$ 4.43
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\*plus 3% of hourly wage paid

\*plus 3% of hourly wage paid

\*NOTE: The 3% is based on the hourly wage paid, straight time rate or premium rate.

**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6, 16) on HOLIDAY PAGE

6-1249LT - Teledata

**Lineman Electrician - Traffic Signal Lighting 03/01/2011**

**JOB DESCRIPTION** Lineman Electrician - Traffic Signal Lighting

**DISTRICT** 6

**ENTIRE COUNTIES**

Columbia, Dutchess, Orange, Putnam, Rockland, Ulster

**WAGES**

Per hour:

For all Lighting and Traffic Signal Systems.

	07/01/2010	05/02/2011	05/07/2012
Lineman/Technician	\$ 38.80	\$39.26	\$39.50
Certified Welder	40.74	41.22	41.48
Digging Machine	34.92	35.33	35.55
Tractor Trailer driver	32.98	33.37	33.58
Groundman Truck Driver	31.04	31.41	31.60
Mechanic 1st Class	31.04	31.41	31.60
Flagman	23.28	23.56	23.70

Above rates applicable on ALL Lighting and Traffic Signal Systems and the installation, testing, operation, maintenance and repair of all traffic control and illumination projects, traffic monitoring systems, road weather information systems and the installation of Fiber Optic Cable.

**SUPPLEMENTAL BENEFITS**

Per hour worked including holidays listed below:

All classifications	\$ 15.00	\$16.50	\$18.25
	*plus 6.5% of hourly wage paid	*plus 6.5% of hourly wage paid	*plus 6.5% of hourly wage paid

\*NOTE: The 6.5% is based on the hourly wage paid, straight time rate or premium rate.  
 Supplements paid at STRAIGHT TIME rate for holidays.

**OVERTIME PAY**

See ( B, E, Q,) on OVERTIME PAGE. Note\* Double time for all emergency work designated by the Dept of Jurisdiction.

NOTE: THE FOLLOWING RATES WILL APPLY ON ALL CONTRACTING AGENCY MANDATED SHIFTS OF AT LEAST FIVE ( 5 ) DAYS DURATION WORKED BETWEEN THE HOURS LISTED BELOW:

1ST SHIFT	8:00 AM TO 4:30 PM REGULAR RATE
2ND SHIFT	4:30 PM TO 1:00 AM REGULAR RATE PLUS 17.3%
3RD SHIFT	12:30 AM TO 9:00 AM REGULAR RATE PLUS 31.4%

**HOLIDAY**

HOLIDAY:

Paid See ( 5, 6, 8, 13, 25 ) on HOLIDAY PAGE and Gov of NYS Election Day.  
 Overtime See ( 5, 6, 8, 13, 25 ) on HOLIDAY PAGE and Gov of NYS Election Day.

**REGISTERED APPRENTICES**

WAGES: (1000) hr terms at the following percentage of Journeyman Lineman/Technician wage.

1st	2nd	3rd	4th	5th	6th	7th
60%	65%	70%	75%	80%	85%	90%

SUPPLEMENTAL BENEFITS: Same as Journeyman/Technician.

6-1249aReg8LT

**Lineman Electrician - Tree Trimmer**

**03/01/2011**

**JOB DESCRIPTION** Lineman Electrician - Tree Trimmer

**DISTRICT 6**

**ENTIRE COUNTIES**

Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

**WAGES**

Per hour:

Applies to line clearance, tree work and right-of-way preparation on all new or existing energized overhead or underground electrical, telephone and CATV lines. This also would include stump removal near underground energized electrical lines, including telephone and CATV lines.

	07/01/2010	01/02/2011	01/01/2012
Tree trimmer	\$ 21.22	\$ 21.64	\$ 22.08
Equip Operator	18.72	19.09	19.48
Mechanic	18.72	19.09	19.48
Truck Driver	15.82	16.14	16.46
Ground person	12.99	13.25	13.51
Flag person	9.25	9.44	9.62

**SUPPLEMENTAL BENEFITS**

Per hour worked:

	07/01/2010	01/02/2011	01/01/2012
	\$ 6.84	\$ 7.36	\$ 7.88
	*plus 3% of hourly wage paid	*plus 3% of hourly wage paid	*plus 3% of hourly wage paid

Supplements paid at STRAIGHT TIME rate for holidays.

\*NOTE: The 3% is based on the hourly wage paid, straight time rate or premium rate.

**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6, 8, 15, 16, 25) on HOLIDAY PAGE  
 Overtime: See (5, 6, 8, 15, 16, 25) on HOLIDAY PAGE

6-1249TT

**Mason - Building**

**03/01/2011**

**JOB DESCRIPTION** Mason - Building

**DISTRICT 9**

**ENTIRE COUNTIES**

Bronx, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Westchester

**WAGES**

Per hour:

	07/01/2010	12/06/2010
Building:		
Tile Finisher	\$ 38.61	+Additional \$ 1.18*

\*Increase to be allocated at a later date

**SUPPLEMENTAL BENEFITS**

Journeyworker	\$ 21.65	\$ 21.65
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**OVERTIME PAY**

See (A, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6, 8, 10, 11, 15, 16) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wages:  
 (per hour paid)

( 750 hour ) terms at the following percentages of Journeyworkers wage.

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	65%	70%	75%	85%	90%	95%

Supplemental Benefits:  
 (per hour paid)

(750) hour terms at the following percentages of Journeyworkers wage:

Apprentices.

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	65%	70%	75%	85%	90%	95%

9-7/88-tf

**Mason - Building** **03/01/2011**

**JOB DESCRIPTION** Mason - Building **DISTRICT 9**

**ENTIRE COUNTIES**  
 Bronx, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Westchester

**WAGES**  
 Per hour: 07/01/2010

Building:  
 Tile Setters \$ 47.51

**SUPPLEMENTAL BENEFITS**  
 Journeyworker: \$ 25.40

**OVERTIME PAY**  
 See (A, E, Q, \*V) on OVERTIME PAGE  
 \*Applicable to Shift Work ONLY

**HOLIDAY**  
 Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6, 8, 10, 11, 15, 16) on HOLIDAY PAGE

**REGISTERED APPRENTICES**  
 Wage per hour:  
 (750 hr)terms at the following wage rates.

Term:	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
Hours:	1-750	751-1500	1501-2250	2251-3000	3001-3750	3751-4500	4501-5250	5251-6000	6001-6750
Wages:	\$23.91	26.53	30.18	31.60	34.09	35.69	40.79	45.71	47.10

Supplemental Benefits per hour paid:

Term:	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
Hours:	1-750	751-1500	1501-2250	2251-3000	3001-3750	3751-4500	4501-5250	5251-6000	6001-6750
Supps.	\$12.55	13.57	13.57	15.79	16.95	18.99	21.18	23.55	25.81

9-7/52

**Mason - Building** **03/01/2011**

**JOB DESCRIPTION** Mason - Building **DISTRICT 8**

**ENTIRE COUNTIES**  
 Putnam, Rockland, Westchester

**PARTIAL COUNTIES**  
 Orange: Only the Township of Tuxedo.

**WAGES**  
 Per hour  
 07/01/2010

Bricklayer	\$ 37.55
Cement Mason Bldg	37.55
Plasterer/Stone Mason	37.55
Pointer/Caulker	37.55

Additional \$1.00 per hour for power saw work  
Additional \$0.50 per hour for swing scaffold or staging work

**SUPPLEMENTAL BENEFITS**

Per hour paid

Journeyman	\$ 27.43
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**OVERTIME PAY**

OVERTIME:

Cement Mason	See ( D, E2, O ) on OVERTIME PAGE.
All Others	See ( B, E, E2, Q ) on OVERTIME PAGE.

**HOLIDAY**

Paid:	See (1) on HOLIDAY PAGE
Overtime:	See (5, 6) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wages per hour

One Half Year terms at the following percentage of Journeyman's wage

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	60%	65%	70%	75%	80%	85%

Supplemental Benefits per hour paid

1st & 2nd terms	\$ 15.11
All others	27.43

8-5wp-b

**Mason - Building**

**03/01/2011**

**JOB DESCRIPTION** Mason - Building

**DISTRICT 8**

**ENTIRE COUNTIES**

Dutchess, Sullivan, Ulster

**PARTIAL COUNTIES**

Orange: Entire county except the Township of Tuxedo.

**WAGES**

Per hour

07/01/2010

Bricklayer	\$ 36.75
Cement Mason Bldg	36.75
Plasterer/Stone Mason	36.75
Pointer/Caulker	36.75

Additional \$1.00 per hour for power saw work  
Additional \$0.50 per hour for swing scaffold or staging work

**SUPPLEMENTAL BENEFITS**

Per hour paid

Journeyman	\$ 26.93
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**OVERTIME PAY**

Cement Mason	See ( D, E2, O ) on OVERTIME PAGE.
All Others	See ( B, E, E2, Q ) on OVERTIME PAGE.

**HOLIDAY**

Paid:	See (1) on HOLIDAY PAGE
Overtime:	See (5, 6) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wages per hour

One Half Year terms at the following percentage of Journeyman's wage

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	60%	65%	70%	75%	80%	85%

Supplemental Benefits per hour paid

1st & 2nd terms	\$14.84
All others	26.93

8-5du-b

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**Mason - Heavy&Highway** **03/01/2011**

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**JOB DESCRIPTION** Mason - Heavy&Highway

**DISTRICT 8**

**ENTIRE COUNTIES**  
Putnam, Rockland, Westchester

**PARTIAL COUNTIES**  
Orange: Only the Township of Tuxedo.

**WAGES**

Per hour  
07/01/2010

Bricklayer	\$ 38.05
Cement Mason	38.05
Marble/Stone Mason	38.05
Plasterer	38.05
Pointer/Caulker	38.05

Additional \$1.00 per hour for power saw work  
Additional \$0.50 per hour for swing scaffold or staging work

**SUPPLEMENTAL BENEFITS**

Per hour paid

Journeyman	\$ 27.43
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**OVERTIME PAY**

See (B, O) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6, 15, 25) on HOLIDAY PAGE  
Overtime: See (5, 6, 15, 25) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wages per hour

One Half Year terms at the following percentage of Journeyman's wage

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	60%	65%	70%	75%	80%	85%

Supplemental Benefits per hour paid

1st and 2nd terms	\$ 15.11
All others	27.43

8-5WP-H/H

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**Mason - Heavy&Highway** **03/01/2011**

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**JOB DESCRIPTION** Mason - Heavy&Highway

**DISTRICT 8**

**ENTIRE COUNTIES**  
Dutchess, Sullivan, Ulster

**PARTIAL COUNTIES**  
Orange: Entire county except the Township of Tuxedo.

**WAGES**

Per hour

07/01/2010

Bricklayer	\$ 37.25
Cement Mason	37.25
Marble/Stone Mason	37.25
Plasterer	37.25
Pointer/Caulker	37.25

Additional \$1.00 per hour for power saw work  
 Additional \$0.50 per hour for swing scaffold or staging work

**SUPPLEMENTAL BENEFITS**

Per hour paid

Journeyman	\$ 26.93
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**OVERTIME PAY**

See (B, O) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6, 15, 25) on HOLIDAY PAGE  
 Overtime: See (5, 6, 15, 25) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wages per hour

One Half Year terms at the following percentage of Journeyman's wage

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	60%	65%	70%	75%	80%	85%

Supplemental Benefits per hour paid

1st & 2nd terms	\$ 14.84
All others	26.93

8-5du-H/H

**Operating Engineer - Building / Heavy&Highway**

**03/01/2011**

**JOB DESCRIPTION** Operating Engineer - Building / Heavy&Highway

**DISTRICT 8**

**ENTIRE COUNTIES**

Delaware, Orange, Rockland, Sullivan, Ulster

**WAGES**

CLASS A: Autograde-Comb. Subgrader, Base Material Spreader and Base Trimme (CMI and Similar Types), Autograde Placer-Trimmer-Spreader Comb. (CMI & Similar types), Autograde Slipform Paver (CMI & Similar Types), Backhoe, Central Power Plants (all types), Concrete Paving Machines, Cranes (all types, incl. Overhead & Straddle Traveling Type), Cranes-Gantry, Derricks (Land or Floating), Drillmaster, Quarrymaster (Down the Hole Drill), Rotary Drill, Self-Propelled Hydraulic Drill, Self-Powered Drill, Draglines, Elevator Graders, Front End Loaders (5 yds. and over), Gradalls, Grader-Rago, Helicopters (Co-Pilot), Helicopters (Communications Engineer), Locomotive (Large), Mucking Machines, Pavement & Concrete Breaker, i.e., Superhammer & Hoe Ram, Piledriver (length of boom including lead length shall determine premium rate applicable), Roadway Surface Grinder, Scooper (Loader and Shovel), Shovels, Tree Chopper with Boom and Trench Machines.

CLASS B: "A" Frame, Backhoe (Combination), Boom Attachment on Loaders (Rate based on size Bucket-not applicable to pipehook), Boring and Drilling Machines, Brush Chopper, Shredder and Tree Shredder, Cableways, Carryalls, Concrete Pump, Concrete Pumping System, Pumpcrete and Similar Types, Conveyors (125 ft. and over), Drill Doctor (duties incl. Dust Collector Maintenance), Front End Loaders (2 yds. but less than 5 yds.), Graders (Finish), Groove Cutting Machine (Ride on Type), Heater Planer, Hoists (all type Hoists, shall also include Steam, Gas, Diesel, Electric, Air Hydraulic, Single and Double Drum, Concrete, Brick Shaft Caisson, Snorkel Rood, and/or any other Similar Type Hoisting Machines, portable or stationary, except Chicago Boom Type), Long Boom Rate to be applied if Hoist is "Outside Material Tower Hoist," Hoists (Chicago Boom Type), Hydraulic Cranes-10 tons and under, Hydro-Axe, Jacks-Screw Air Hydraulic Power Operated Unit or Console Type (not hand Jack or Pile Load Test Type), Log Skidder, Pans, Pavers (all) concrete, Pumpcrete Machines, Squeeze-crete & Concrete Pumping (regardless of size), Scrapers, Side Booms, "Straddle"Carrier-Ross and similar types, Winch Trucks (Hoisting), Vacuum Truck, Whip Hammer.



CLASS C: Asphalt Curbing Machine, Asphalt Plant Engineer, Asphalt Spreaders, Autograde Tube Finisher and Texturing Machine (CMI & Similar types), Autograde curecrete machine (CMI & Similar Types), Autograde Curb Trimmer & Sidewalk, Shoulder, Slipform (CMI & Similar Types), Bar Bending Machines(Power),Batchers, Batching Plant and Crusher on Site, Belt Conveyor Systems, Boom Type Skimmer Machines, Bridge Deck Finisher, Bulldozer (all), Car Dumpers (Railroad), Compressor and Blower Type Units (used independently or mounted on dual purpose Trucks, on Job Site or in conjunction with jobsite, in Loading and Unloading of Concrete, Cement, Fly Ash, Instacrete, or Similar Type Materials), Compressors (2 or 3 in Battery), Concrete Breaking Machines, Concrete Finishing Machines, Concrete Saws and Cutters (Ride-on type) Concrete Spreaders (Hetzl, Rexomatic and Similar Types), Concrete Vibrators, Conveyors (under 125 feet), Crushing Machines, Ditching Machine-small (Ditch-witch, Vermeer, or Similar type), Dope Dots (Mechanical with or without pump), Dumpsters, Elevator, Fireman, ForkLifts (Economobile, Lull and Similar Types of Equipment), Front End Loaders (1 yd.and over but under 2 yds.), Generators (2 or 3 in Battery), Giraffe Grinders, Graders & Motor Patrols, Gunnite Machines (excluding nozzle), Hammer Vibrator (in conjunction with Generator), Hoists-Roof, Tugger, Aerial Platform Hoist & House Cars), Hoppers, Hopper Doors (power operated), Ladders (motorized), Laddervator, Locomotive-dinky type, Maintenance -Utility Man, Mechanics, Mixers (Excepting Paving Mixers), Motor Patrols and Graders, Pavement Breakers (small self propelled ride on type-also maintains compressor hydraulic unit), Pavement Breaker-truck mounted, Pipe Bending Machine (Power), Pitch Pump, Plaster Pump (regardless of size), Post Hole Digger (Post Pounder & Auger), Rod Bending Machines (Power), Roller-Black Top, Scales (Power), Seaman pulverizing mixer, Shoulder widener, Silos, Skimmer Machines (boom-type),Steel Cutting Machine (service & maintain), Tractor, Tug Captain, Vibrating Plants (used inconjunction with unloading), Welder and Repair Mechanics.

CLASS D: Brooms and Sweepers, Chippers, Compressor (single), Concrete Spreaders (small type), Conveyor Loaders (not including Elevator Graders), Engines-large diesel (1620 HP) and Staging Pump, Farm Tractors, Fertilizing Equipment (Operation & Maint. of), Fine Grade Machine (small type), Form Line Graders (small type), Front End Loader (under 1 yard), Generator (single), Grease, Gas, Fuel and Oil supply trucks, Heaters (Nelson or other type incl. Propane, Natural Gas or Flowtype Units), Lights, Portable Generating Light Plants, Mixers (Concrete, small), Mulching Equipment (Operation and Maintenance of), Pumps (4 inch.suction & over incl. submersible pumps), Pumps (2 inch or less than four (4) inches such incl. submersible pumps), Pumps (Diesel Engine and Hydraulic-immaterial of power, Road Finishing Machines (small type), Rollers-grade, fill or stone base, Seeding Equip. (Operation and Maintenance of), Sprinkler & Water Pump Trucks (used on jobsite or in conjunction with jobsite), Steam Jennies and Boilers-irrespective of use, Stone Spreader, Tamping Machines Machines, Vibrating Ride-on, Temporary Heating Plant (Nelson or other type, incl. Propane, Natural Gas or Flow Type Units), Water & Sprinkler Trucks (used on or in conjunction with jobsite), Welding Machines (Gas, Diesel, and/or Elec-tric Converters of any type, single, two, or three in a battery), Wellpoint Systems (including installation by Bull Gang and Maintenance of).

CLASS E: Assistant Engineer/Oiler, Maintenance Apprentice (Deck Hand), Maintenance Apprentice (Oiler), Mechanics' Helper, Tire Repair and Maintenance, Transit/Instrument Man.

**WAGES:(per hour)**

07/01/2010

Class A	\$ 41.02
Class B	39.43
Class C	37.52
Class D	35.89
Class E	34.18

Helicopter: Pilot/Engineer	42.84
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Surveying: Chief of Party	41.02
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Transit/Instrument man	34.18
Rod/Chainman	31.60

SHIFT WORK: On all Government mandated irregular or off shift work, an additional 15% on straight time hours.

On machines with booms (including jib) of 100 to 139' an additional \$1.00 per hour. On machines with booms (including jib) of 140' and over an additional \$2.00 per hour. Additional 20% per hour for DEC or EPA certified toxic or hazardous waste work. For Steel Erection,Class A for booms including jib less then 140 feet add \$1.36, over 140 feet add \$2.02 per hour. Class B add \$1.16 per hour, Class C add \$0.41 per hour, Class D add \$0.51 per hour, Class E add \$0.46 per hour. For Helicopter Pilot/Engineer add \$1.81 per hour.

**SUPPLEMENTAL BENEFITS**

(per hour paid)

Journeyman	\$ 25.83
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**OVERTIME PAY**

See (B, E, Q, V) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6, 10, 13, 15) on HOLIDAY PAGE  
 Overtime: See (5, 6, 10, 13, 15) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

(1) year terms at the following percentage of journeyman's wage.

1st	2nd	3rd	4th
60%	70%	80%	90%

Supplemental Benefits per hour paid:

Apprentices \$ 25.83

8-825

**Operating Engineer - Marine Construction**

**03/01/2011**

**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, Schuylar, Seneca, St. Lawrence, Steuben, Suffolk, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Westchester, Wyoming, Yates

**WAGES**

Per Hour:

DREDGING OPERATIONS 07/01/2010

**CLASS A**

Operator, Leverman, \$ 32.89  
 Lead Dredgeman

**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, \$ 28.49  
 Tug Operator(over1000hp),  
 OperatorII, Fill Placer,  
 Derrick Operator, Engineer,  
 Chief Mate, Electrician,  
 Chief Welder,  
 Maintenance Engineer

Certified Welder, \$ 26.84  
 Boat Operator(licensed)

**CLASS C**

Drag Barge Operator, \$ 26.14  
 Steward, Mate,  
 Assistant Fill Placer,  
 Welder (please add) \$ 0.06

Boat Operator \$ 25.29

**CLASS D**

Shoreman, Deckhand, \$ 21.09  
 Rodman, Scowman, Cook,  
 Messman, Porter/Janitor  
 Oiler(please add) \$ 0.09

**SUPPLEMENTAL BENEFITS**

Per Hour:

THE FOLLOWING SUPPLEMENTAL BENEFITS APPLY TO ALL CATEGORIES

07/01/2010

All Classes A & B \$ 8.05 plus  
 7% of straight  
 time wage  
 (overtime hours add) \$ 0.63

All Class C \$ 7.75 plus  
 7% of straight  
 time wage  
 (overtime hours add) \$ 0.48

All Class D \$ 7.45 plus  
 7% of straight  
 time wage  
 (overtime hours add) \$ 0.23

**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

**Painter** **03/01/2011**

**JOB DESCRIPTION** Painter **DISTRICT 1**

**ENTIRE COUNTIES**  
 Columbia, Dutchess, Greene, Orange, Sullivan, Ulster

**WAGES**

Per hour	07/01/2010	05/01/2011 An Additional	05/01/2012 An Additional
Brush/Paper Hanger	\$ 27.39	\$ 2.25**	\$ 2.25**
Dry Wall Finisher	27.39	2.25**	2.25**
Lead Abatement	27.39	2.25**	2.25**
Sandblaster-Painter	27.39	2.25**	2.25**
Spray Rate	28.39	2.25**	2.25**

(\*\*) To be allocated at a later date

See Bridge Painting rates for the following work:  
 Structural Steel (defined as any steel where a man works without the support of solid scaffolding or mechanical lifts), all work performed on tanks (100,000 gallons or over twenty feet high), ALL BRIDGES, towers, smoke stacks, flag poles. Rate shall apply to all of said areas from the ground up.

**SUPPLEMENTAL BENEFITS**

Per hour worked  
 Journeyman \$ 16.39

**OVERTIME PAY**  
 See (B, E, E2, Q) on OVERTIME PAGE

**HOLIDAY**  
 Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wages per hour  
 Six (6) month terms at the following percentage of Journeyman's wage

1st	2nd	3rd	4th	5th	6th
40%	50%	60%	70%	80%	90%

Supplemental Benefits per hour worked

1st term	\$ 7.49
All others	16.39

1-155

**Painter - Bridge & Structural Steel** **03/01/2011**

**JOB DESCRIPTION** Painter - Bridge & Structural Steel

**DISTRICT** 9

**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)	07/01/2010	10/01/2010
<b>STEEL:</b>		
Bridge Painting	\$ 45.50	\$ 46.25
Power Tool/Spray	\$ 51.50	\$ 52.25

Shift Work: Where project specifications and/or contract provide for night work outside the regular hours of work, and said night work is performed on a second shift, which is separate from the first crew, the night shift employees shall be paid an additional 10% of the regular wage up to seven (7) hours, after which they shall be paid at time and one half the regular wage. If only a night shift is employed, the employees shall be paid at time and one half.

Note: 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:	07/01/2010	10/01/2010
Journeyworker	\$ 29.90*	\$ 31.04*
	\$ 29.90**	\$ 31.04**
Hourly Rate after 40 hours from May 1st to Nov. 15th	\$6.00 only	\$6.75 only
Hourly Rate after 50 hours from Nov. 16th to April 30th	\$6.00 only	\$6.75 only

\*For the period of May 1st to November 15th:

This rate shall be paid up to maximum of forty (40) hours worked per week. For all hours exceeding 40, the hourly rate shall drop to the hourly rate shown above by date.

EXCEPT 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.

\*\*For the period of November 16th to April 30th:

This rate shall be paid up to a maximum of fifty (50) hours worked per week. For all hours exceeding 50, the hourly rate shall drop to the hourly rate shown above by date.

**OVERTIME PAY**

See (A, F, R) on OVERTIME PAGE

\*Note: When calculating overtime pay for the Power Tool/ Spray classification, add Six dollars to the hourly overtime rate calculated for the "Bridge Painting" classification.

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (4, 6) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

(wage per hour Worked):

(1) year terms at the following percentage of Journeyworkers wage.

Apprentices:	1st	2nd	3rd
07/01/2010	40%	60%	80%

Supplemental Benefits:

1st Term: Same percentage as used for wage

2nd and 3rd term: Same percentage as used for wage

9-DC-9/806/155-BrSS

**Painter - Line Striping**

**03/01/2011**

**JOB DESCRIPTION** Painter - Line Striping

**DISTRICT 9**

**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): 07/01/2010

Striping-Machine Operator\* \$ 25.53

Linerman Thermoplastic \$ 30.79

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

**SUPPLEMENTAL BENEFITS**

Per hour paid: 07/01/2010

Journeyworker: \$ 9.97 + 7% of wage

**OVERTIME PAY**

See (B, E, P, 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

9-8A/28A-LS

**Painter - Metal Polisher**

**03/01/2011**

**JOB DESCRIPTION** Painter - Metal Polisher

**DISTRICT 9**

**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**

07/01/2010

Metal Polisher \$ 25.60\*

\*Note: All workers shall be paid an additional premium in an amount equal to twenty (20%) percent of their basic straight time rate of pay for all time worked on hanging scaffolds and on standing scaffolds while working more than 34 feet off the ground. Such premium are to be paid on top of their straight time or overtime, whichever is applicable. This also applies to employees erecting scaffolding.

**SUPPLEMENTAL BENEFITS**

Per Hour: 07/01/2010

Journeyworker: \$ 11.12

**OVERTIME PAY**

See (B, E, Q, 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**

55% of Basic Polisher Rate

9-8A/28A-MP

**Plumber**

**03/01/2011**

**JOB DESCRIPTION** Plumber

**DISTRICT 8**

**ENTIRE COUNTIES**

Orange, Rockland, Sullivan

**PARTIAL COUNTIES**

Ulster: Only the Townships of Plattekill, Marlboro, Wawarsing, and Shawangunk (except for Wallkill and Shawangunk Prisons).

**WAGES**

WAGES:(per hour)

07/01/2010

Total Projects

over \$230,000.00

Plumber/Steamfitter

\$ 39.45

Total Projects

\$230,000.00 and under.

Plumber/Steamfitter

\$ 33.53

\*Note: For all work 40-60 feet above ground add \$ 0.25 per hour,  
over 60 feet add \$ 0.50 per hour.

**SUPPLEMENTAL BENEFITS**

(per hour worked)

On Projects over \$230,000.00:

Journeyman

\$ 28.79

On Projects \$230,000.00 and under:

Journeyman

\$ 24.40

**OVERTIME PAY**

OVERTIME: ( B, E, Q, V ) on OVERTIME PAGE.

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6, 10, 15, 16) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

( 1 ) year terms at the following wages.

For Projects over \$230,000.00:

1st term \$ 16.18

2nd term 20.22

3rd term 25.64

4th term 27.62

5th term 33.53

Supplemental Benefits per hour worked:

Apprentice

1st term \$ 13.41

2nd term 16.20

3rd term 22.17

4th term 23.11

5th term 25.95

( 1 ) year terms at the following wages.

For Projects \$230,000.00 and under:

1st term \$ 13.41

2nd term 16.75

3rd term 21.79

4th term 23.47

5th term 28.50

Supplemental Benefits per hour worked:

Apprentice	
1st term	\$ 11.29
2nd term	13.63
3rd term	18.75
4th term	19.56
5th term	21.95

8-373 SF

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**Plumber**

**03/01/2011**

**JOB DESCRIPTION** Plumber

**DISTRICT 8**

**ENTIRE COUNTIES**

Orange, Rockland, Sullivan

**PARTIAL COUNTIES**

Ulster: Only the Townships of Plattekill, Marlboro, Wawarsing, and Shawangunk (except for Wallkill and Shawangunk Prisons).

**WAGES**

REFRIGERATION/AIR COOLING/AIR CONDITIONING: For refrigeration where combined compressor tonnage does not exceed 40 tons.  
For water-cooled air conditioning where units do not exceed 25 tons, including piping of the component system and erection of water tower.  
For air-cooled air conditioning where units do not exceed 50 tons.

WAGES: (per hour)

07/01/2010

Plumber/Steamfitter \$ 31.31

**SUPPLEMENTAL BENEFITS**

Per hour paid:

Journeyman \$ 19.45

**OVERTIME PAY**

See (B, G, P) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6, 13, 15, 25) on HOLIDAY PAGE

Overtime: See (5, 6, 13, 15, 25) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

(1)year terms at the following wage.

	1st.	2nd.	3rd.	4th.	5th.
	\$ 12.52	\$ 15.65	\$ 18.78	\$ 21.91	\$ 26.61

Supplemental Benefits per hour paid:

Apprentices	
1st term	\$ 8.93
2nd term	10.69
3rd term	12.43
4th term	14.18
5th term	16.81

8-373 Refrig

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**Plumber**

**03/01/2011**

**JOB DESCRIPTION** Plumber

**DISTRICT 8**

**ENTIRE COUNTIES**

Orange, Rockland, Sullivan

**PARTIAL COUNTIES**

Ulster: Only the Townships of Plattekill, Marlboro, Wawarsing, and Shawangunk (Except for Wallkill and Shawangunk Prisons)

**WAGES**

THE FOLLOWING RATES ONLY APPLY ON JOBBING & ALTERATION WORK:

WAGES: (per hour)

07/01/2010

Plumber/Steamfitter \$ 24.75

JOBING & ALTERATION WORK: Is any repair and/or replacement of present plumbing system that does not change existing roughing or water supply lines.

**SUPPLEMENTAL BENEFITS**

Per hour worked:  
Journeyman \$ 10.90

**OVERTIME PAY**

See (B, E, Q, V) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
Overtime: See (5, 6, 10, 15, 16) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

(1)year terms at the following wage.

	1st	2nd	3rd	4th	5th
	\$9.90	12.37	14.85	17.32	21.03

Supplemental Benefits per hour worked:

Apprentices	
1st term	\$ 5.92
2nd term	6.75
3rd term	7.58
4th term	8.41
5th term	9.65

8-373 Job/Alt

**Roofer**

**03/01/2011**

**JOB DESCRIPTION** Roofer

**DISTRICT 9**

**ENTIRE COUNTIES**

Bronx, Dutchess, Kings, New York, Orange, Putnam, Queens, Richmond, Rockland, Sullivan, Ulster, Westchester

**WAGES**

Per Hour: 07/01/2010

Roofer/Waterproofer \$ 37.50

**SUPPLEMENTAL BENEFITS**

Journeyworker \$ 27.37

**OVERTIME PAY**

See (B, H) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
Overtime: See (5, 6, 13, 25) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

( 1 ) year terms at the following percentage of Journeyworkers hourly wage.

	1st	2nd	3rd	4th
	35%	50%	60%	75%

Supplemental Benefits:

Per hour paid at the following term percentage of Journeyworkers.

Apprentice:



1st	2nd	3rd	4th
\$3.87	\$13.86	\$16.50	\$20.50

9-8R

**Sheetmetal Worker**

**03/01/2011**

**JOB DESCRIPTION** Sheetmetal Worker

**DISTRICT 8**

**ENTIRE COUNTIES**

Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster, Westchester

**WAGES**

SheetMetal Worker 07/01/2010  
 \$ 40.42

**SUPPLEMENTAL BENEFITS**

Journeyman \$ 29.64

**OVERTIME PAY**

OVERTIME:.. See ( B, E, Q, ) on OVERTIME PAGE.

\*Note: For Sundays or Holidays worked, HOURLY WAGE is double the total of the hourly wage plus the hourly benefit paid all in wages. (Benefits are included in the wages).

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6, 8, 13, 16, 23) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

1st	2nd	3rd	4th	5th	6th	7th	8th
\$14.79	\$16.76	\$ 18.67	\$ 20.58	\$ 22.39	\$ 24.29	\$ 26.19	\$ 28.53

Supplemental Benefits per hour:

**Apprentices**

1st term	\$ 13.27
2nd term	14.81
3rd term	16.40
4th term	17.98
5th term	19.67
6th term	21.27
7th term	22.87
8th term	24.03

8-38

**Sprinkler Fitter**

**03/01/2011**

**JOB DESCRIPTION** Sprinkler Fitter

**DISTRICT 1**

**ENTIRE COUNTIES**

Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster, Westchester

**WAGES**

Per hour 07/01/2010

Sprinkler \$ 39.40  
 Fitter

**SUPPLEMENTAL BENEFITS**

Per hour worked

Journeyman \$ 18.85

**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6) on HOLIDAY PAGE

Note: When a holiday falls on Sunday, the following Monday shall be considered a holiday and all work performed on either day shall be at the double time rate. When a holiday falls on Saturday, the preceding Friday shall be considered a holiday and all work performed on either day shall be at the double time rate.

**REGISTERED APPRENTICES**

Wages per hour

One Half Year terms at the following percentage of Journeyman's wage

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
50%	50%	55%	60%	65%	70%	75%	80%	85%	90%

Supplemental Benefits per hour worked

07/01/2010

1st & 2nd terms	\$ 8.41
3rd & 4th terms	\$ 13.35
All others	\$ 18.85

1-669.2

**Teamster - Building / Heavy&Highway**

**03/01/2011**

**JOB DESCRIPTION** Teamster - Building / Heavy&Highway

**DISTRICT 8**

**ENTIRE COUNTIES**

Dutchess, Orange, Rockland, Sullivan, Ulster

**WAGES**

GROUP 1: LeTourneau Tractors, Double Barrel Euclids, Athney Wagons and similar equipment (except when hooked to scrapers), Low Beds, I-Beam and Pole Trailers, Tire Trucks and Tractor and Trailers with 5 axles and over, Articulated Back Dumps and Road Oil Distributors.

GROUP 1A: Drivers on detachable Gooseneck Low Bed Trailers rated over 35 tons.

GROUP 2: All equipment 25 yards and up to and including 30 yard bodies and cable Dump Trailers and Powder and Dynamite Trucks.

GROUP 3: All Equipment up to and including 24-yard bodies, Mixer Trucks, Dump Crete Trucks and similar types of equipment, Fuel Trucks and Batch Trucks and all other Tractor Trailers.

GROUP 4: Tri-Axles, Ten Wheelers, Grease Trucks, Tillerman, Pattern Trucks, Intinuator Trucks.

GROUP 5: Straight Trucks.

GROUP 6: Pick-up Trucks for hauling materials, parts, and Escort Man over-the-road.

WAGES: (per hour)

07/01/2010

GROUP 1	\$ 29.70
GROUP 1A	30.84
GROUP 2	29.14
GROUP 3	28.92
GROUP 4	28.81
GROUP 5	28.69
GROUP 6	28.69

NOTE: additional 20% premium above the hourly wage for hazardous and toxic waste removal. This applies to all groups.

Shift Work: A shift premium of 10% on 2ND Shift and 15% on 3RD Shift will be paid for off-shift or irregular shift work when mandated by the NYS DOT or other governmental agency contracts.

**SUPPLEMENTAL BENEFITS**

Per hour paid:

First 40 hours	\$ 23.95
Over 40 hours	18.65

**OVERTIME PAY**

OVERTIME:... See ( B, E, P, T\*, U\*\*) on OVERTIME PAGE.

**HOLIDAY**

**HOLIDAY:**

Paid:..... See ( 5, 6, 13, 15, 25 ) on HOLIDAY PAGE.

Overtime:.. See ( 5, 6, 13, 15, 25 ) on HOLIDAY PAGE.

NOTE: Holidays worked Monday to Friday receive straight time wage for working, plus Holiday Pay.

\*Holidays worked on Saturday, code T applies.

\*\*Holidays worked on Sunday, code U applies.

8-445B/HH

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**Welder**

**03/01/2011**

**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 07/01/2010

Welder (To be paid the same rate of the mechanic performing the work)

**OVERTIME PAY**

**HOLIDAY**

1-As Per Trade

**Putnam County General Construction**

**Asbestos Worker** **03/01/2011**

**JOB DESCRIPTION** Asbestos Worker **DISTRICT 9**

**ENTIRE COUNTIES**  
 Columbia, Delaware, Dutchess, Greene, Orange, Putnam, Rockland, Sullivan, Ulster

**WAGES**  
 Per hour

	7/01/2010-	
	11/30/2010	
Asbestos Worker: Removal & Hazardous Abatement Only	\$ 36.30 plus additional \$3.00*	

Only for the removal of insulation materials from mechanical systems which are not going to be scrapped.

\* Increase to be allocated at a later date.

**SUPPLEMENTAL BENEFITS**

Per hour paid

Journeyman	\$ 14.00
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**OVERTIME PAY**

See (B, E, \*Q, \*\*T, V) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (2, 4, 6, 25) on HOLIDAY PAGE  
 \* Code Q applies to 4,6,& 25.  
 \*\* Code T applies to 2.

9-12a - Removal Only

**Boilermaker** **03/01/2011**

**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:

	07/01/2010-	01/01/2011
	12/31/2010	
Boilermaker	\$ 46.66	\$ 47.32
Repairs & Renovation	\$ 46.66	\$ 47.32

**SUPPLEMENTAL BENEFITS**

Per Hour:

	07/01/2010-	01/01/2011
	12/31/2010	
BoilerMaker	39.1% of Hourly Wage Paid + \$ 16.97	39.1% of Hourly Wage Paid + \$ 19.33

Repairs & Renovation\*

NOTE: "Hourly Wage Paid" shall include any and all premium(s) pay.  
 \*Same as Boilermaker (Includes replacement of parts and repairs & renovation of an existing unit).

**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.

\*\*Boilermaker gets 4 times the hourly wage rate for working on Labor Day.

\*\*\*Repairs & Renovation see (B,E,Q) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

(1/2) Year Terms at the following percentage of Boilermaker's Wage

1st	2nd	3rd	4th	5th	6th	7th	8th
65%	65%	70%	75%	80%	85%	90%	95%

Supplemental Benefits Per Hour:

	07/01/2010- 12/31/2010	01/01/2011
Boilermaker Apprentice(s)	39.1% of Hourly Wage Paid + \$ 16.97	39.1% of Hourly Wage Paid + \$ 19.33
Repairs & Renovation* Apprentice(s)	39.1% of Hourly Wage Paid + \$ 16.97	39.1 of Hourly Wage Paid + \$ 19.33

NOTE: "Hourly Wage Paid" shall include any and all premium(s) pay.

\*Includes replacement of parts and repairs & renovation of an existing unit.

4-5

**Carpenter** **03/01/2011**

**JOB DESCRIPTION** Carpenter

**DISTRICT 9**

**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 to the Atlantic Ocean.

**WAGES**

Per hour:	07/01/2010	10/17/2010 Additional*
Core Drilling:		
Driller	\$ 33.25	\$ 2.21*
Assistant Driller	26.95	1.94*

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.

\* May be allocated between wages and benefits.

**SUPPLEMENTAL BENEFITS**

Per hour paid:

Driller	\$ 17.52	\$ 17.52
Assistant	17.52	17.52

**OVERTIME PAY**

OVERTIME: See (B,E,K\*,P,R\*\*) on OVERTIME PAGE.

**HOLIDAY**

HOLIDAY:

Paid: See (5,6) on HOLIDAY PAGE.

Overtime: \* See (5,6) on HOLIDAY PAGE.  
 \*\* See (8,10,11,13) on HOLIDAY PAGE.

Assistant: One (1) year increments at the following percentage of Assistant wages. This is not an apprenticeship for Driller.

1st Year	2nd Year	3rd Year	4th Year
70%	80%	90%	100%

9-1536-CoreDriller

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**Carpenter** **03/01/2011**

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**JOB DESCRIPTION** Carpenter **DISTRICT 9**

**ENTIRE COUNTIES**  
 Bronx, Kings, Nassau, New York, Putnam, Queens, Richmond, Rockland, Suffolk, Westchester

**WAGES**

Per hour: 07/01/2010

Building  
 Millwright \$ 44.24 +Additional \$3.62\*

\*Increase to be allocated at a later date

**SUPPLEMENTAL BENEFITS**

Per hour paid:

Millwright \$ 44.75

**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 is Percentage of Journeyworkers wage

(1) year terms:

1st.	2nd.	3rd.	4th.
55%	65%	75%	95%

Supplemental benefits per hour:

(1) year terms:

1st.	2nd.	3rd.	4th.
\$28.19	\$31.29	\$35.51	\$40.62

9-740.1

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**Carpenter** **03/01/2011**

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**JOB DESCRIPTION** Carpenter **DISTRICT 9**

**ENTIRE COUNTIES**  
 Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Westchester

**WAGES**

Per hour: 07/01/2010

Marine Construction:

Marine Diver \$ 56.32  
 M.D.Tender 40.17

**SUPPLEMENTAL BENEFITS**

Per hour paid:

Journeyman \$ 40.86

**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 (5,6,10,11,13,16,18,19)

Overtime:

See (5,6,10,11,13,16,18,19) on HOLIDAY PAGE.

**REGISTERED APPRENTICES**

Wager per hour is Percentage of Journeymans Wage

(1) year terms:

1st	2nd	3rd	4th
40%	50%	65%	80%

Supplemental benefits per hour:

Apprentices \$ 26.97

9-1456MC

**Carpenter**

**03/01/2011**

**JOB DESCRIPTION** Carpenter

**DISTRICT 9**

**ENTIRE COUNTIES**

Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Westchester

**WAGES**

Per hour: 07/01/2010

Carpet/Resilient

Floor Coverer \$ 44.02 +Additional \$ 1.32\*

\*Increase to be allocated at a later date

**SUPPLEMENTAL BENEFITS**

Per hour paid:

Floor Coverer \$ 38.58

**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 Percentage of Journeyworkers Wage

(1) year terms:

1st.	2nd.	3rd.	4th.
40%	50%	65%	80%

Supplemental benefits per hour:

Apprentices \$ 25.83

9-2287

**Carpenter**

**03/01/2011**

**JOB DESCRIPTION** Carpenter

**DISTRICT 9**

**ENTIRE COUNTIES**

Bronx, Kings, Nassau, New York, Putnam, Queens, Richmond, Rockland, Suffolk, Westchester

**WAGES**

Per hour: 07/01/2010

Piledriver \$ 44.61 +Additional \$ 3.72\*  
Dockbuilder 44.61 +Additional \$ 3.72\*

\*Increase to be allocated at a later date

**SUPPLEMENTAL BENEFITS**

Per hour paid:

Journeyworker \$ 40.86

**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 houris Percentage of Journeyworkers Wage

(1)year terms:

1st.	2nd.	3rd.	4th.
40%	50%	65%	80%

Supplemental benefits per hour:

Apprentices \$ 26.97

9-1456

**Carpenter**

**03/01/2011**

**JOB DESCRIPTION** Carpenter

**DISTRICT 9**

**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: 07/01/2010

Show Exhibit/  
Carpenter \$ 44.02 +Additional \$2.13\*



\*Increase to be allocated at a later date

**SUPPLEMENTAL BENEFITS**

Per hour paid:

Show Exhibit/  
 Carpenter \$ 38.58

**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 Percentage of Journeyworkers Wage

(1) year terms:

1st.	2nd.	3rd.	4th.
40%	50%	65%	80%

Supplemental benefits per hour:

Apprentices \$ 25.83

9-EXHIB

**Carpenter - Building / Heavy&Highway**

**03/01/2011**

**JOB DESCRIPTION** Carpenter - Building / Heavy&Highway

**DISTRICT 8**

**ENTIRE COUNTIES**

Putnam, Rockland, Westchester

**WAGES**

WAGES:(per hour)

07/01/2010

**BUILDING:**

Carpenter \$ 39.54  
 Carpenter Concrete Forms 39.54

**HEAVY/HIGHWAY:**

Carpenter \$ 39.54

**SUPPLEMENTAL BENEFITS**

(per hour worked)

**BUILDING AND HEAVY/HIGHWAY:**

Journeyman \$ 26.01

**OVERTIME PAY**

**BUILDING:**

See ( B, E, E2, Q, V\* ) on OVERTIME PAGE.

\*NOTE: Benefits paid at double time rate for Sundays & Holidays when worked. All other overtime benefits paid at straight time rate.

**HEAVY/HIGHWAY:**

See ( B, E, E2, Q\*, T\*\* ) on OVERTIME PAGE.

**HOLIDAY**

**BUILDING:**

Paid: See ( 1 ) on HOLIDAY PAGE.

Overtime: See ( 5, 6, 16, 25 ) on HOLIDAY PAGE.

**HEAVY/HIGHWAY:**

Paid: See ( 5, 6, 16, 25 ) on HOLIDAY PAGE.

Overtime: See ( 5\*, 6\*, 16\*\*, 25\*\* ) on HOLIDAY PAGE.

\*NOTE: For Holidays 5 and 6 code T applies, with

benefits at straight time rate.  
 \*\*NOTE: For Holidays 16 and 25 code Q applies, with  
 benefits at straight time rate.

**REGISTERED APPRENTICES**

(1)year terms at the following wages.  
 BUILDING-HEAVY/HIGHWAY:

1st	2nd	3rd	4th
\$ 18.94	\$ 22.05	\$ 27.45	\$ 31.10

Supplemental Benefits per hour worked:

Apprentices	
1st term	\$ 10.16
2nd term	13.31
3rd term	19.11
4th term	22.16

8-11B/HH

**Electrician**

**03/01/2011**

**JOB DESCRIPTION** Electrician

**DISTRICT 8**

**ENTIRE COUNTIES**

Orange, Putnam, Rockland

**PARTIAL COUNTIES**

Dutchess: Towns of Fishkill, East Fishkill, and Beacon.

**WAGES**

Per hour:

07/01/2010

Electrician Wireman/Technician

\$ 41.00\*\*

\*SHIFT DIFFERENTIAL: On Public Work in New York State when shift work is mandated either in the job specifications or by the contracting agency, the following rates apply:

Shift worked between 4:30pm & 12:30am	\$ 47.75*
Shift worked between 12:30am & 8:30am	\$ 53.25*

\*\*On jobs where employees are required to work from boatswain chairs, swinging scaffolds, etc., forty (40) feet or more above the ground, or under compressed air, using Scottair packs, gas masks or in shafts or tunnels, they shall receive an additional \$2.00 per hour above the regular straight time rate.

**SUPPLEMENTAL BENEFITS**

Per hour worked:

07/01/2010

Journeyman

\$ 20.97 plus  
6% of wage

**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6, 13, 15, 16, 25) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wages:

(6)month terms at the following percentage of Journeyman's wage.\*

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
30%	35%	40%	45%	50%	55%	65%	70%	75%	85%

\* Denotes average Journeyman Wireman rate of all wage zones

Supplemental Benefits per hour worked: 07/01/2010

1st & 2nd term	\$ 6.97	plus 6% of wage
3rd & 4th term	8.92	plus 6% of wage
5th & 6th term	10.87	plus 6% of wage
7th & 8th term	13.82	plus 6% of wage
9th & 10th term	16.72	plus 6% of wage

8-363/1

**Elevator Constructor**

**03/01/2011**

**JOB DESCRIPTION** Elevator Constructor

**DISTRICT 1**

**ENTIRE COUNTIES**

Dutchess, Orange, Putnam, Sullivan, Ulster

**PARTIAL COUNTIES**

Columbia: Only the Townships of Ancram, Clermont, Copake, Gallatin, Germantown, Livingston and Taghkanic.

Delaware: Towns of Andes, Bovina, Colchester, Davenport, Delhi, Harpersfield, Hemdon, Kortright, Meredith, Middletown, Roxbury, Hancock & Stamford

Greene: The Townships of Ashland, Catskill, Halcott, Hunter, Jewett, Lexington, Rattsville & Windham

Rockland: Only the Township of Stony Point.

Westchester: Only the Townships of Bedford, Lewisboro, Cortland, Mt. Kisco, North Salem, Pound Ridge, Somers and Yorktown.

**WAGES**

Per Hour	07/01/2010	01/01/2011
Mechanic	\$ 47.71	\$ 48.96
Helper	70% of Mechanic Wage Rate	70% of Mechanic Wage Rate

(\*\*) To be allocated at a later date

\*\*\*\* IMPORTANT NOTICE - EFFECTIVE 04/01/2009 \*\*\*\*

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 worked	07/01/2010	01/01/2011
Journeyman/Helper	\$ 20.035*	\$21.785*
	*Plus 6% of wages if less than 5 years service	
	*Plus 8% of wages if more than 5 years service	

**OVERTIME PAY**

See (D, O) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6, 15, 16) on HOLIDAY PAGE

Overtime: See (5, 6, 15, 16) on HOLIDAY PAGE

Note: When a paid holiday falls on Saturday, it shall be observed on Friday. When a paid holiday falls on Sunday, it shall be observed on Monday.

**REGISTERED APPRENTICES**

Wages per hour				
1st 6mo	2nd 6mo	2nd yr	3rd yr	4th yr
50 %	55 %	65 %	70 %	80 %

Supplemental Benefits per hour worked

Apprentices	07/01/2010	01/01/2011
	\$ 20.035	\$ 21.785
	+6%	+6%
	of wage	of wage

1-138

**Glazier**

**03/01/2011**

**JOB DESCRIPTION** Glazier

**DISTRICT** 9

**ENTIRE COUNTIES**

Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Sullivan, Ulster, Westchester

**WAGES**

Per hour: 07/01/2010

Glazier \$ 46.60

Scaffolding \$ 47.60

Repair & Maintenance:

Glazier \$ 26.35

\*Increase to be allocated at a later date

Repair & Maintenance- All repair & maintenance work on a particular building, whenever performed, where the total cumulative contract value is under \$100,000.00.

**SUPPLEMENTAL BENEFITS**

Per hour paid:

Journeyworker.... \$ 24.69

Glazier  
 Repair & Maintenance\*\* \$ 14.83

**OVERTIME PAY**

OVERTIME: See (C\*,D\*O) on OVERTIME PAGE.

\* Denotes if an optional 8th hour is required same will be at the regular rate of pay. If 9th hour is worked then both hours or more ( 8th and 9th or more ) will be at the double time rate of pay.

\*\* For Repair & Maintenance see ( B,F, P) on overtime page.

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6, 16, 25) on HOLIDAY PAGE

The Following are paid holidays for the Repair & Maintenance Class:

New Years day, Presidents day, Memorial day, Independents day, Labor day, Thanksgiving day, Day after Thanksgiving, and Christmas day.

**REGISTERED APPRENTICES**

Wage per hour:

(1) year terms at the following wage rates.

1st term... \$ 15.65  
 2nd term... \$ 23.33  
 3rd term... \$ 27.98  
 4th term... \$ 35.03

Supplemental Benefits:  
 (Per hour worked)

1st term.... \$ 11.89  
 2nd term.... \$ 17.33  
 3rd term.... \$ 19.08  
 4th term.... \$ 22.59

9-1281 (DC9 NYC)

**Insulator - Heat & Frost**

**03/01/2011**

**ENTIRE COUNTIES**

Dutchess, Orange, Putnam, Rockland, Westchester

**WAGES**

Per hour: 07/01/2010

Asbestos Worker \$ 44.44

Fire Stop Work\*  
Asbestos Worker \$ 29.49

\* Applies on all exclusive Fire Stop Work (When contract is for Fire Stop work only). No apprentices on these contracts only.

Note: Additional \$0.50 per hour for work 30 feet or more above floor or ground level.

On government mandated shift work of 3 days or more between Monday - Friday, the 2nd shift works 7 1/2 hrs and 3rd shift 7hrs and which shall account for a full 8hr day.  
In addition if the first eight 8hrs start between 10:00am and 5:00am then the wage must include an addition 20%. All hours in excess of 8hrs shall be paid at time and one half.  
On the last working day preceding Christmas and New Years day, workers shall work no later than 12:00 noon and shall receive 8 hrs pay.

**SUPPLEMENTAL BENEFITS**

(per hour paid)

Journeyman \$ 27.61

Fire Stop Work:  
Journeyman \$ 18.14

**OVERTIME PAY**

OVERTIME: See ( B ,E, Q, T\*, V ) on OVERTIME PAGE.

**HOLIDAY**

HOLIDAY:

Paid: See ( 1 ) on HOLIDAY PAGE.  
Overtime: See ( 2\*, 4, 6, 16, 25 ) on HOLIDAY PAGE.  
\*Note: Labor Day triple time if worked.

**REGISTERED APPRENTICES**

( 1 ) year terms at the following percentage of journeyman's rate.

1st	2nd	3rd	4th
\$27.30	\$29.45	\$31.59	\$35.86

Supplemental Benefits paid per hour paid:

Apprentices:	
1st term	\$ 17.05
2nd term	17.62
3rd term	19.47
4th term	22.19

**JOB DESCRIPTION** Ironworker

**DISTRICT** 8

**ENTIRE COUNTIES**

Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster

**WAGES**

Per hour: 07/01/2010

Structural	\$ 40.15
Reinforcing	40.15
Ornamental	40.15
Chain Link Fence	40.15

Shift Work: any irregular or off shift shall be paid 8 hours for 7 hours work.

**SUPPLEMENTAL BENEFITS**

Per hour paid:  
 Journeyman \$ 28.55

**OVERTIME PAY**

OVERTIME:.....See ( B\*, E\*\*, Q, V ) on OVERTIME PAGE.  
 \*Note: Double Time after 10 hours Monday thru Friday.  
 \*\*Note: On Saturdays, double time after 8 hours.

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6, 16) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wages:

(1)year terms at the following wage.

	1st	2nd	3rd	4th
	\$ 20.08	\$ 24.09	\$ 32.12	\$ 36.14

Supplemental Benefits per hour worked:

1st year	\$ 24.55
2nd year	25.35
3rd year	26.95
4th year	27.75

8-417

**Laborer - Building**

**03/01/2011**

**JOB DESCRIPTION** Laborer - Building

**DISTRICT 8**

**ENTIRE COUNTIES**

Putnam, Westchester

**WAGES**

07/01/2010

Laborer \$ 29.80

Laborer-Asbestos &  
 Hazardous Materials  
 Removal \$ 31.45

Upgrade/Material condition work plan for work performed during non-outage under a wage formula of 90% wage/100% fringe benefits at nuclear power plants.

Government Mandated Shiftwork... 2nd shift work 8hrs are paid for 9hrs  
 3rd shift work 8hrs are paid for 10hrs

**SUPPLEMENTAL BENEFITS**

( per hour worked )  
 Journeyman \$ 23.50

**OVERTIME PAY**

OVERTIME:..... See ( B, E, E2, Q, V\*) on OVERTIME PAGE.  
 \*Note: For Sundays and Holidays worked benefits are at the same premium as wages.

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6, 16, 25) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

(Hourly) terms at the following wage.

0-1000	1001-2000	2001-3000	3001-4000	4001
\$ 16.39	\$ 19.37	\$ 22.35	\$ 25.33	\$ 29.80

Supplemental Benefits per hour worked:

Apprentices

Level A	\$09.01
Level B	12.59
Level C	16.76
Level D	21.53
Level E	29.80

8-235/B

**Laborer - Heavy&Highway**

**03/01/2011**

**JOB DESCRIPTION** Laborer - Heavy&Highway

**DISTRICT 8**

**ENTIRE COUNTIES**

Putnam, Westchester

**WAGES**

-----  
 \*\*PUTNAM: APPLIES TO ALL HEAVY & HIGHWAY WORK EXCLUDING HIGHWAYS, STREETS, AND BRIDGES\*\*  
 -----

GROUP # 1: Blaster and Quarry Master, Gas Mechanic.

GROUP # 2: Burner, Drillers (jumbo, joy, wagon, air track, hydraulic), Curbs/ Asphalt Screedman/Raker.

GROUP # 3: Pavement Breakers, Jeeper Operator, Jack Hammer, Pneumatic Tools (all), Gas Driller, Guniting, Railroad Spike Puller, Pipelayer, Chain Saw, Deck winches on scows, Power Buggy Operator, Power Wheelbarrow Operator.

GROUP # 4: Concrete Laborers, Asph. Worker, Rock Scaler, Vibrator Oper., Bit Grinder, Air Tamper, Pumps, Epoxy/Waterproofer, Barco Rammer, Steel King, Concrete Grinder, Guide Rail-digging holes and placing concrete and demolition when not to be replaced, distribution of materials and tightening of bolts.

GROUP # 5: Drillers Helpers, Common Laborer, Trade Tenders, Signal Person, Pit Person, Truck Spotter, Powder Person, Landscape/Nursery Person, Dump Person, Temp. Heat.

GROUP # 6A: Asbestos/Toxic Waste Laborer-All removal (Roads, Tunnels, Landfills, etc.)

GROUP # 7: Blaster (WRECKING)

WAGES: (per hour)

07/01/2010  
 to 03/31/2011

GROUP I	\$ 34.35
GROUP II	33.00
GROUP III	32.60
GROUP IV	32.25
GROUP V	31.90
GROUP VI	35.80
GROUP VIA	33.90
GROUP VII	34.45
Bar Person, Burner	33.05
Steward, Lead	33.35
Bar Person Helper	32.85

Flagperson 25.55

SHIFT WORK: A shift premium will be paid on Public Work contracts for off-shift or irregular shift work when mandated by the NYS D.O.T. or other Governmental Agency contracts. Employees shall receive an additional 15% per hour above current rate for all regular and irregular shift work. Premium pay shall not include the 15% per hour differential.

**SUPPLEMENTAL BENEFITS**

Per hour:

Journeyman:

First 40 Hours  
 Per Hour Paid \$ 18.30  
 Over 40 Hours  
 Per Hour Worked 13.75

**OVERTIME PAY**

See (B, E, P, R, S) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6, 8, 9, 11, 12, 15, 25) on HOLIDAY PAGE

Overtime: See (5, 6, 8, 9, 11, 12, 15, 25) on HOLIDAY PAGE

NOTE: For 'Holiday Paid: 5,6,8,9,11,12,15,25'  
 For 'Holiday Overtime: 5,6' Code 'S' applies  
 For 'Holiday Overtime: 8,9,11,12,15,25' Code 'R' applies

**REGISTERED APPRENTICES**

Hourly terms at the following percentage of Group V wages.

1-499	500-1000	1001-2000	2001-3000	3001-4000
55%	55%	65%	75%	85%

Supplemental Benefits per hour worked:

Apprentice

1st term	None
2nd term	\$ 2.85
3rd term	3.85
4th term	4.85
5th term	5.60

8-60H/H

**Laborer - Heavy&Highway**

**03/01/2011**

**JOB DESCRIPTION** Laborer - Heavy&Highway

**DISTRICT 1**

**ENTIRE COUNTIES**

Putnam

**WAGES**

-----  
 APPLIES ONLY TO HIGHWAYS-STREETS and BRIDGES-  
 -----

GROUP # 1:

Flagperson, Placing & maintenance of all flares, cones, lights, signs, barricades, traffic patterns and all reflective type materials for traffic control, custodial work, traffic directors, temporary heat or light tenders, tool room.

GROUP # 2:

All Other Classifications not listed in Group # 1 or Group # 3

GROUP # 3:

Asphalt Raker, Asphalt Screedman, Drilling Equipment Only Where a Separate Air Compressor Unit Supplies Power, Laser Beam Operator, Metal Form Setters/Aligners (sidewalk), Blaster, Tunnel & Cassion.

WAGES per hour

07/01/2010

Group # 1	\$ 25.20
Group # 2	28.96



Group # 3 29.96

All employees working on a project that requires Hazwopper Certification will receive \$1.00 per hour over job classification rate of pay.

All employees who work an irregular work day that starts after 9:00 AM on a governmental mandated work schedule shall be paid an additional 15% per hour.

**SUPPLEMENTAL BENEFITS**

Per hour worked & paid Holidays

Journeyman \$ 19.95

**OVERTIME PAY**

See (B, E, E2, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6, 7, 8, 13, 25) on HOLIDAY PAGE

Overtime: See (5, 6, 7, 8, 13, 25) on HOLIDAY PAGE

Note: Whenever a holidays falls on Sunday, it will be observed on the following Monday.

**REGISTERED APPRENTICES**

Wages per hour

1000 HOUR YEAR TERMS

1st Term	\$ 15.15
2nd Term	17.85
3rd Term	20.60
4th Term	23.80

Supplemental Benefits per hour worked & Holidays

Apprentices \$ 11.00

1-1000h/b

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**Laborer - Tunnel**

**03/01/2011**

**JOB DESCRIPTION** Laborer - Tunnel

**DISTRICT 8**

**ENTIRE COUNTIES**

Putnam, Westchester

**WAGES**

FREE AIR

GROUP 1: Blaster

GROUP 2: Concrete Setters and Form Setters.

GROUP 3: Miners, Drill Runners, Air Tuggers & Chippers, Pneumatic Tools & Source of Airpower, Pumps & their Operation, Vibrator Operator.

GROUP 4: Puddlers.

GROUP 5: Chuck Tenders, Nippers, Concrete Laborers, Tunnel, Sewer & Water Pipe Reliners, Boring.

GROUP 6: Laborers.

GROUP 7: Powder Carriers, Signalmen.

GROUP 8: Brakemen.

GROUP 9: Outside Laborers.

GROUP 10: Powder Watchmen.

WAGES:(per hour) 07/01/2010

GROUP 1	\$39.02
GROUP 2	37.77
GROUP 3	37.27
GROUP 4	36.77
GROUP 5	36.52
GROUP 6	36.12
GROUP 7	35.92
GROUP 8	35.77
GROUP 9	35.62
GROUP 10	35.52

SHIFT PAY: Employees working on a second and third shift shall be paid an additional \$3.00 per hour. Premium pay shall not include the \$3.00 per hour differential. The shift premium will be paid on Public Work contracts when mandated by the NYSDOT or other Governmental Agency contracts. The shift premium will be paid on all other projects.

**SUPPLEMENTAL BENEFITS**

Per hour:

Journeyman:

First 40 Hours	
Per Hour Paid	\$ 18.30
Over 40 Hours-	
Per Hour Worked	13.75

**OVERTIME PAY**

See (B, E, P, R, S) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6, 8, 9, 11, 12, 15, 25) on HOLIDAY PAGE

Overtime: See (5, 6, 8, 9, 11, 12, 15, 25) on HOLIDAY PAGE

NOTE: For 'Holiday Paid: 5,6,8,9,11,12,15,25'  
 For 'Holiday Overtime: 5,6' Code 'S' applies  
 For 'Holiday Overtime: 8,9,11,12,15,25' Code 'R' applies

**REGISTERED APPRENTICES**

Hourly terms at the following percentage of Group 5 wages.

1-499	500-1000	1001-2000	2001-3000	3001-4000
55%	55%	65%	75%	85%

Supplemental Benefits per hour:

Apprentice:

1st term	none
2nd term	\$ 2.85
3rd term	3.85
4th term	4.85
5th term	5.60

8-60Tun

**Lineman Electrician**

**03/01/2011**

**JOB DESCRIPTION** Lineman Electrician

**DISTRICT 6**

**ENTIRE COUNTIES**

Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

**WAGES**

Per hour:

Includes Teledata Work within Ten feet of High Voltage Transmission Lines

	07/01/2010	05/02/2011	05/07/2012
Lineman/Tech./Welder	\$ 43.82	\$ 44.52	\$45.23
Cable splicer	43.82	44.52	45.23
Digging Machine Operator	39.44	40.07	40.71
Tractor Trailer Driver	37.25	37.84	38.45
Groundman/Truck Driver	35.06	35.62	36.18
Mechanic 1st Class	35.06	35.62	36.18
Flagman	26.29	26.71	27.14

Additional 1.00 per hr.for entire crew when a helicopter is used.

Above rates applicable on all overhead Transmission line work & Fiber Optic Cable where other construction trades are or have been involved. This applies to transmission line work only, not other construction.

Lineman/Technician/Welder	\$ 42.61	\$ 43.31	\$ 44.01
Digging Machine Operator	38.35	38.98	39.61
Tractor Trailer Driver	36.22	36.81	37.41

Groundman/Truck Driver	34.09	34.65	35.21
Mech. 1st Class	34.09	34.65	35.21
Flagman	25.57	25.99	26.41
Certified Welder/Pipe Type Cable	44.74	45.48	46.21
Cable Splicer pipe type cable	46.87	47.64	48.41

Additional 1.00 per hour for entire crew when a helicopter job.

Above rates apply on Switching Structures, Maintenance projects, Railroad Catenary install/maint, Third rail installation, Bonding of Rails and pipe type cable and installation of Fiber Optic Cable.

Lineman /Techician	\$ 41.32	\$ 42.02	\$ 42.72
Welder/Cable Splicer	41.32	42.02	42.72
Digging Machine Operator	37.19	37.82	38.45
Tractor Trailer Driver	35.12	35.72	36.31
Groundman/Truck Driver	33.06	33.62	34.18
Mechanic 1st Class	33.06	33.62	34.18
Flagman	24.79	25.21	25.63

Additional 1.00 per hr. for entire crew when a helicopter is used.

Above rates applicable on all overhead and underground distribution and maintenance work, and all overhead and underground transmission line work and the installation of Fiber Optic Cable where no other construction trades are or have been involved.

Lineman/Technician	\$ 41.32	\$ 42.02	\$ 42.72
Cable Splicer pipe type cable	45.45	46.22	46.99
Certified Welder pipe type	43.39	44.12	44.86
Digging Machine Operator	37.19	37.82	38.45
Tractor Trailer Driver	35.12	35.72	36.31
Mechanic 1st Class	33.06	33.62	34.18
Groundman/Truck Driver	33.06	33.62	34.18
Flagman	24.79	25.21	25.63

Additional \$ 1.00 per hour for entire crew when a helicopter is used.

Above rates applicable on all electrical sub-stations, switching structures, fiber optic cable and all other work not defined as "Utility outside electrical work"

**\*\* IMPORTANT NOTICE - EFFECTIVE 04/01/2009 \*\***

Four (4), ten (10) hour days may be worked at straight time during a week, Monday thru Thursday. Friday may be used as a make-up day.

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 worked including holidays listed below:

The following SUPPLEMENTAL benefits apply to all classification categories of CONSTRUCTION, TRANSMISSION and DISTRIBUTION.

\$ 15.00	\$ 16.50	\$ 18.25
*plus 7% of	*plus 7% of	*plus 7% of
hourly wage paid	hourly wage paid	hourly wage paid

**OVERTIME PAY**

See (B, E, Q,) on OVERTIME PAGE. Double time for all emergency work designated by the Dept. of Jurisdiction.

NOTE: THE FOLLOWING RATES WILL APPLY ON ALL CONTRACTING AGENCY MANDATED SHIFTS OF AT LEAST FIVE ( 5 ) DAYS DURATION WORKED BETWEEN THE HOURS LISTED BELOW:

1st shift	8:00 AM to 4:30 PM REGULAR RATE
2nd shift	4:30 PM to 1:00 AM REGULAR RATE PLUS 17.3 %
3rd shift	12:30 AM to 9:00 AM REGULAR RATE PLUS 31.4 %

**HOLIDAY**

Paid See ( 5, 6, 8, 13, 25 ) on HOLIDAY PAGE plus Gov. of NYS Election Day.

Overtime See ( 5, 6, 8, 13, 25 ) on HOLIDAY PAGE plus Gov. of NYS Election Day.

SUPPLEMENTS for holidays paid at straight time

**REGISTERED APPRENTICES**

( 1000 ) hr terms at the following percentage of Journeyman's wage.

1st	2nd	3rd	4th	5th	6th	7th
60%	65%	70%	75%	80%	85%	90%

Supplemental Benefits per hour worked:

The following SUPPLEMENTAL benefits apply to all classification categories of CONSTRUCTION, TRANSMISSION and DISTRIBUTION.

\$ 15.00	\$ 16.50	\$ 18.25
*plus 7% of hourly wage paid	*plus 7% of hourly wage paid	*plus 7% of hourly wage paid

\*NOTE: The 7% is based on the hourly wage paid, straight time rate or premium rate.

6-1249a

**Lineman Electrician - Teledata**

**03/01/2011**

**JOB DESCRIPTION** Lineman Electrician - Teledata

**DISTRICT 6**

**ENTIRE COUNTIES**

Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Westchester, Wyoming, Yates

**WAGES**

Per hour:

FOR WORK OUTSIDE BUILDING PROPERTY LINES.

	07/01/2010	01/01/2011
Cable Splicer	\$ 26.64	\$ 27.44
Installer/Repairman	25.29	26.05
Teledata Lineman	25.29	26.05
Technician/Equip Oper	25.29	26.05
Groundman	13.40	13.81

NOTE: EXCLUDES Teledata work within ten feet of High Voltage (600 volts and over) transmission lines. For this work please see LINEMAN.

**SUPPLEMENTAL BENEFITS**

Per hour worked:

\$ 4.43	\$ 4.43
*plus 3% of hourly wage paid	*plus 3% of hourly wage paid

\*NOTE: The 3% is based on the hourly wage paid, straight time rate or premium rate.

**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6, 16) on HOLIDAY PAGE

6-1249LT - Teledata

**Lineman Electrician - Traffic Signal Lighting**

**03/01/2011**

**JOB DESCRIPTION** Lineman Electrician - Traffic Signal Lighting

**DISTRICT 6**

**ENTIRE COUNTIES**

Columbia, Dutchess, Orange, Putnam, Rockland, Ulster

**WAGES**

Per hour:

For all Lighting and Traffic Signal Systems.

	07/01/2010	05/02/2011	05/07/2012
Lineman/Technician	\$ 38.80	\$39.26	\$39.50
Certified Welder	40.74	41.22	41.48
Digging Machine	34.92	35.33	35.55
Tractor Trailer driver	32.98	33.37	33.58
Groundman Truck Driver	31.04	31.41	31.60
Mechanic 1st Class	31.04	31.41	31.60
Flagman	23.28	23.56	23.70

Above rates applicable on ALL Lighting and Traffic Signal Systems and the installation, testing, operation, maintenance and repair of all traffic control and illumination projects, traffic monitoring systems, road weather information systems and the installation of Fiber Optic Cable.

**SUPPLEMENTAL BENEFITS**

Per hour worked including holidays listed below:

All classifications	\$ 15.00 *plus 6.5% of hourly wage paid	\$16.50 *plus 6.5% of hourly wage paid	\$18.25 *plus 6.5% of hourly wage paid
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\*NOTE: The 6.5% is based on the hourly wage paid, straight time rate or premium rate.  
 Supplements paid at STRAIGHT TIME rate for holidays.

**OVERTIME PAY**

See ( B, E, Q,) on OVERTIME PAGE. Note\* Double time for all emergency work designated by the Dept of Jurisdiction.

NOTE: THE FOLLOWING RATES WILL APPLY ON ALL CONTRACTING AGENCY MANDATED SHIFTS OF AT LEAST FIVE ( 5 ) DAYS DURATION WORKED BETWEEN THE HOURS LISTED BELOW:

1ST SHIFT	8:00 AM TO 4:30 PM REGULAR RATE
2ND SHIFT	4:30 PM TO 1:00 AM REGULAR RATE PLUS 17.3%
3RD SHIFT	12:30 AM TO 9:00 AM REGULAR RATE PLUS 31.4%

**HOLIDAY**

HOLIDAY:

Paid See ( 5, 6, 8, 13, 25 ) on HOLIDAY PAGE and Gov of NYS Election Day.  
 Overtime See ( 5, 6, 8, 13, 25 ) on HOLIDAY PAGE and Gov of NYS Election Day.

**REGISTERED APPRENTICES**

WAGES: (1000) hr terms at the following percentage of Journeyman Lineman/Technician wage.

1st	2nd	3rd	4th	5th	6th	7th
60%	65%	70%	75%	80%	85%	90%

SUPPLEMENTAL BENEFITS: Same as Journeyman/Technician.

6-1249aReg8LT

**Lineman Electrician - Tree Trimmer**

**03/01/2011**

**JOB DESCRIPTION** Lineman Electrician - Tree Trimmer

**DISTRICT 6**

**ENTIRE COUNTIES**

Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

**WAGES**

Per hour:

Applies to line clearance, tree work and right-of-way preparation on all new or existing energized overhead or underground electrical, telephone and CATV lines. This also would include stump removal near underground energized electrical lines, including telephone and CATV lines.

	07/01/2010	01/02/2011	01/01/2012
Tree trimmer	\$ 21.22	\$ 21.64	\$ 22.08
Equip Operator	18.72	19.09	19.48

Mechanic	18.72	19.09	19.48
Truck Driver	15.82	16.14	16.46
Ground person	12.99	13.25	13.51
Flag person	9.25	9.44	9.62

**SUPPLEMENTAL BENEFITS**

Per hour worked:

\$ 6.84	\$ 7.36	\$ 7.88
*plus 3% of hourly wage paid	*plus 3% of hourly wage paid	*plus 3% of hourly wage paid

Supplements paid at STRAIGHT TIME rate for holidays.

\*NOTE: The 3% is based on the hourly wage paid, straight time rate or premium rate.

**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6, 8, 15, 16, 25) on HOLIDAY PAGE  
 Overtime: See (5, 6, 8, 15, 16, 25) on HOLIDAY PAGE

6-1249TT

**Mason - Building**

**03/01/2011**

**JOB DESCRIPTION** Mason - Building

**DISTRICT 9**

**ENTIRE COUNTIES**

Bronx, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Westchester

**WAGES**

Per hour: 07/01/2010 12/06/2010

Building:  
 Tile Finisher \$ 38.61 +Additional \$ 1.18\*

\*Increase to be allocated at a later date

**SUPPLEMENTAL BENEFITS**

Journeyworker \$ 21.65 \$ 21.65

**OVERTIME PAY**

See (A, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6, 8, 10, 11, 15, 16) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wages:  
 (per hour paid)

( 750 hour ) terms at the following percentages of Journeyworkers wage.

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	65%	70%	75%	85%	90%	95%

Supplemental Benefits:  
 (per hour paid)

(750) hour terms at the following percentages of Journeyworkers wage:

Apprentices.

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	65%	70%	75%	85%	90%	95%

9-7/88-tf

**Mason - Building**

**03/01/2011**

**JOB DESCRIPTION** Mason - Building

**DISTRICT 9**

**ENTIRE COUNTIES**

Bronx, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Westchester

**WAGES**

Per hour: 07/01/2010

**Building:**

Tile Setters \$ 47.51

**SUPPLEMENTAL BENEFITS**

Journeyworker: \$ 25.40

**OVERTIME PAY**

See (A, E, Q, \*V) on OVERTIME PAGE

\*Applicable to Shift Work ONLY

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6, 8, 10, 11, 15, 16) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wage per hour:

(750 hr)terms at the following wage rates.

Term:	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
Hours:	1-750	751-1500	1501-2250	2251-3000	3001-3750	3751-4500	4501-5250	5251-6000	6001-6750
Wages:	\$23.91	26.53	30.18	31.60	34.09	35.69	40.79	45.71	47.10

Supplemental Benefits per hour paid:

Term:	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
Hours:	1-750	751-1500	1501-2250	2251-3000	3001-3750	3751-4500	4501-5250	5251-6000	6001-6750
Supps.	\$12.55	13.57	13.57	15.79	16.95	18.99	21.18	23.55	25.81

9-7/52

**Mason - Building**

**03/01/2011**

**JOB DESCRIPTION** Mason - Building

**DISTRICT 8**

**ENTIRE COUNTIES**

Putnam, Rockland, Westchester

**PARTIAL COUNTIES**

Orange: Only the Township of Tuxedo.

**WAGES**

Per hour 07/01/2010

Bricklayer	\$ 37.55
Cement Mason Bldg	37.55
Plasterer/Stone Mason	37.55
Pointer/Caulker	37.55

Additional \$1.00 per hour for power saw work

Additional \$0.50 per hour for swing scaffold or staging work

**SUPPLEMENTAL BENEFITS**

Per hour paid

Journeyman \$ 27.43

**OVERTIME PAY**

OVERTIME:

Cement Mason See ( D, E2, O ) on OVERTIME PAGE.

All Others See ( B, E, E2, Q ) on OVERTIME PAGE.

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wages per hour

One Half Year terms at the following percentage of Journeyman's wage

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	60%	65%	70%	75%	80%	85%

Supplemental Benefits per hour paid

1st & 2nd terms	\$ 15.11
All others	27.43

8-5wp-b

**Mason - Heavy&Highway**

**03/01/2011**

**JOB DESCRIPTION** Mason - Heavy&Highway

**DISTRICT 8**

**ENTIRE COUNTIES**

Putnam, Rockland, Westchester

**PARTIAL COUNTIES**

Orange: Only the Township of Tuxedo.

**WAGES**

Per hour

07/01/2010

Bricklayer	\$ 38.05
Cement Mason	38.05
Marble/Stone Mason	38.05
Plasterer	38.05
Pointer/Caulker	38.05

Additional \$1.00 per hour for power saw work

Additional \$0.50 per hour for swing scaffold or staging work

**SUPPLEMENTAL BENEFITS**

Per hour paid

Journeyman	\$ 27.43
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**OVERTIME PAY**

See (B, O) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6, 15, 25) on HOLIDAY PAGE

Overtime: See (5, 6, 15, 25) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wages per hour

One Half Year terms at the following percentage of Journeyman's wage

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	60%	65%	70%	75%	80%	85%

Supplemental Benefits per hour paid

1st and 2nd terms	\$ 15.11
All others	27.43

8-5WP-H/H

**Operating Engineer - Building**

**03/01/2011**

**JOB DESCRIPTION** Operating Engineer - Building

**DISTRICT 8**

**ENTIRE COUNTIES**

Putnam, Westchester

**PARTIAL COUNTIES**



Dutchess: (\*NOTE: This description is in effect up to 08/31/2006). \*South of a West/East line through Dutchess County starting at the Northern Boundary of the City of Poughkeepsie.

(\*\*NOTE: This change takes effect on 09/01/2006)\*\*The part of Dutchess (defined by the northern boundary line of City of Poughkeepsie, then due east to Route 115, then north along Route 115 to Bedell Road, then east along Bedell Road to VanWagner Road, then north along VanWagner Road to Bower Road, then east along Bower Road to Rte. 44, and along Rt. 44 east to route 343, then along route 343 east to the northern boundary of Town of Dover Plains, and east along the northern boundary of Town of Dover Plains to the border line of the State of Connecticut, and bordered on the west by the middle of the Hudson River).

## **WAGES**

GROUP I: Cranes(All Types), Boom Trucks, Cherry Pickers(All Types), Clamshell Crane, Derrick(Stone-Stell), Dragline, Franki Pile Rig or similar Hydraulic Cranes, Pile Drivers(All Types).

\*All Tower Cranes, all Climbing Cranes and all Cranes of 100 ton capacity or greater.

GROUP I-A: Barber Green Loader-Euclid Loader, Bulldozer, Carrier-Trailer Horse, Concrete Cleaning Decontamination Machine Operator, Concrete-Portable Hoist, Conway or Similar Mucking Machines, Elevator & Cage, Excavators all types, Front End Loaders, Gradall, Shovel, Backhoe, etc.(Crawler or Truck), Heavy Equipment Robotics Operator/Mechanic, Hoist Engineer-Material, Hoist Portable Mobile Unit, Hoist-Single, Double or Triple Drum, Horizontal Directional Drill Locator, Horizontal Directional Drill Operator, and Jersey Spreader, Letourneau or Tournapull(Scrapers over 20 yards Struck), Lift Slab Console, etc., Lull HiLift or Similar, Maintenance Engineer, Master Environmental Maintenance Mechanics, Mucking Machines Operator/Mechanic or Similar Type, Overhead Crane, Pavement Breaker(Air Ram), Paver(Concrete), Post Hole Digger, Power House Plant, Road Boring Machine, Road Mix Machine, Ross Carrier and Similar Machines, Rubber tire double end backhoes and similar machines, Scoopmobile-Tractor-Shovel Over 1.5 yards, Shovel (Tunnels Side Boom, Spreader (Asphalt Telephies(Cableway), Tractor Type Demolition Equipment, Trenching Machines-Vermeer Concrete Saw Trencher and Similar, Ultra High Pressure Waterjet Cutting Tool System, Vacuum Blasting Machine operator/mechanic, Winch Truck A Frame).

GROUP I-B: Compressor (Steel Erection), Mechanic (Outside All Types, Negative Air Machine (Asbestos Removal), Pulse Meter, Push Button (Buzz Box), Elevator, Welder.

GROUP II-A: Bulldozer D6 and Under, Compactor Self-Propelled, Grader, Machines Pulling Sheep's Foot Roller, Roller 4 ton and over, Scrapers-20 yards Struck and Under, Vibratory Rollers, etc.

GROUP III-A: Asphalt Plant, Boiler (High Pressure), Concrete Mixing Plants, Concrete Pump, Fireman, Forklift, Forklift (Electric) Joy Drill or similar Tractor Drilling Machine, Loader-1 1/2 yards and under, Locomotive (All Sizes), MixerConcrete-21E and over, Portable Asphalt Plant, Portable Batch Plant, Portable Crusher, Quarry Master, StoneCrusher, Well Drilling Machine, Well Point System, Concrete Buggy, One Yard and Up Ride on Dumper, Benford or Similar, Bobcat.

GROUP III-B: Compressor Over 125 cu.Feet, Conveyor Belt Machine Regardless of Size, Compressor Plant, Ladder Hoist, Lighting Unit (Portable & Generator), Stud Machine, Welding Machine (Steel Erection & Excavation).

GROUP IV-A: Air Tractor Drill, Batch Plant, Bending Machine, Concrete Breaker, Concrete Spreader, Curb Cutter Machine, Farm Tractor (all types), Finishing Machine-Concrete, Material Hopper-sand stone-cement, Mixer-Concrete-Under 21E, Mulching Grass Spreader, Pump-Gypsum etc, Fine Grading Machine, Roller under 4 Ton Hepa Vac Clean Air Machine, Spreading and Fine Grading Machine, Steel Cutting Machine, Siphon Pump-air-steam, Tar Joint Machine, Turbo Jet Burner or Similar Equipment, Vibrator (1 to 5), Fine Grading Machine, Roof Hoist (Tugger Hoist), Television Cameras for Water, Sewer, Gas etc. Pump-Plaster-Grout-Fireproofing.

GROUP IV-B: Compressor to 125 feet, Dust Collector, Heater all types, Pump, Pump Station (Water and Sewer), Steam Jenny, Sweeper, Chipper, Mulcher.

GROUP V-A: Concrete Saw, Oiler Fuel Truck, Oiler Grease Truck.

GROUP V-B: Mechanics Helper, Oiler, Stock Attendant, Paint Compressor, Welder's Helper, Motorized Roller (walk behind).

GROUP VI-A: Master Mechanic, Assistant Master Mechanic, Helicopter Hoist Operator, Helicopter Pilot, Helicopter Signal Man, Welder Certified.

GROUP VI-B: Utility Man, Warehouse Man, Second Engineer, Cable Splicer.

WAGES: (per hour)

07/01/2010

GROUP I	\$ 50.15
*Tower Cranes	56.72
GROUP I-A	43.81
GROUP I-B	40.34
GROUP II-A	42.25
GROUP III-A	40.68
GROUP III-B	38.70
GROUP IV-A	40.27
GROUP IV-B	33.94
GROUP V-A	38.70
GROUP V-B	36.64
GROUP VI-A	
Master Mechanic	46.02
Asst.Master Mechanic	39.24
Helicopter Hoist Oper	44.58
Helicopter Pilot	50.88
Helicopter Signal Man	39.86
Welder Certified	43.01
GROUP VI-B	
Utility Man	34.73
Warehouse Man	36.44
Second Engineer	36.51
Cable Splicer	40.00

An additional 20% to wage when required to wear protective equipment on hazardous/toxic waste projects.

Engineers operating cranes with booms 100 feet but less than 149 feet in length will be paid an additional \$2.00 per hour. Engineers operating cranes with booms 149 feet or over in length will be paid an additional \$3.00 per hour.

Loader operators over 5 cubic yard capacity additional .50 per hour.

Shovel operators over 4 cubic yard capacity additional \$1.00 per hour.

**SUPPLEMENTAL BENEFITS**

(per hour)

07/01/2010

Journeyman	\$15.96 Per hour paid.
	+7.40 Per hour worked.
	+ .80 per hour on all hours paid

**OVERTIME PAY**

OVERTIME:..... See ( D, O, U\*, V ) on OVERTIME PAGE.

**HOLIDAY**

HOLIDAY:

Paid:..... See ( 5, 6, 7, 8, 11, 12 ) on HOLIDAY PAGE.

Overtime:..... See ( 5, 6, 7, 8, 11, 12 ) on HOLIDAY PAGE.

\* Note: For Holiday codes 5 & 6, code T applies.

Note: If employees are required to work on Easter Sunday they shall be paid at the rate of triple time.

8-137B

**Operating Engineer - Heavy&Highway**

**03/01/2011**

**JOB DESCRIPTION** Operating Engineer - Heavy&Highway

**DISTRICT 9**

**ENTIRE COUNTIES**

Dutchess, Putnam, Westchester

**WAGES**

NOTE: Also covers Feasibility and Preliminary Design surveying, Line and Grade surveying for Inspection or Supervision of Construction when preformed under a Consulting Engineer Agreement.

- 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 Crew
- Catorgories cover GPS & Underground Suveying

Per Hour: 07/01/2010

Party Chief	\$ 52.79
Instrument Man	38.02
Rodman	32.67

**SUPPLEMENTAL BENEFITS**

Per Hour: 07/01/2010

All Catorgories

Straight Time: \$ 21.95 + \$3.61 (taxable)

Premium:

Time & 1/2 \$ 35.52

Double Time \$ 45.57

**OVERTIME PAY**

See (B, \*E, Q) on OVERTIME PAGE

\* Doubletime paid on the 9th hour on Saturday.

**HOLIDAY**

Paid: See (5, 6, 7, 11, 12) on HOLIDAY PAGE

Overtime: See (5, 6, 7, 11, 12) on HOLIDAY PAGE

9-15Dh

**Operating Engineer - Heavy&Highway**

**03/01/2011**

**JOB DESCRIPTION** Operating Engineer - Heavy&Highway

**DISTRICT 8**

**ENTIRE COUNTIES**

Putnam, Westchester

**PARTIAL COUNTIES**

Dutchess: (\*NOTE: This description is in effect up to 08/31/2006). \*South of a West/East line through Dutchess County starting at the Northern Boundary of the City of Poughkeepsie.

(\*\*NOTE: This change takes effect on 09/01/2006)\*\*The part of Dutchess (defined by the northern boundary line of City of Poughkeepsie, then due east to Route 115, then north along Route 115 to Bedell Road, then east along Bedell Road to VanWagner Road, then north along VanWagner Road to Bower Road, then east along Bower Road to Rte. 44, and along Rt. 44 east to route 343, then along route 343 east to the northern boundary of Town of Dover Plains, and east along the northern boundary of Town of Dover Plains to the border line of the State of Connecticut, and bordered on the west by the middle of the Hudson River).

**WAGES**

GROUP I: Boom Truck, Cherry Picker, Clamshell, Crane, (Crawler, Truck), Dragline, Rough Terrain Crane.

GROUP I-A: Auger, Auto Grader, Dynahoe and Dual purpose and similar machines, Barber Green Loader-Euclid Loader or similar type machine, boat captain, boring machine(all types), Bulldozer-All Sizes, Central Mix Plant Operator, Cherry Picker(Cableway)-Hydraulic, chipper (all types), close circuit t.v., Compactor with Blade, Concrete Portable Hoist, C.M.I. or Similar, Conway or Similar Mucking Machines, Gradall, Shovel Backhoe, etc. Grader, Derrick (Stone-Steel) Elevator & Cage, Front End Loaders over 1 1/2yds Hoist Single, Double, Triple Drum, Hoist Portable Mobile Unit, Hoist Engineer Concrete(Crane-Derrick-Mine Hoist), Hoist Engineer-Material, Hydraulic Boom, Letourneau or Tournapull (Scrapers over 20 yds struck), Mucking Machines, Overhead Crane, Paver (concrete) Pulsemeter, Push Button (Buss Box) Elevator, Road Mix Machines, Ross Carrier and similar, Shovels (Tunnels), SideBoom, Spreader (asphalt), Scoopmobile-Tractor-Shovel over 1 1/2 yards, Trenching Machines, Telephies-Vermeer Concrete Saw Trencher and/or Similar, Tractor type Demolition Equipment, Whirly,P-811 Track Renewal Machine-Similiar, certified Welder.

GROUP I-B: Road Paver-Asphalt.

GROUP II-A: Balast regulators, Compactor Self Propelled, Cow Tracks, Fusion Machine, Rail Anchor Machines, Scrapers-20 yds truck and under, Switchtampers, Vibrator Roller, etc., Roller 4 ton and over, Welder.

GROUP II-B: Mechanic-All Types.

GROUP III: Air Tractor Drill, Asphalt Plant, Batch Plant, Boiler (High Pressure), Concrete Breaker, Concrete Pump, Concrete Spreader, Curb Cutter Machine, Farm Tractor (All Types), Finishing Machine (Concrete) Fine Grading Machine, Fireman, Forklift, Forklift (Electric) John Henry drill or similar, Joy Drill or similar Tractor Drilling Machine, Loader 1 1/2 yards and under, Locomotive(All Sizes), Maintenance Engineer, Machine Pulling Sheep's Foot Roller, Material Hopper, Mixer Concrete-21E and over, Mulching Grass Spreader, Portable Plant, Portable Batch Plant, Portable Crusher, Powerhouse Plant, Quarry Master, Roller under 4 ton, Spreading and Fine Grading Machine, Steel Cutting Machine, Stone Crusher, Sweeper, Turbo Jet Burner or Similar, Well Drilling Machine, Winch Truck, "A" Frame Truck.

GROUP IV-A: Service Man (Fuel Truck), Service Man (Grease Truck).

GROUP IV-B: Compressor-Compressor Plant-Paint Compressor-Steel Erection, Conveyor Belt Machine, Lighting Unit (Portable & Generator), Pilot/Assistant Engineer/2 seated, Pumps-Pump Station-Water-Sewer-Gypsum-Plaster, etc., Pump Truck(Sewer Jet or Similar), Roller-Motorized (Walk Behind), Welding Machine Steel Erection Excavation), Well Point System, Welder's Helper, Mechanic's Helper, Bending Machine, Dust Collector, Mixer Concrete under 21-E, Heater all types, Steam Jenny, Stock Room Attendant, Siphon Pump-Air-Steam, Tar Joint Machine, Vibrator (1 to 5), Compressor Truck mounted (2-6).

GROUP V-A: Master Mechanic, Master Mechanic Asst., Helicopter Hoist Operator, Engineer-All Tower Cranes-All Climbing Cranes and all cranes of 100 ton capacity or greater(3900 Manitowac or similar), Hoist Engineer(Steel), Engineer-Pile Driver, Welder-Certified, Helicopter Pilot, Helicopter Signalman, Jersey Spreader, Pavement Breaker(Air Ram), Post Hole Digger.

GROUP V-B: Concrete Saw, Oiler, Utility Man.

WAGES: (per hour)

07/01/2010

Group I	\$ 49.99
Group I-A	44.14
Group I-B	45.70
Group II-A	42.29
Group II-B	43.60
Group III	41.56
Group IV-A	37.83
Group IV-B	32.56
Group V-A	
Master Mechanic/Asst	46.70
Helicopter Hoist Oper	45.26
Engineer All Tower, Climbing and Cranes of 100 Tons	56.55
Hoist Engineer(Steel)	50.52
Engineer(Pile Driver)	53.90
Helicopter Pilot	50.52
Helicopter Signalman	42.09
Jersey Spreader, Pavement Breaker. (Air Ram) Post Hole Digger	42.47
Group V-B	
Utility Man	31.02
Concrete Saw	35.40
Oiler	30.54

SHIFT DIFFERENTIAL: On all NYS D.O.T. and other Governmental mandated off-shift work, an additional 15% of wage on all hours and including overtime.

Engineers operating cranes with booms 100 feet but less than 149 feet in length will be paid an additional \$2.00 per hour over the rate listed in the Wage Schedule. Engineers operating cranes with booms 149 feet or over in length will be paid an additional \$3.00 per hour over the rate listed in the Wage Schedule. Operators of shovels with a capacity over (5) cubic yards shall be paid an additional \$.50 per hour over the rate listed in the Wage Schedule. Operators of loaders with a capacity over 4 cubic yards shall be paid an additional \$1.50 per hour.

**SUPPLEMENTAL BENEFITS**

(per hour)

07/01/2010

Journeyman: \$ 16.02 on all hours paid.  
 PLUS \$7.65 limited to 1st 40 hours worked.  
 PLUS .70 per hour on all hours worked

**OVERTIME PAY**

OVERTIME:..... See ( B, E, Q, U\* ) on OVERTIME PAGE.

**HOLIDAY**

HOLIDAY:

Paid:..... See ( 5, 6, 7, 8, 11, 12 ) on HOLIDAY PAGE.

Overtime:.... See ( 5, 6, 7, 8, 11, 12 ) on HOLIDAY PAGE.

\* Note: For Holiday codes 5 & 6, code U applies.

Note: If employees are required to work on Easter Sunday they shall be paid at the rate of triple time.

**REGISTERED APPRENTICES**

(1)year terms at the following rate.

07/01/2010

1st term	\$20.78
2nd term	24.93
3rd term	29.09
4th term	33.24

Supplemental Benefits per hour:

Apprentices: \$ 16.02 on all hours paid.  
PLUS .70 per hour on all hours worked.

8-137HH

**Operating Engineer - Heavy&Highway - Tunnel**

**03/01/2011**

**JOB DESCRIPTION** Operating Engineer - Heavy&Highway - Tunnel

**DISTRICT 8**

**ENTIRE COUNTIES**

Putnam, Westchester

**PARTIAL COUNTIES**

Dutchess: (\*NOTE: This description is in effect up to 08/31/2006). \*South of a West/East line through Dutchess County starting at the Northern Boundary of the City of Poughkeepsie.

(\*\*NOTE: This change takes effect on 09/01/2006)\*\*The part of Dutchess (defined by the northern boundary line of City of Poughkeepsie, then due east to Route 115, then north along Route 115 to Bedell Road, then east along Bedell Road to VanWagner Road, then north along VanWagner Road to Bower Road, then east along Bower Road to Rte. 44, and along Rt. 44 east to route 343, then along route 343 east to the northern boundary of Town of Dover Plains, and east along the northern boundary of Town of Dover Plains to the border line of the State of Connecticut, and bordered on the west by the middle of the Hudson River).

**WAGES**

GROUP I: Boom Truck, Cherry Picker, Clamshell, Crane(Crawler, Truck), Dragline, Rough Terrain Crane.

GROUP I-A: Auger, Auto Grader, Dynahoe & Dual purpose & similar machines, Barber Green Loader-Euclid Loader or similar type machine, Boat Captain, Boring Machine(all types), Bull Dozer-all types, Central Mix Plant Operator, Cherry Picker(Cableway or hydraulic), Chipper-all types, Close Circuit T.V., Compactor with Blade, Concrete Portable Hoist, C.M.I. or similar, Conway or similar Mucking Machine, Crane(Crawler or Truck) dragline, Gradall, Shovel Backhoe, etc. Grader, Derrick(Stone-Steel), Elevator & Cage(materials or passengers), Front End Loaders over 1 1/2 yards, Hoist Single, Double, Triple Drum, Hoist Portable Mobile Unit, Hoist Engineer-Concrete(Crane-Derrick-Mine Hoist), Hoist Engineer-Material, Hydraulic Boom, Letourneau or Tournapull(Scrapers over 20 yards struck), Log Skidder, Moveable Concrete Barrier Transfer & Transport Vehicle, Mucking Machines. Overhead Crane, Paver(concrete), Pulsemeter, Push Button(Buzz Box)Elevator, Raise Boring Machine, Road Mix Machines. Robot Hammer(Brock or similar), Ross Carrier and similar machines, Shovels(Tunnels), Side Boom, Slip Form Machine, Spreader(Asphalt), Scoopmobile-Tractor-Shovel over 1 1/2 yards, Trenching Machines, Telephies-Vermeer Concrete Saw Trencher and/or similar, Tractor type demolition equipment, Whirly.

GROUP I-B: Road Paver(Asphalt).

GROUP II-A: Balast Regulators, Compactor Self-propelled, Cow Tracks, Fusion Machine, Rail Anchor Machines, Roller 4 ton and over, Scrapers (20 yard struck and under), Switch Tampers, Vibratory Roller, etc., Welder.

GROUP II-B: Mechanic(outside) all types, Shop Mechanic.

GROUP III: Air Tractor Drill, Asphalt Plant, Batch Plant, Boiler (High Pressure), Concrete Breaker, Concrete Pump, Concrete Spreader, Curb Cutter Machine, Farm Tractor(all types), Finishing Machine(Concrete) Fine Grading Machine, Firemen, Forklift, Forklift(Electric), John Henry Drill or similar, Joy Drill or similar Tractor Drilling Machine, Loader 1 1/2 yards and under, Locomotive(all sizes), Maintenance Engineer, Machine Pulling Sheeps Foot Roller, Material Hopper, Mixer Concrete(21-E & over), Mulching Grass Spreader, Portable Asphalt Plant, Portable Batch Plant, Portable Crusher, Powerhouse Plant, Quarry Master, Roller under 4 ton, Spreading and Fine Grading Machine, Steel Cutting Machine, Stone Crusher, Sweeper, Turbo Jet Burner or similar, Well Drilling Machine, Winch Truck "A' Frame.

GROUP IV-A: Service Man(Fuel Truck), Service Man(Grease Truck).

GROUP IV-B: Bending Machine, Compressor-Compressor Plant-Paint, Compressor-Steel Erection, Compressor Truck Mounted(2-6), Conveyor Belt Machine, Dust Collector, Heater(all types), Lighting Unit(portable & generator), Mixer Concrete under 21-E, Pilot/Assistant Engineer/2 seated, Pumps-Pump Station-Water-Sewer-Gypsum-Plaster, etc., Pump Truck(Sewer Jet or similar), Roller Motorized(Walk behind), Steam Jenny, Stock Room Attendant, Syphon Pump-Air-Stream, Tar Joint Machine, Vibrator(1 to 5), Welding Machine, Welders Helper.

GROUP V-A: Engineer(Pile Driver), Engineer(all Tower Cranes, all Climbing Cranes & all cranes of 100 ton capacity or greater), Helicopter Hoist Operator, Helicopter Pilot, Helicopter Signalman, Hoist Engineer(Steel-Sub Structure), Engineer-Pile Driver, Jersey-Spreader, Pavement breaker(Air Ram), Master Mechanic, Asst. Master Mechanic, Post Hole Digger, Welder-Certified.

GROUP V-B: Concrete Saw, Oiler, Utility Man.

WAGES: (per hour)

07/01/2010

GROUP I	\$49.99
GROUP I-A	44.14
GROUP I-B	45.70
GROUP II-A	42.29
GROUP II-B	43.60
GROUP III	41.56
GROUP IV-A	37.83
GROUP IV-B	32.56
GROUP V-A	
Engineer-Pile Driver	53.90
Engineer-Cranes	56.55
Helicopter Pilot	50.52
Helicopter Signalman	42.09
Helicopter Hoist Opr	45.26
Hoist Engineer	50.52
Jersey Spreader, Pavement Breaker(Air Ram), Post Hole Digger	42.47
Master Mechanic	46.70
Asst. Master Mechanic	
Welder-Certified	
GROUP V-B	
Concrete Saw	35.40
Oiler	30.54
Utility Man	31.02

An additional 20% to wage when required to wear protective equipment on hazardous/toxic waste projects. Operators required to use two buckets pouring concrete on other than road pavement shall receive \$0.50 per hour over scale. Engineers operating cranes with booms 100 feet but less than 149 feet in length will be paid an additional \$2.00 per hour. Engineers operating cranes with booms 149 feet or over in length will be paid an additional \$3.00 per hour. Operators of shovels with a capacity over (4) cubic yards shall be paid an additional \$1.00 per hour. Operators of loaders with a capacity over (5) cubic yards shall be paid an additional \$0.50 per hour.

**SUPPLEMENTAL BENEFITS**

(per hour)

Journeyman:	07/01/2010	
	\$ 16.02	all hours paid.
	+ 7.65	1st 40 hours worked
	+ .70	for all hours worked.

**OVERTIME PAY**

See (D, O, \*U, V) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6, 7, 8, 11, 12) on HOLIDAY PAGE  
 Overtime: See (5, 6, 7, 8, 11, 12) on HOLIDAY PAGE

\* Note: For Holiday codes 5 & 6, code U applies.

Note: If employees are required to work on Easter Sunday, they shall be paid at the rate of triple time.

**REGISTERED APPRENTICES**

(1)year terms at the following rates.

07/01/2010

1st year Apprentice  
 50% of above rate  
 20.78 per hr.

2nd year Apprentice  
 60% of above rate  
 24.93 per hr.

3rd year Apprentice  
 70% of above rate  
 29.09 per hr.

4th year Apprentice  
 80% of above rate  
 33.24 per hr.

Supplemental Benefits per hour:

Apprentices:

07/01/2010  
 \$ 16.02 all hours paid.  
 +.70 for all hours worked.

8-137Tun

**Operating Engineer - Marine Construction**

**03/01/2011**

**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

07/01/2010

**CLASS A**

Operator, Leverman,  
 Lead Dredgeman

\$ 32.89

**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

\$ 28.49

Certified Welder,  
 Boat Operator(licensed)

\$ 26.84

**CLASS C**

Drag Barge Operator, Steward, Mate, Assistant Fill Placer, Welder (please add)	\$ 26.14  \$ 0.06
Boat Operator	\$ 25.29
CLASS D Shoreman, Deckhand, Rodman, Scowman, Cook, Messman, Porter/Janitor Oiler(please add)	\$ 21.09  \$ 0.09

**SUPPLEMENTAL BENEFITS**

Per Hour:

THE FOLLOWING SUPPLEMENTAL BENEFITS APPLY TO ALL CATEGORIES

07/01/2010

All Classes A & B  
  
(overtime hours add)

\$ 8.05 plus  
7% of straight  
time wage  
\$ 0.63

All Class C  
  
(overtime hours add)

\$ 7.75 plus  
7% of straight  
time wage  
\$ 0.48

All Class D  
  
(overtime hours add)

\$ 7.45 plus  
7% of straight  
time wage  
\$ 0.23

**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

**Painter**

**03/01/2011**

**JOB DESCRIPTION** Painter

**DISTRICT 9**

**ENTIRE COUNTIES**

Bronx, Kings, Nassau, New York, Putnam, Queens, Richmond, Suffolk, Westchester

**WAGES**

(Per hour) 07/01/2010

Brush / Taper	\$ 36.50
Spray & Scaffold	39.50
Fire Escape	39.50
Decorator	39.50
Paperhanger/Wall Coverer	37.50

**SUPPLEMENTAL BENEFITS**

( per hour worked ) 07/01/2010

Paperhanger	\$ 28.25
All others	23.14

**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)

Appr 1st term...	\$ 13.25
Appr 2nd term...	18.25
Appr 3rd term...	21.90
Appr 4th term...	29.20

Spplmental benefis:  
 (per Hour worked)

Appr 1st term...	\$10.57
Appr 2nd term...	14.11
Appr 3rd term...	17.00
Appr 4th term...	22.34

9-NYDC9-B/S

**Painter - Bridge & Structural Steel**

**03/01/2011**

**JOB DESCRIPTION** Painter - Bridge & Structural Steel

**DISTRICT 9**

**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) 07/01/2010 10/01/2010

**STEEL:**

Bridge Painting	\$ 45.50	\$ 46.25
Power Tool/Spray	\$ 51.50	\$ 52.25

Shift Work: Where project specifications and/or contract provide for night work outside the regular hours of work, and said night work is performed on a second shift, which is separate from the first crew, the night shift employees shall be paid an additional 10% of the regular wage up to seven (7) hours, after which they shall be paid at time and one half the regular wage. If only a night shift is employed, the employees shall be paid at time and one half.

Note: 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:

	07/01/2010	10/01/2010
Journeyworker	\$ 29.90*	\$ 31.04*
	\$ 29.90**	\$ 31.04**
Hourly Rate after 40 hours from May 1st to Nov. 15th	\$6.00 only	\$6.75 only
Hourly Rate after 50 hours from Nov. 16th to April 30th	\$6.00 only	\$6.75 only

\*For the period of May 1st to November 15th:

This rate shall be paid up to maximum of forty (40) hours worked per week. For all hours exceeding 40, the hourly rate shall drop to the hourly rate shown above by date.

EXCEPT 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.

\*\*For the period of November 16th to April 30th:

This rate shall be paid up to a maximum of fifty (50) hours worked per week. For all hours exceeding 50, the hourly rate shall drop to the hourly rate shown above by date.

**OVERTIME PAY**

See (A, F, R) on OVERTIME PAGE

\*Note: When calculating overtime pay for the Power Tool/ Spray classification, add Six dollars to the hourly overtime rate calculated for the "Bridge Painting" classification.

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (4, 6) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

(wage per hour Worked):

(1) year terms at the following percentage of Journeyworkers wage.

Apprentices:	1st	2nd	3rd
07/01/2010	40%	60%	80%

Supplemental Benefits:

1st Term: Same percentage as used for wage

2nd and 3rd term: Same percentage as used for wage

9-DC-9/806/155-BrSS

**Painter - Line Striping**

**03/01/2011**

**JOB DESCRIPTION** Painter - Line Striping

**DISTRICT 9**

**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):	07/01/2010
Striping-Machine Operator*	\$ 25.53
Linerman Thermoplastic	\$ 30.79

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

**SUPPLEMENTAL BENEFITS**

Per hour paid:	07/01/2010
Journeyworker:	\$ 9.97 + 7% of wage

**OVERTIME PAY**

See (B, E, P, 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

9-8A/28A-LS

**Painter - Metal Polisher**

**03/01/2011**

**JOB DESCRIPTION** Painter - Metal Polisher

**DISTRICT 9**

**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**

	07/01/2010
Metal Polisher	\$ 25.60*

\*Note: All workers shall be paid an additional premium in an amount equal to twenty (20%) percent of their basic straight time rate of pay for all time worked on hanging scaffolds and on standing scaffolds while working more than 34 feet off the ground. Such premium are to be paid on top of their straight time or overtime, whichever is applicable. This also applies to employees erecting scaffolding.

**SUPPLEMENTAL BENEFITS**

Per Hour: 07/01/2010

Journeyworker: \$ 11.12

**OVERTIME PAY**

See (B, E, Q, 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**

55% of Basic Polisher Rate

9-8A/28A-MP

**Plumber**

**03/01/2011**

**JOB DESCRIPTION** Plumber

**DISTRICT** 8

**ENTIRE COUNTIES**

Putnam, Westchester

**WAGES**

Per hour: 07/01/2010

Plumber and Steamfitter \$ 46.28

**SUPPLEMENTAL BENEFITS**

Per hour:  
 Journeyman \$ 23.30  
 PLUS \$2.29 per hr. worked\*\*

\*\* Not Subject to Overtime.

**OVERTIME PAY**

OVERTIME:... See ( B,E\*,Q,V ) on OVERTIME PAGE.

\* NOTE:Time and one half for the first 8 hours on Saturday. Additional hours on Saturday to be paid at double time.

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6, 8, 16, 25) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

(1)year terms at the following wages.

1st Term	\$ 17.02
2nd Term	19.56
3rd Term	22.54
4th Term	32.46
5th Term	34.88

Supplemental Benefits per hour:

Apprentices	
1st term	\$10.02
	+ .98 per hour worked
2nd term	11.09
	+ 1.10 per hour worked
3rd term	13.21
	+ 1.35 per hour worked
4th term	16.68
	+ 1.98 per hour worked
5th term	17.72
	+ 1.98 per hour worked

8-21.1-ST

**Plumber - HVAC / Service**

**03/01/2011**

**JOB DESCRIPTION** Plumber - HVAC / Service

**DISTRICT 8**

**ENTIRE COUNTIES**

Dutchess, Putnam, Westchester

**PARTIAL COUNTIES**

Delaware: Only the townships of Middletown and Roxbury

Ulster: Entire County(including Walkill and Shawangunk Prisons) except for remainder of Town of Shawangunk and Towns of Plattekill, Marlboro, and Wawarsing.

**WAGES**

Per hour:	07/01/2010	11/01/2010	01/01/2011
HVAC Service	\$ 34.78		\$36.06
Jobbing & Alteration*	\$ 32.60	\$ 32.56	

\*Repairs, replacements and alteration work is any repair or replacement of a present plumbing system that does not change existing roughing or water supply lines.

**SUPPLEMENTAL BENEFITS**

Per hour worked:

	07/01/2010	11/01/2010	1/01/2011
Journeyman HVAC Service	\$ 13.80 per hour paid + 2.29 per hour worked		\$ 16.00 per hour paid + .98 per hour worked
Journeyman Jobbing Alterations	\$ 14.85 per hour paid + .83 per hour worked	\$ 19.57 per hour paid + 2.73 per hour worked	

**OVERTIME PAY**

See (B, \*E, Q, V) on OVERTIME PAGE

Note: Time and one half for the first eight hours on Saturdays.

Additional hours on Saturday to be paid at double time.

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6, 8, 16, 25) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

HVAC SERVICE

**REGISTERED APPRENTICES**

(1)year terms at the following wages.

	1st yr.	2nd yr.	3rd yr.	4th yr.	5th yr.
07/01/2010	\$ 16.60	\$ 19.18	\$ 24.09	\$ 29.32	31.31
01/01/2011	\$ 17.07	\$ 19.80	\$ 24.84	\$ 30.31	32.44

Supplemental Benefits per hour worked:

Apprentices	07/01/2011	01/01/2011
1st term	\$ 13.67 per hour paid + 0.83 per hour worked	\$ 13.67 per hour paid + .98 per hour worked
2nd term	\$ 13.87 per hour paid + 0.83 per hour worked	\$ 14.49 per hour paid + .98 per hour worked
3rd term	\$ 14.17 per hour paid + 0.83 per hour worked	\$ 14.91 per hour paid + .98 per hour worked
4th term	\$ 14.47 per hour paid + 0.83 per hour worked	\$ 15.35 per hour paid + .98 per hour worked
5th term	\$ 14.67 per hour paid + 0.83 per hour worked	\$ 15.67 per hour paid + .98 per hour worked

**JOBGING & ALTERATIONS**

**REGISTERED APPRENTICES**

(1)year terms at the following wages.

	1st yr.	2nd yr.	3rd yr.	4th yr.	5th yr.
07/01/2010	\$ 13.14	\$ 17.48	\$ 20.88	\$ 24.11	\$ 27.92
11/01/2010	\$ 15.98	\$ 17.64	\$ 18.70	\$ 26.40	\$ 27.76

Supplemental Benefits per hour worked:

Apprentices	07/01/2010	11/01/2010
1st term	\$ 8.16 per hour paid + 0.43 per hour worked	\$ 6.14 per hour paid + .60 per hour worked
2nd term	\$ 10.66 per hour paid + 0.79 per hour worked	\$ 7.06 per hour paid + .93 per hour worked
3rd term	\$ 11.76 per hour paid + 0.89 per hour worked	\$ 10.17 per hour paid + 1.05 per hour worked
4th term	\$ 14.20 per hour paid + 1.25 per hour worked	\$ 13.38 per hour paid + 1.46 per hour worked
5th term	\$ 15.19 per hour paid + 1.60 per hour worked	\$ 14.36 per hour paid + 1.90 per hour worked

NOTE: This listing is the combined, updated information for 21.1-SF/Re/AC and 21.2-SF/Re/AC, as of 8/1/09.

8-21.1&2-SF/Re/AC

**Plumber - Jobbing & Alterations**

**03/01/2011**

**JOB DESCRIPTION** Plumber - Jobbing & Alterations

**DISTRICT 8**

**ENTIRE COUNTIES**

Putnam, Westchester

**WAGES**

Per hour:

Journeyman:	07/01/2010 \$ 35.72
-------------	------------------------

Repairs, replacements and alteration work is any repair or replacement of a present plumbing system that does not change existing roughing or water supply lines.

**SUPPLEMENTAL BENEFITS**

Per hour:

Journeyman	\$ 19.57 per hour paid + 2.29 per hour worked
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**OVERTIME PAY**

See (B, \*E, Q, V) on OVERTIME PAGE

Note: Time and one half for the first eight hours on Saturdays.

Additional hours on Saturday to be paid at double time.

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6, 16, 25) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

(1) year terms at the following wages.

1st year	\$ 15.89
2nd year	17.60
3rd year	18.66
4th year	26.35
5th year	27.77

Supplemental Benefits per hour:

Apprentices	
1st year	\$ 5.95 per hour paid .43 per hour worked
2nd year	7.06 per hour paid .79 per hour worked
3rd year	10.17 per hour paid .89 per hour worked
4th year	13.52 per hour paid 1.23 per hour worked
5th year	17.12 per hour paid 1.60 per hour worked

8-21.3-J&A

**Roofer**

**03/01/2011**

**JOB DESCRIPTION** Roofer

**DISTRICT 9**

**ENTIRE COUNTIES**

Bronx, Dutchess, Kings, New York, Orange, Putnam, Queens, Richmond, Rockland, Sullivan, Ulster, Westchester

**WAGES**

Per Hour: 07/01/2010

Roofer/Waterproofer \$ 37.50

**SUPPLEMENTAL BENEFITS**

Journeyworker \$ 27.37

**OVERTIME PAY**

See (B, H) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6, 13, 25) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

( 1 ) year terms at the following percentage of Journeyworkers hourly wage.

1st	2nd	3rd	4th
35%	50%	60%	75%

Supplemental Benefits:

Per hour paid at the following term percentage of Journeyworkers.

Apprentice:

1st	2nd	3rd	4th
\$3.87	\$13.86	\$16.50	\$20.50

9-8R

**Sheetmetal Worker**

**03/01/2011**

**JOB DESCRIPTION** Sheetmetal Worker

**DISTRICT 8**

**ENTIRE COUNTIES**

Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster, Westchester

**WAGES**

SheetMetal Worker 07/01/2010  
 \$ 40.42

**SUPPLEMENTAL BENEFITS**

Journeyman \$ 29.64

**OVERTIME PAY**

OVERTIME:.. See ( B, E, Q, ) on OVERTIME PAGE.

\*Note: For Sundays or Holidays worked, HOURLY WAGE is double the total of the hourly wage plus the hourly benefit paid all in wages. (Benefits are included in the wages).

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6, 8, 13, 16, 23) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

1st	2nd	3rd	4th	5th	6th	7th	8th
\$14.79	\$16.76	\$ 18.67	\$ 20.58	\$ 22.39	\$ 24.29	\$ 26.19	\$ 28.53

Supplemental Benefits per hour:

Apprentices

1st term	\$ 13.27
2nd term	14.81
3rd term	16.40
4th term	17.98
5th term	19.67
6th term	21.27
7th term	22.87
8th term	24.03

8-38

**Sprinkler Fitter**

**03/01/2011**

**JOB DESCRIPTION** Sprinkler Fitter

**DISTRICT 1**

**ENTIRE COUNTIES**

Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster, Westchester

**WAGES**

Per hour

07/01/2010

Sprinkler \$ 39.40  
 Fitter

**SUPPLEMENTAL BENEFITS**

Per hour worked

Journeyman \$ 18.85

**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
 Overtime: See (5, 6) on HOLIDAY PAGE

Note: When a holiday falls on Sunday, the following Monday shall be considered a holiday and all work performed on either day shall be at the double time rate. When a holiday falls on Saturday, the preceding Friday shall be considered a holiday and all work performed on either day shall be at the double time rate.

**REGISTERED APPRENTICES**

Wages per hour

One Half Year terms at the following percentage of Journeyman's wage

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
50%	50%	55%	60%	65%	70%	75%	80%	85%	90%

Supplemental Benefits per hour worked

07/01/2010

1st & 2nd terms \$ 8.41  
 3rd & 4th terms \$ 13.35

All others \$ 18.85

1-669.2

**Survey Crew Consulting**

**03/01/2011**

**JOB DESCRIPTION** Survey Crew Consulting

**DISTRICT 9**

**ENTIRE COUNTIES**

Bronx, Kings, Nassau, New York, Putnam, Queens, Richmond, Suffolk, Westchester

**PARTIAL COUNTIES**

Dutchess: Only the portion south of the north city line in Poughkeepsie.

**WAGES**

Feasibility and preliminary design surveying, line and grade surveying for inspection or supervision of construction when performed under a Consulting Engineer agreement.

Categories cover GPS & underground surveying.

WAGES: (per hour)

07/01/2010

Survey Rates:

Party Chief.....	\$ 33.70
Instrument Man..	\$ 28.38
Rodman.....	\$ 25.02

**SUPPLEMENTAL BENEFITS**

Per Hour 07/01/2010

All Crew Members: \$ 11.70

**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

**Teamster - Building / Heavy&Highway**

**03/01/2011**

**JOB DESCRIPTION** Teamster - Building / Heavy&Highway

**DISTRICT 8**

**ENTIRE COUNTIES**

Putnam, Westchester

**WAGES**

GROUP A: Straight Trucks (6-wheeler and 10-wheeler), A-frame, Winch, Dynamite Seeding, Mulching, Agitator, Water, Cement (all types), Suburban, Station Wagons, Cars, Pick Ups, any vehicle carrying materials of any kind.

GROUP B: Tractor & Trailers (all types).

GROUP BB: 14 Wheeler Tractor & Trailer.

GROUP C: Low Boy (carrying equipment).

GROUP D: Fuel Trucks, Tire Trucks.

GROUP E: Off-road Equipment (over 40 tons): Athey Wagons, Belly Dumps, Articulated Dumps, Trailer Wagons.

GROUP F: Off-road Equipment (over 40 tons) Euclid,DJB.

GROUP G: Off-road Equipment (under 40 tons) Athey Wagons, DJB, Belly Articulated Dumps, Trailer Wagons.

GROUP H: Off-road Equipment(under 40 tons), Euclid.

GROUP HH: Off-road Equipment(under 40 tons)D.J.B.

GROUP I: Off-road Equipment(under 40 tons)Darts.



**GROUP II: Off-road Equipment(under 40 tons)RXS.**

WAGES:(per hour)

07/01/2010

GROUP A	\$ 36.58
GROUP B	37.20
GROUP BB	36.70
GROUP C	39.33
GROUP D	37.03
GROUP E	37.58
GROUP F	38.58
GROUP G	37.58
GROUP H	37.95
GROUP HH	38.33
GROUP I	38.08
GROUP II	38.45

Note: Fuel truck operators on construction sites addit. \$5.00 per day.  
For work on hazardous/toxic waste site addit. 20% of hourly rate.

Shift Differential:NYS DOT or other Governmental Agency contracts shall receive a shift differential of Fifteen(15%)percent above the wage rate

**SUPPLEMENTAL BENEFITS**

Per hour paid:

Journeyman

First 40 hours	\$20.45
For the 41st- 45th Hour	\$7.98

Note: Employees entitled to 1 week of paid vacation based on group classification after 90 days of employment.

**OVERTIME PAY**

See (B, E, P, \*R) on OVERTIME PAGE

**HOLIDAY**

Paid: See (5, 6, 8, 9, 11, 12, 15, 25) on HOLIDAY PAGE  
Overtime: See (5, 6, 8, 9, 11, 12, 15, 25) on HOLIDAY PAGE  
\*Note: Holiday codes 5 & 6, if worked, are overtime code R.  
Holiday codes 7,8,11,12, when worked, receive straight time wage for working, plus Holiday pay.

8-456

**Welder**

**03/01/2011**

**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 07/01/2010

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.

- ( 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
- ( B ) Time and one half of the hourly rate after 8 hours per day
- ( 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
- ( 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
- ( 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
- ( 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
- ( 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.
- ( 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)9.

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. Does this project comply with the Wicks Law involving separate bidding? YES  NO

10. 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 02/24/2011**

**Article 8**

AGENCY	Fiscal Officer	SSN/FEIN	EMPLOYER NAME	EMPLOYER DBA NAME	ADDRESS	DEBARMENT START DATE	DEBARMENT END DATE
DOL	AG	****1355	4-A GENERAL CONSTRUCTION CORP.		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	DOL	****7478	A & T GENERAL CONSTRUCTION INC.		3 ALAN B SHEPARD PLACE YONKERS NY 10705	12/11/2006	12/11/2011
DOL	NYC		A & T IRON WORKS INC		25 CLIFF STREET NEW ROCHELLE NY 10801	06/15/2010	06/15/2015
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	****5804	AAR CO ELECTRIC INC		5902 AVENUE N BROOKLYN NY 11234	03/20/2009	03/20/2014
DOL	DOL	****9095	ABDO TILE CO		6179 EAST MOLLOY ROAD EAST SYRACUSE NY 13057	06/25/2010	06/25/2015
DOL	DOL	****9095	ABDO TILE COMPANY		6179 EAST MOLLOY ROAD EAST SYRACUSE NY 13057	06/25/2010	06/25/2015
DOL	DOL	****0635	ABOVE ALL PUMP REPAIR CORP		360 KNICKERBOCKER AVENUE BATAVIA NY 11716	10/20/2008	10/20/2013
DOL	NYC	****8758	ACC CONSTRUCTION CORP.		6 EAST 32ND ST - 7TH FL NEW YORK NY 10016	05/25/2006	05/25/2011
DOL	NYC	****5022	ACE DRYWALL SYSTEMS INC.		194 ASHLAND PLACE BROOKLYN NY 11217	03/06/2008	03/06/2013
DOL	AG	****8219	ACTIVE CABLING INC		C/O FRANK DECAPITE 7 SYCAMORE ROAD DRWOODBURY NY 11797	10/02/2008	10/01/2013
DOL	DOL		ADAM A CEMERYS		2718 CURRY ROAD SCHENECTADY NY 12303	07/08/2010	07/08/2015
DOL	DOL	****3012	ADAM DECKMAN	DECKMAN PAINTING	154 POND VIEW PARKWAY ROCHESTER NY 14612	04/16/2007	04/16/2012
DOL	DOL		ADAM'S FLOOR COVERING LLC		2718 CURRY ROAD SCHENECTADY NY 12303	07/08/2010	08/08/2015
DOL	DOL		AFFORDABLE PAINTING PLUS		367 GREEVES ROAD NEW HAMPTON NY 10958	10/01/2010	10/01/2015
DOL	DOL		ALL TOWNS MECHANICAL	BARRY MORRIS	18 EAST SUNRISE HIGHWAY FREEPORT NY 11758	01/21/2008	01/21/2013
DOL	DOL	****3101	ALLSTATE CONCRETE CUTTING, INC.		635 MIDLAND AVENUE GARFIELD NJ 07026	07/09/2007	07/09/2012
DOL	DOL	****8534	ALPHA INTERIORS INC		513 ACORN STREET/ SUITE C DEER PARK NY 11729	05/27/2010	05/27/2015
DOL	DOL	****8291	AMIR'S VISION INC		230 PRATT STREET BUFFALO NY 14204	09/17/2008	09/17/2013
DOL	AG		ANASTASIA ANTHOULIS	AKA STACEY GOUZOS	131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	DOL	****0860	ANDREA STEVENS	STEVENS TRUCKING	2458 EAST RIVER ROAD CORTLAND NY 13045	01/23/2008	01/23/2013
DOL	AG		ANTHONY BRANCA		700 SUMMER STREET STAMFORD CT	11/24/2009	11/24/2014
DOL	DOL		ANTHONY POSELLA		30 GLEN HOLLOW ROCHESTER NY 14622	10/19/2009	10/19/2014
DOL	DOL		ANTHONY T RINALDI		C/O CRAIN CONSTRUCTION CO KINDERHAMACK RDKACKENSACK NY 07061	10/02/2008	10/02/2013
DOL	DOL		ANTHONY TAORMINA		215 MCCORMICK DRIVE BOHEMIA NY 11716	05/20/2009	05/20/2014
DOL	DOL		ANTHONY ULIANO		22 GRIFFEN COURT MILLER PLACE NY 11746	10/26/2010	10/26/2015
DOL	AG	****7327	ANTHOS CONTRACTING CORP		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	DOL	****2725	ARAGONA CONSTRUCTION CORP		5755 NEWHOUSE ROAD EAST AMHERST NY 14051	10/10/2007	10/10/2012
DOL	DOL	****8688	ARC MECHANICAL CORP		215 MCCORMICK DRIVE BOHEMIA NY 11716	05/20/2009	05/20/2014
DOL	DOL	****8482	ARGO CONTRACTING CORP		5752 WEST WEBB ROAD YOUNGSTOWN OH 44515	05/21/2008	05/21/2013
DOL	NYC	****5804	ARIE BAR	C/O AAR CO ELECTRIC INC	5902 AVENUE N BROOKLYN NY 11234	03/20/2009	03/20/2014
DOL	DOL		ARTHUR C OSUORAH		PO BOX 1295 BUFFALO NY 14215	02/15/2008	02/15/2013
DOL	DOL	****8027	ARTHUR DESIGN ENGINEERS & ASSOCIATES		PO BOX 1295 BUFFALO NY 14215	02/15/2008	02/15/2013
DOL	DOL	****9336	ARTIERI SPECIALTIES LLC	SWITZER SALES	107 STEVENS STREET LOCKPORT NY 14094	11/04/2009	11/04/2014

## NYS DOL Bureau of Public Work Debarment List 02/24/2011

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DOL	DOL	****2993	AST DRYWALL & ACOUSTICS INC		46 JOHN STREET - STE 711 NEW YORK NY 10038	12/16/2008	12/16/2013
DOL	DA	****5761	AZTEC PLUMBING & HEATING CORP		153 BAYWOODS LANE BAY SHORE NY 11706	03/19/2007	03/19/2012
DOL	DOL	****7828	BALLAGH GENERAL CONTRACTING INC		250 KNEELAND AVENUE YONKERS NY 10705	07/09/2007	07/09/2012
DOL	NYC		BASIL ROMEO		243-03 137TH AVENUE ROSEDALE NY 11422	03/25/2010	03/25/2015
DOL	DOL		BEATRICE ORTEGA		764 BRADY AVE - APT 631 BRONX NY 10462	05/21/2008	05/21/2013
DOL	DOL		BENNY VIGLIOTTI		C/O LUVIN CONSTRUCTION CO P O BOX 357CARLE PLACE NY 11514	03/15/2010	03/15/2015
DOL	DOL		BERNADETTE GORMALLY		250 KNEELAND AVENUE YONKERS NY 10705	07/09/2007	07/09/2012
DOL	NYC		BERNARD COHNEN		193 HARWOOD PLACE PARAMUS NJ 07652	05/14/2008	05/14/2013
DOL	DOL	****9890	BETTY JOE FRAZIER	NOBLE CONSTRUCTION GROUP	23960 WHITE ROAD WATERTOWN NY 13601	02/14/2008	02/14/2013
DOL	DOL		BIAGIO CANTISANI		200 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	12/04/2014
DOL	DOL	****0818	BLASTEC INC	MILLER SANDBLASTING & PAINTING	121 LINCOLN AVENUE ROCHESTER NY 14611	02/21/2008	02/21/2013
DOL	DOL	****8501	BLOCKHEAD CONCRETE & PAVING INC		P O BOX 71 CHEEKTOWAGA NY 14225	09/03/2008	09/03/2013
DOL	NYC	****8377	BOSPHORUS CONSTRUCTION CORPORATION		3817 KINGS HIGHWAY-STE 1D BROOKLYN NY 11234	07/08/2010	07/08/2015
DOL	DOL		BRIAN HOXIE		2219 VALLEY DRIVE SYRACUSE NY 13207	12/04/2009	12/04/2014
DOL	DOL	****4311	C & F SHEET METAL CORP		201 RICHARDS STREET BROOKLYN NY 11231	02/25/2009	02/24/2014
DOL	DOL	****9286	CALI BROTHERS INC		1223 PARK STREET PEEKSKILL NY 10566	09/12/2007	09/12/2012
DOL	DOL		CANTISANI & ASSOCIATES LTD		220 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	12/04/2014
DOL	DOL		CARMODY CONCRETE CORP		220 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	12/04/2014
DOL	DOL		CARMODY ENTERPRISES LTD		220 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	12/04/2014
DOL	DOL		CARMODY INC		220 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	12/04/2014
DOL	DOL		CARMODY MASONRY CORP		220 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	12/04/2014
DOL	DOL		CARMODY"2" INC		220 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	12/04/2014
DOL	DOL	****9721	CATENARY CONSTRUCTION CORP		112 HUDSON AVENUE ROCHESTER NY 14605	02/14/2006	10/20/2014
DOL	DOL	****7924	CBI CONTRACTING INCORPORATED		2081 JACKSON AVENUE COPIAGUE NY 11726	06/03/2010	06/03/2015
DOL	DOL		CHARLES MURDOUGH		203 KELLY DRIVE EAST AURORA NY 14052	03/26/2008	03/26/2013
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	07/09/2015
DOL	DOL		CHESTER A BEDELL		1233 WALT WHITMAN ROAD MELVILLE NY 11747	04/29/2008	04/29/2013
DOL	DOL		CHRISTOPHER NICHOLSON		91 NEWMAN PLACE BUFFALO NY 14210	10/19/2006	10/19/2011
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	****5329	CNY MECHANICAL ASSOCIATES INC		P O BOX 250 EAST SYRACUSE NY 13057	11/06/2008	11/06/2013
DOL	DOL	****6866	COMMERCIAL SYSTEM CONSTRUCTION		91 NEWMAN PLACE BUFFALO NY 14210	10/19/2006	10/19/2011
DOL	DOL	****5740	CORTLAND GLASS COMPANY INC		336 TOMPKINS STREET CORTLAND NY 13045	02/02/2010	10/21/2015
DOL	DOL	****7794	CRAIN CONSTRUCTION COMPANY INC		ONE KINDERHAMACK ROAD HACKENSACK NJ 07061	10/02/2008	10/02/2013
DOL	DOL		CRAIN CONSTRUCTION OF NEW JERSEY		ONE KINDERHAMACK ROAD HACKENSACK NJ 07061	10/02/2008	10/02/2013

**NYSDOL Bureau of Public Work Debarment List 02/24/2011**

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DOL	DOL		CRAIN CONSTRUCTION OF NEW YORK INC		C/O CRAIN CONSTRUCTION CO ONE KINDERHAMACK ROAD HACKENSACK NJ 07061	10/02/2008	10/02/2013
DOL	DOL		CRAIN CONTRACTING COMPANY		ONE KINDERHAMACK ROAD HACKENSACK NJ 07061	10/02/2008	10/02/2013
DOL	NYC	****8777	CROSSLAND ELECTRICAL SYSTEMS INC		846 EAST 52ND STREET BROOKLYN NY 11203	12/19/2008	12/29/2013
DOL	DOL	****0115	CROW AND SUTTON ASSOCIATES INC		949 GROVESIDE ROAD BUSKIRK NY 12028	08/27/2008	08/27/2013
DOL	DOL	****4266	CRYSTAL INTERIOR CONTRACTING INC		922 CRESCENT STREET BROOKLYN NY 11208	05/21/2008	05/21/2013
DOL	DOL	****1804	CUSTOM GARDEN LANDSCAPING INC		283 NORTH MIDDLETOWN ROAD PEARL RIVER NY 10965	09/28/2009	09/28/2014
DOL	DOL	****6339	D J FLOORS INC		9276 VIA CIMATO DRIVE CLARENCE CENTER NY 14032	08/29/2007	08/29/2012
DOL	DOL		D JAMES SUTTON		949 GROVESIDE ROAD BUSKIRK NY 12028	08/27/2008	08/27/2013
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	DOL		DARIN ANDERSON		134-25 166 PLACE #5E JAMAICA NY 11434	08/07/2008	08/07/2013
DOL	DOL		DARREN MAYDWELL		115 LEWIS STREET YONKERS NY 10703	05/12/2009	05/12/2014
DOL	DOL		DEANNA J REED		5900 MUD MILL RD-BOX 949 BREWERTON NY 13029	09/02/2008	09/02/2013
DOL	DOL	****3012	DECKMAN PAINTING		154 POND VIEW PARKWAY ROCHESTER NY 14612	04/16/2007	04/16/2012
DOL	DOL	****2311	DELCON CONSTRUCTION CORP		220 WHITE PLAINS ROAD TARRYTOWN NY 10591	08/27/2009	08/27/2014
DOL	DOL	****6971	DELPHI PAINTING AND DECORATING INC		1445 COMMERCE AVENUE BRONX NY 10461	10/09/2007	10/09/2012
DOL	DOL	****3538	DELTA CONTRACTING PAINTING AND DESIGN INC		75 MCCULLOCH DRIVE DIX HILLS NY 11746	10/19/2010	10/19/2015
DOL	DOL		DESMOND CHARLES		922 CRESCENT STREET BROOKLYN NY 11208	05/21/2008	05/21/2013
DOL	DOL	****7157	DG PIPELINE INC		312 HALSEYVILLE ROAD ITHACA NY 14850	09/06/2006	09/06/2011
DOL	DOL		DIMITEIUS KASSIMIS		152-65 11TH AVENUE WHITESTONE NY 11357	05/22/2008	05/22/2013
DOL	DOL		DONALD NOWAK		10 GABY LANE CHEEKTOWAGA NY 14227	10/15/2009	10/15/2014
DOL	DOL		DONALD SCHWENDLER		9276 VIA CIMATO DRIVE CLARENCE CENTER NY 14032	08/29/2007	08/29/2012
DOL	DOL	****6148	DOT CONSTRUCTION OF NY INC		765 BRADY AVE - APT 631 BRONX NY 10462	05/21/2008	05/21/2013
DOL	DOL		DOUGLAS MCEWEN		121 LINCOLN AVENUE ROCHESTER NY 14611	02/21/2008	02/21/2013
DOL	DOL		DOUGLAS S GRIFFEN		312 HALSEYVILLE ROAD ITHACA NY 14850	09/06/2006	09/06/2011
DOL	DOL		DRAGOLJUB RADOJEVIC	61 WILLET ST - SUITE 14	PASSAIC NJ 07055	12/03/2009	07/09/2015
DOL	NYC	****6176	E N E L ELECTRICAL CORP		1107 MCDONALD AVENUE BROOKLYN NY 11230	07/30/2010	07/30/2015
DOL	DOL		EDWARD SUBEH		1 CHELSEA COURT ATLANTIC CITY NJ 08401	10/06/2008	10/06/2013
DOL	DOL	****3554	ELITE BUILDING ENTERPRISES INC		34-08 PARKWAY DRIVE BALDWIN NY 11510	07/01/2008	07/21/2013
DOL	AG	****3233	EMEIS & EMEIS GENERAL CONTRACTING CORP		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	DOL	****0780	EMES HEATING & PLUMBING CONTR		5 EMES LANE MONSEY NY 10952	01/20/2002	01/20/3002
DOL	DOL	****6101	ENHANCED DATA COM INC		75 SHERBROOK ROAD NORTH BABYLON NY 11704	07/01/2010	07/01/2015
DOL	DOL		ERROL L ALLEN		134-25 166 PLACE #5E JAMAICA NY 11434	08/07/2008	08/07/2013
DOL	DOL		ESCO INSTALLERS LLC		1 CHELSEA COURT ATLANTIC CITY NJ 08401	10/06/2008	10/06/2013
DOL	DOL	****0329	FAULKS PLUMBING HEATING & AIR CONDITIONING INC		3 UPTON STREET HILTON NY 14468	06/10/2008	06/10/2013
DOL	DOL		FERNANDO GOMEZ		201 RICHARDS STREET BROOKLYN NY 11231	02/25/2009	02/25/2014

NYS DOL Bureau of Public Work Debarment List 02/24/2011

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DOL	DOL	****0768	FISHER CONCRETE INC		741 WELSH ROAD JAVA CENTER NY 14082	04/08/2009	04/08/2014
DOL	DOL	****0115	FOXCROFT NURSERIES INC		949 GROVESIDE ROAD BUSKIRK NY 12028	08/27/2008	08/27/2013
DOL	DOL		FRANCIS (FRANK) OSCIER		3677 SENECA STREET WEST SENECA NY 14224	09/03/2008	09/03/2013
DOL	NYC		FRANK (FRANCIS) OSCIER		3677 SENECA STREET WEST SENECA NY 14224	09/03/2008	09/03/2013
DOL	NYC		FRANK BAKER		24 EDNA DRIVE SYOSSET NY 11791	05/14/2008	05/14/2013
DOL	DOL		FRANK J MERCANDO	C/O MERCANDO CONTRACTIN G CO INC	134 MURRAY AVENUE YONKERS NY 10704	11/22/2008	11/22/2013
DOL	DOL		FRANK J MERCANDO		134 MURRAY AVENUE YONKERS NY 10704	12/11/2009	12/11/2014
DOL	DOL	****0128	FRANK J TUCEK & SON INC		92 NORTH ROUTE 9W CONGERS NY 10920	01/29/2007	01/29/2012
DOL	NYC	****5498	FRANK OCOCELLA		68 GAYLORD ROAD SCARSDALE NY 10583	02/16/2011	02/16/2015
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	06/25/2015
DOL	DOL	****9202	G & M PAINTING ENTERPRISES INC		13915 VILLAGE LANE RIVERVIEW MI 48192	02/05/2010	02/05/2015
DOL	DOL	****9832	G A FALCONE CONSTRUCTION INC		253 COMMONWEALTH AVENUE BUFFALO NY 14216	08/07/2007	08/07/2012
DOL	DOL	****7088	GBA CONTRACTING CORP		4015 21ST AVENUE ASTORIA NY 11105	01/11/2008	01/11/2013
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	AG		GEORGE BEGAKIS		57-16 157TH STREET FLUSHING NY 11355	10/04/2006	10/04/2011
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	10/21/2015
DOL	AG		GERARD IPPOLITO		563 MUNCEY ROAD WEST ISLIP NY 11795	07/14/2008	07/14/2013
DOL	AG		GERASIMO ANDRIANIS		22-15 47TH STREET ASTORIA NY 11105	08/03/2006	08/03/2011
DOL	DOL		GREG SURACI		364 BLEAKER ROAD ROCHESTER NY 14609	10/25/2007	10/25/2012
DOL	DOL		GRIOGORIOS BELLOS		4015 21ST AVENUE ASTORIA NY 11105	01/11/2008	01/11/2013
DOL	DOL	****9985	GROUND LEVEL CONSTRUCTION		10 GABY LANE CHEEKTOWAGA NY 14227	10/15/2009	10/15/2014
DOL	DOL	****8904	HALLOCKS CONSTRUCTION CORP	P O BOX 278	YORKTOWN HEIGHTS NY 10598	12/01/2008	12/01/2013
DOL	DOL		HARALAMBOS KARAS		80-12 ASTORIA BOULEVARD EAST ELMHURST NY 11370	11/22/2008	10/22/2013
DOL	DOL	****0080	HI-AMP ELECTRICAL CONTRACTING CORP		265-12 HILLSIDE AVENUE FLORAL PARK NY 11004	02/15/2008	02/15/2013
DOL	DOL	****9893	HOXIE'S PAINTING CO INC		2219 VALLEY DRIVE SYRACUSE NY 13207	12/04/2009	12/04/2014
DOL	DOL	****6429	IDM ENTERPRISES INC		60 OUTWATER LANE GARFIELD NJ 07026	05/09/2009	05/09/2014
DOL	DOL	****6293	IMPRESSIVE CONCRETE CORP		264A SUBURBAN AVENUE DEER PARK NY 11729	12/18/2007	12/18/2012
DOL	DOL	****8898	IN-TECH CONSTRUCTION INC		8346 BREWERTON ROAD CICERO NY 13039	07/06/2007	07/06/2012
DOL	DOL	****7561	INDUS GENERAL CONSTRUCTION		33-04 91ST STREET JACKSON HEIGHTS NY 11372	04/28/2010	04/28/2015
DOL	NYC	****7728	INTEGRITY CONSTRUCTION & CONSULTING SERVS		7615 MYRTLE AVENUE GLENDALE NY 11385	02/15/2007	02/15/2012

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DOL	DOL	****0488	INTERWORKS SYSTEMS, INC.		1233 WALT WHITMAN ROAD MELVILLE NY 11747	04/29/2008	04/29/2013
DOL	DOL		ISRAEL MONTESINOS		517 MILES SQUARE ROAD YONKERS NY 10701	02/15/2008	02/15/2013
DOL	DOL		IVAN D MARKOVSKI		60 OUTWATER LANE GARFIELD NJ 07026	05/09/2009	05/09/2014
DOL	DOL		IVAN TORRES		11 PLYMOUTH ROAD DIX HILLS NY 11746	02/15/2008	02/15/2013
DOL	DOL	****0579	J & I CONSTRUCTION CORP		110 FOURTH STREET NEW ROCHELLE NY 10801	02/15/2008	02/15/2013
DOL	DOL	****7357	J C MCCASHION CONSTRUCTION INC		84 FREDERICK AVENUE ALBANY NY 12205	04/13/2006	04/13/2011
DOL	DOL	****1584	J M TRI STATE TRUCKING INC		140 ARMSTRONG AVENUE SYRACUSE NY 13209	10/21/2009	10/21/2014
DOL	AG	****1562	JANS GENERAL CONSTRUCTION CORP.		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	DOL		JASON ASBURY		22562 SEA BASS DRIVE BOCA RATON FL 33428	10/10/2007	10/10/2012
DOL	DOL		JAY MEYER		239 MARSH DRIVE DEWITT NY 13214	02/20/2007	02/20/2012
DOL	DOL		JEANETTE CALICCHIA		1223 PARK STREET PEEKSKILL NY 10566	09/12/2007	09/12/2012
DOL	DOL		JEFFREY ARTIERI		107 STEVENS STREET LOCKPORT NY 14094	11/04/2009	11/04/2014
DOL	DOL		JOHN B DUGAN		121 LINCOLN AVENUE ROCHESTER NY 14611	02/21/2008	02/21/2013
DOL	DA		JOHN BIAS		153 BAYWOODS LANE BAY SHORE NY 11706	03/19/2007	03/19/2012
DOL	DOL		JOHN BUONADONNA		283 NORTH MIDDLETOWN ROAD PEARL RIVER NY 10965	09/28/2009	09/28/2014
DOL	NYC		JOHN C MCCASHION		84 FREDERICK AVENUE ALBANY NY 12205	04/13/2006	04/13/2011
DOL	DOL		JOHN DESCUL		75 MCCULLOCH DRIVE DIX HILLS NY 11746	10/19/2010	10/19/2015
DOL	NYC		JOHN DITURI		1107 MCDONALD AVENUE BROOKLYN NY 11230	07/30/2010	07/30/2015
DOL	DOL		JOHN JIULIANNI		222 GAINSBORG AVENUE E WEST HARRISON NY 10604	05/10/2010	05/10/2015
DOL	NYC		JOHN MARI JR		278 ROBINSON AVENUE NEW YORK NY 10312	04/06/2008	04/06/2013
DOL	NYC		JOHN O'SHEA		4350 BULLARD AVENUE BRONX NY 10466	01/28/2008	01/28/2013
DOL	DOL	****5970	JOHN PREVETE FRAMING AND JOHN PREVETE FRAMING INC	JOHN PREVETE	320 RIDGE ROAD WEST MILFORD NJ 07480	03/26/2008	03/26/2013
DOL	DOL		JOHN SAN SEVERE		C/O CRAIN CONSTRUCTION CO ONE KINDERHAMACK ROADHACKENSACK NJ 07061	10/02/2008	10/02/2013
DOL	DOL	****2701	JOHN SMYKLA	AFFORDABLE PAINTING PLUS	367 GREEVES ROAD NEW HAMPTON NY 10958	10/01/2010	10/01/2015
DOL	DOL		JOSE DOS SANTOS JR		85-08 60TH AVENUE ELMHURST NY 11373	11/21/2008	11/21/2013
DOL	DOL		JOSEPH CALICCHIA		1223 PARK STREET PEEKSKILL NY 10566	09/12/2007	09/12/2012
DOL	DOL		JOSEPH MONETTE		C/O JOHN MONETTE 140 ARMSTRONG AVENUESYRACUSE NY 13209	10/21/2009	10/21/2014
DOL	DOL	****1763	JR RESTORATION & ROOFING INC		152-65 11TH AVENUE WHITESTONE NY 11357	05/22/2008	05/22/2013
DOL	DOL		JULIUS AND GITA BEHREND		5 EMES LANE MONSEY NY 10952	11/20/2002	11/20/3002
DOL	DOL	****9422	JUNKYARD CONSTRUCTION CORP.		2068 ANTHONY AVENUE BRONX NY 10457	12/26/2007	12/26/2012
DOL	DOL	****3810	K M MARTELL CONSTRUCTION, INC.		57 CROSS ROAD MIDDLETOWN NY 10940	06/25/2007	06/25/2012
DOL	DOL	****9993	K M R ENTERPRISES		10 STUFFLE STREET CROPSYVILLE NY 12052	12/20/2006	12/20/2011
DOL	DOL		K NELSON SACKOOR		16 JOY DRIVE NEW HYDE PARK NY 11040	01/05/2010	01/05/2015
DOL	DOL	****8648	K-STAR CONSTRUCTION CORP		42 48 161ST STREET FLUSHING NY 11358	12/11/2006	12/11/2011
DOL	NYC		KAMIL OZTURK		3715 KINGS HWY - STE 1D BROOKLYN NY 11234	07/08/2010	07/08/2015

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DOL	NYC		KAZIMIERZ KONOPSKI		194 ASHLAND PLACE BROOKLYN NY 11217	03/06/2008	03/06/2013
DOL	AG		KEFCAL CONSTRUCTION, INC.		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	NYC	****4923	KELLY'S SHEET METAL, INC.		1426 ATLANTIC AVENUE BROOKLYN NY 11216	12/28/2007	12/28/2012
DOL	DOL		KEMPTON MCINTOSH		8531 AVENUE B BROOKLYN NY 11236	12/16/2008	12/16/2013
DOL	DOL		KENNETH W. GRIFFIN		101 LILL STREET ROCHESTER NY 14621	05/01/2006	05/01/2011
DOL	DOL		KEVIN MARTELL		57 CROSS ROAD MIDDLETOWN NY 10940	06/25/2007	06/25/2012
DOL	AG	****3318	KOSMAR CONTRACTING CORP.		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	DOL		KRIS CLARKSON		2484 CATON ROAD CORNING NY 14830	06/20/2007	06/20/2012
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 AVENUE ROCHESTER NY 14605	10/19/2009	10/19/2014
DOL	DOL		LARRY FRANGOS		5752 WEST WEBB ROAD YOUNGSTOWN OH 44515	05/21/2008	05/21/2013
DOL	DOL	****7907	LEEMA EXCAVATING INC		140 ARMSTRONG AVENUE SYRACUSE NY 13209	10/21/2009	10/21/2014
DOL	AG	****5102	LIBERTY TREE SERVICE, INC.		563 MUNCEY ROAD WEST ISLIP NY 11795	07/14/2008	07/14/2013
DOL	DOL	****6651	LIGHTNING FAST LABOR FORCE SERVICES, INC.		150 NORTH CHESTNUT STREET ROCHESTER NY 14604	05/01/2006	05/01/2011
DOL	DOL	****5953	LPD CONTRACTING INC		1205 MCBRIDE AVENUE WEST PATTERSON NJ 07424	08/27/2007	08/27/2012
DOL	DOL	****5171	LUVIN CONSTRUCTION CORP		P O BOX 357 CARLE PLACE NY 11514	03/15/2010	03/15/2015
DOL	DOL	****9875	M & S STRIPING INC		73 INDUSTRIAL PARK BLVD ELMIRA NY 14901	01/10/2007	01/10/2012
DOL	DOL	****9688	M K PAINTING INC		4157 SEVENTH STREET WYANDOTT MI 48192	05/14/2007	05/14/2012
DOL	AG		MANN'S CONTRACTING CORP		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
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		MARIO R ECHEVERRIA JR		588 MEACHAM AVE-SUITE 103 ELMONT NY 11003	08/24/2010	08/24/2015
DOL	DOL		MARK LINDSLEY		355 COUNTY ROUTE 8 FULTON NY 13069	08/08/2009	08/14/2014
DOL	DOL		MASONRY CONSTRUCTION INC		220 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	12/04/2014
DOL	DOL		MASONRY INDUSTRIES INC		220 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	12/04/2014
DOL	DOL	****6826	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	NYC	****4132	MCCASHION BROTHERS HOLDING COMPANY LLC		84 FREDERICK AVENUE ALBANY NY 12205	04/13/2006	04/13/2011
DOL	DOL		MCI CONSTRUCTION INC		975 OLD MEDFORD AVENUE FARMINGDALE NY 11738	08/24/2009	08/24/2014
DOL	DOL	****4259	MERCANDO CONTRACTING CO INC		134 MURRAY AVENUE YONKERS NY 10704	12/11/2009	12/11/2014
DOL	DOL	****0327	MERCANDO INDUSTRIES LLC		134 MURRAY AVENUE YONKERS NY 10704	12/11/2009	12/11/2014
DOL	DOL	****0241	MERIT FENCE CO INC		130 OLD ROUTE 6 CARMEL NY 10512	08/06/2003	02/02/2012
DOL	DOL		MICHAEL L. KRIVITZA	NORTHEAST TECHNOLOGI ES	105 PINE STREET - APT 2 EAST ROCHESTER NY 14445	05/14/2007	05/14/2012
DOL	DOL		MICHAEL STEVENS	STEVENS TRUCKING	2458 EAST RIVER ROAD CORTLAND NY 13045	01/23/2008	01/23/2013

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DOL	DOL	****0860	MICHAEL STEVENS	STEVENS TRUCKING	2458 EAST RIVER ROAD CORTLAND NY 13045	01/23/2008	01/23/2013
DOL	DOL		MICHAEL TAYLOR		66 RYBKA ROAD STUYVESANT FALLS NY 12174	03/02/2007	03/02/2012
DOL	DOL	****0818	MILLER SANDBLASTING AND PAINTING		121 LINCOLN AVENUE ROCHESTER NY 14611	02/21/2008	02/21/2013
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	DOL	****2251	MURDOUGH DEVELOPMENT CO., INC.		203 KELLY DRIVE EAST AURORA NY 14052	03/26/2008	03/26/2013
DOL	DA	****9642	MUTUAL OF AMERICAL GENERAL CONSTRUCTION & MANAGEMENT CORP		768 LYDIG AVENUE BRONX NY 10462	08/18/2009	05/25/2015
DOL	DOL	****4133	NASDA ELECTRICAL ENTERPRISES INC		134-25 166 PLACE - #5E JAMAICA NY 11434	08/07/2008	08/07/2013
DOL	DOL	****9445	NASDA ENTERPRISES INC		134-25 166 PLACE #5E JAMAICA NY 11434	08/07/2008	08/07/2013
DOL	DOL	****2213	NEUSS CONSTRUCTION, INC.		1191 ROUTE 9W - SUITE #C6 MARLBORO NY 12542	09/06/2006	09/06/2011
DOL	DOL		NICK NITIS		3 ALAN B SHEPARD PLACE YONKERS NY 10705	12/11/2006	12/11/2011
DOL	DOL		NICOLE SPELLMAN		2081 JACKSON AVENUE COPIAGUE NY 11726	06/03/2010	06/03/2015
DOL	DOL	****9890	NOBLE CONSTRUCTION		23960 WHITE ROAD WATERTOWN NY 13601	02/14/2008	02/14/2013
DOL	DOL	****7771	NORTHEAST TECHNOLOGIES		105 PINE STREET APT. 2 EAST ROCHESTER NY 14445	05/14/2007	05/14/2012
DOL	DOL	****1833	NORTHEASTERN SUPREME FLOOR CO.,INC		66 BENEDICT STREET CASTLETON NY 12033	03/02/2007	03/02/2012
DOL	DOL	****7041	NYCOM SERVICES CORP		80-12 ASTORIA BOULEVARD EAST ELMHURST NY 11370	11/22/2008	11/22/2013
DOL	DOL	****0797	O GLOBO CONSTRUCTION CORP		85-06 60TH AVENUE ELMHURST NY 11373	11/21/2008	11/21/2013
DOL	DOL	****1803	OMNI CONTRACTING COMPANY, INC.		3 ALAN B. SHEPARD PLACE YONKERS NY 10705	12/11/2006	12/11/2011
DOL	NYC	****6176	ORSOGRIL NEW YORK INC		25 CLIFF STREET NEW ROCHELLE NY 10801	06/15/2010	06/15/2015
DOL	NYC	****3855	OT & T INC		36-28 23RD STREET LONG ISLAND CITY NY 11106	01/15/2008	05/14/2013
DOL	NYC	****9833	PARADISE CONSTRUCTION CORP		6814 8TH AVENUE BROOKLYN NY 11220	12/03/2007	12/03/2012
DOL	DOL	****3039	PARAGON PLATE GLASS, INC.		210 FACTORY STREET WATERTOWN NY 13601	11/07/2006	11/07/2011
DOL	DOL	****5226	PASCARELLA & SONS		459 EVERDALE AVENUE WEST ISLIP NY 11759	01/10/2010	01/10/2015
DOL	DOL		PATRICK BURNS		19 E. CAYUGA STREET OSWEGO NY 13126	05/15/2008	05/15/2013
DOL	DOL		PATRICK SHAUGHNESSY		88 REDWOOD DRIVE ROCHESTER NY 14617	05/16/2008	05/16/2013
DOL	DOL		PEDRO RINCON		131 MELROSE STREET BROOKLYN NY 11206	03/02/2010	03/02/2015
DOL	AG		PETER GOUZOS		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
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	DOL	****1136	PHOENIX ELECTRICIANS COMPANY INC		540 BROADWAY P O BOX 2222ALBANY NY 12201	03/09/2010	03/09/2015
DOL	DOL	****5419	PINE VALLEY LANDSCAPE CORP		RR 1, BOX 285-B BUSKIRK NY 12028	08/27/2008	08/27/2013
DOL	DOL		PRECISION DEVELOPMENT CORP		115 LEWIS STREET YONKERS NY 10703	05/12/2009	05/12/2014
DOL	DOL	****9359	PRECISION STEEL ERECTORS INC		P O BOX 949 BREWERTON NY 13029	09/02/2008	09/02/2013
DOL	DOL	****2326	PUTMAN CONSTRUCTION COMPANY OF WESTERN NY		29 PHYLLIS AVENUE BUFFALO NY 14215	09/03/2008	09/03/2013
DOL	DOL	****7438	R & H COMMERCIAL FLOORING, INC.		102 WILLOW AVENUE WATKINS GLEN NY 14891	06/20/2007	06/20/2012
DOL	DOL	****1596	R & T SUPREME SPORTS FLOORING, LLC		66 RYBKA ROAD STUYVESANT FALLS NY 12174	03/02/2007	03/02/2012
DOL	DOL	****1629	R S CONSTRUCTION COMPANY LLC		571 MILES SQUARE ROAD YONKERS NY 10701	04/04/2007	04/04/2012



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DOL	AG	****2626	RAINBOW RENOVATIONS, INC.		35-44 CRESCENT STREET LONG ISLAND CITY NY 11106	08/03/2006	08/03/2011
DOL	DOL		RAMON BONILLA		938 E 232ND STREET #2 BRONX NY 10466	05/25/2010	05/25/2015
DOL	DOL	****7294	REDWOOD FLOORING, INC.		88 REDWOOD DRIVE ROCHESTER NY 14617	05/16/2008	05/16/2013
DOL	NYC	****6978	RISINGTECH INC		243-03 137TH AVENUE ROSEDALE NY 11422	03/25/2010	03/25/2015
DOL	DOL		ROBBYE BISSE SAR		89-51 SPRINGFIELD BLVD QUEENS VILLAGE NY 11427	01/11/2003	01/11/3003
DOL	DOL		ROBERT DIMARSICO		1233 WALT WHITMAN ROAD MELVILLE NY 11747	04/29/2008	04/29/2013
DOL	DOL		ROBERT O'HANLON		635 MIDLAND AVENUE GARFIELD NJ 07026	07/09/2007	07/09/2012
DOL	DOL		ROBERT STEVENSON		571 MILES SQUARE ROAD YONKERS NY 10701	04/04/2007	04/04/2012
DOL	DOL	****1721	ROBERTS CONSTRUCTION OF UPSTATE NEW YORK INC		5 SANGER AVENUE NEW HARTFORD NY 13413	01/28/2009	01/28/2014
DOL	DOL	****3467	ROCKERS AND NOCKERS LLC		207 RIVERVIEW ROAD REXFORD NY 12148	10/23/2007	10/23/2012
DOL	DOL	****9025	ROJO MECHANICAL LLC		938 E 232ND STREET #2 BRONX NY 10466	05/25/2010	05/25/2015
DOL	DOL		RONALD R SAVOY	C/O CNY MECHANICAL ASSOCIATES INC	P O BOX 250 EAST SYRACUSE NY 13057	11/06/2008	11/06/2013
DOL	DOL		ROSARIO CARRUBBA		5755 NEWHOUSE ROAD EAST AMHERST NY 14051	10/10/2007	10/10/2012
DOL	DOL	****5905	ROSE PAINTING CORP		222 GAINSBORG AVENUE EAST WEST HARRISON NY 10604	05/10/2010	05/10/2015
DOL	DOL		RUDOLPH NEUSS		8 FAR HORIZONS DRIVE NEWBURGH NY 12550	09/06/2006	09/06/2011
DOL	DOL		RUSSELL TUPPER		8346 BREWERTON ROAD CICERO NY 13039	07/06/2007	07/06/2012
DOL	DOL		RUTH H SUTTON		939 GROVESIDE ROAD BUSKIRK NY 12028	08/27/2008	08/27/2013
DOL	DOL	****2585	S B WATERPROOFING INC		SUITE #3R 2167 CONEY ISLAND AVENUE BROOKLYN NY 11223	11/04/2009	11/04/2014
DOL	DOL	****9066	SAMAR PAINTING & DECORATING INC		137 E MAIN STREET ELMSFORD NY 10523	12/01/2008	12/01/2013
DOL	NYC	****0987	SCHWARTZ ELECTRIC CONTRACTORS INC		89 WALKER STREET NEW YORK NY 10013	01/04/2008	01/04/2013
DOL	DOL	****6348	SEABURY ENTERPRISES LLC		22562 SEA BASS DRIVE BOCA RATON FL 33428	10/10/2007	10/10/2012
DOL	NYC	****4020	SERVI-TEK ELEVATOR CORP		2546 EAST TREMONT AVENUE BRONX NY 10461	07/16/2009	07/16/2014
DOL	NYC	****8252	SEVERN TRENT ENVIRONMENTAL SERVICES INC		16337 PARK ROW HOUSTON TX 77084	06/12/2007	06/12/2012
DOL	DOL		SHAIKF YOUSUF		C/O INDUS GENERAL CONST 33-04 91ST STREET JACKSON HEIGHTS NY 11372	04/28/2010	04/28/2015
DOL	DOL	****0256	SIERRA ERECTORS INC		79 MADISON AVE - FL 17 NEW YORK NY 10016	04/16/2009	04/16/2014
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 772 JAMESTOWN NY 14702	04/04/2007	08/13/2015
DOL	DOL	****9397	SKY COMMUNICATIONS, INC.		PO BOX 278 DEWITT NY 13214	02/20/2007	02/20/2012
DOL	AG		SN CONTRACTING CORP		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	AG	****7480	SNA CONTRACTING CORP		131 47TH STREET BROOKLYN NY 11232	01/26/2007	01/25/2012
DOL	AG	****2738	SNA CONTRACTING CORP.		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	DOL		SPASOJE DOBRIC		61 WILLET STREET - SUITE PASSAIC NJ 07055	07/09/2010	07/09/2015
DOL	DOL	****0918	SPECTRUM CONTRACTING GROUP INC		875 THIRD AVENUE NEW YORK NY 10022	12/11/2006	12/11/2011
DOL	AG	****1355	SPIRIDON ANTHOULIS		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012

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DOL	AG		STACEY GOUZOS		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	DOL	****3496	STAR INTERNATIONAL INC		89-51 SPRINGFIELD BLVD QUEENS VILLAGE NY 11427	08/11/2003	08/11/3003
DOL	NYC	****6650	START ELEVATOR CONSTRUCTION, INC.		4350 BULLARD AVENUE BRONX NY 10466	01/28/2008	01/28/2013
DOL	NYC	****3896	START ELEVATOR MAINTENANCE, INC.		4350 BULLARD AVENUE BRONX NY 10466	01/28/2008	01/28/2013
DOL	NYC	****1216	START ELEVATOR REPAIR, INC.		4350 BULLARD AVENUE BRONX NY 10466	01/28/2008	01/28/2013
DOL	NYC	****2101	START ELEVATOR, INC.		4350 BULLARD AVENUE BRONX NY 10466	01/28/2008	01/28/2013
DOL	DOL		STEED GENERAL CONTRACTORS INC		1445 COMMERCE AVENUE BRONX NY 10461	10/09/2007	10/09/2012
DOL	DOL		STEPHEN BALZER		34-08 PARKWAY DRIVE BALDWIN NY 11510	07/01/2008	07/01/2013
DOL	DOL		STEVE PAPASTEFANOU		1445 COMMERCE AVENUE BRONX NY 10461	10/09/2007	10/09/2012
DOL	DOL	****4081	STS CONSTRUCTION OF WNY		893 EAGLE STREET BUFFALO NY 14210	06/09/2009	06/09/2014
DOL	DOL	****5966	SUPREME SPORT SURFACES, INC.		66 BENEDICT STREET CASTLETON NY 12033	03/02/2007	03/02/2012
DOL	DOL	****2036	SURACI ENTERPRISES INC		364 BLEAKER ROAD ROCHESTER NY 14609	10/25/2007	10/25/2012
DOL	AG		TAO GENERAL CONTRACTORS INC		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	DOL		THEODORE F FAULKS		18 FIREWEED TRAIL HILTON NY 14468	06/10/2008	06/10/2013
DOL	DOL		THOMAS ASCHMONEIT		79 MADISON AVENUE - FL 17 NEW YORK NY 10016	04/16/2009	04/16/2014
DOL	DOL		THOMAS E. MOONEY		164 WINSLOW STREET WATERTOWN NY 13601	11/07/2006	11/07/2011
DOL	DOL		THOMAS GORMALLY		250 KNEELAND AVENUE YONKERS NY 10705	07/09/2007	07/09/2012
DOL	DOL		TIMOTHY P SUCH		893 EAGLE STREET BUFFALO NY 14210	06/09/2009	06/09/2014
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		TRI STATE TRUCKING INC		140 ARMSTRONG AVENUE SYRACUSE NY 13209	10/21/2009	10/21/2014
DOL	NYC	****5184	UDDIN USA CORP		663 DEGRAW STREET BROOKLYN NY 11217	05/17/2007	05/17/2012
DOL	DOL		ULIANO AND SONS INC		22 GRIFFEN COURT MILLER PLACE NY 11746	10/26/2010	10/26/2015
DOL	DOL	****8663	URBAN-SUBURBAN RECREATION INC		3 LUCON DRIVE DEER PARK NY 11728	06/20/2007	06/20/2012
DOL	DOL	****0854	VANESSA CONSTRUCTION INC		588 MEACHAM AVE/STE 103 ELMONT NY 11003	08/24/2010	08/24/2015
DOL	DA		VASILIOS TSIMITRAS		235 91ST STREET BROOKLYN NY 11209	11/27/2006	11/27/2011
DOL	DOL		VIRGINIA L CAPONE		137 E MAIN STREET ELMSFORD NY 10523	12/01/2008	12/01/2013
DOL	NYC	****9936	VISHAL CONSTRUCTION INC		73-12 35TH AVE - APT F63 JACKSON HEIGHTS NY 11272	03/04/2010	03/04/2015
DOL	NYC	****5466	VIVA VICTORIA ENTERPRISES LTD		10317 90TH STREET OZONE PARK NY 11417	06/12/2006	06/12/2011
DOL	DOL	****0329	WET PAINT CO. OF OSWEGO, INC		19 E. CAYUGA STREET OSWEGO NY 13126	05/15/2008	05/15/2013
DOL	DOL		WHITE PLAINS CARPENTRY CORP		220 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	12/04/2014
DOL	DOL		WILLIAM PUTNAM		50 RIDGE ROAD BUFFALO NY 14215	09/03/2008	09/03/2013
DOL	DA		WILLIAM TSIMITRAS		235 91ST STREET BROOKLYN NY 11209	11/27/2006	11/27/2011
DOL	DOL		WILLIAM W FARMER JR		112 HUDSON AVENUE ROCHESTER NY 14605	10/19/2009	10/19/2014
DOL	DOL		WINSTON J. GOINS, SR.		87 MALLING DRIVE ROCHESTER NY 14621	05/01/2006	05/01/2011
DOL	NYC	****5498	XAVIER CONTRACTING LLC		68 GAYLORD ROAD SCARSDALE NY 10583	02/16/2011	02/16/2015
DOL	AG		YANG GENERAL CONTRACTING LTD		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012

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DOL	AG	*****0288	YIN CONSTRUCTION LTD		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	AG		YULY ARONSON		700 SUMMER STREET STAMFORD CT	11/24/2009	11/24/2014
DOL	AG	*****1564	ZARBEN GENERAL CONSTRUCTION INC		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	DOL		ZEPHENIAH DAVIS		2068 ANTHONY AVENUE BRONX NY 10457	12/26/2007	12/26/2012

## NYS DOL Bureau of Public Work Debarment List 02/24/2011

## Article 9

AGENCY	Fiscal Officer	SSN/FEIN	EMPLOYER NAME	EMPLOYER DBA NAME	ADDRESS	DEBARMENT START DATE	DEBARMENT END DATE
DOL	NYC	*****8212	VELOX CLEANING CORP		32 ESSEX LANE WILLINGBORO NJ 08046	07/09/2010	07/09/2015



CONTRACT ID: D261746

PROJECT(S): 881167

CONTRACTOR : \_\_\_\_\_

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SEC  ITEM
NUM  NUMBER      DESCRIPTION                                UNIT      QUANTITY
=====
0001 636.01000021  JOB ORDER CONTRACTING - NORMAL WORKING HOURS      PCNT      695654.000
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0001 636.02000021  JOB ORDER CONTRACTING - OTHER THAN NORMAL WORKING HOU PCNT      166666.000
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