

**SPECIFICATIONS
FOR
2018 BRIDGE IMPROVEMENT PROGRAM**

BA#16-2019; UNION COUNTY ENGINEERING PROJECT #2017-024

APRIL 2019

**UNION COUNTY OFFICIALS
BOARD OF CHOSEN FREEHOLDERS**

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Alexander Mirabella, Vice Chairman
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Angela R. Garretson, Freeholder
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COUNTY MANAGER

Edward T. Oatman

**DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND
FACILITIES MANAGEMENT**

Joseph A. Graziano, Sr., CPWM
Director, Department of Engineering, Public Works and
Facilities Management

**COUNTY ENGINEER
DIVISION OF ENGINEERING**

Thomas O. Mineo, P.E.
2325 South Avenue
Scotch Plains, New Jersey 07076
Telephone: (908) 789-3675
Fax: (908) 789-3674

Prepared by:
Remington & Vernick Engineers (RVE)
51 Haddonfield Road, Suite 260
Cherry Hill, New Jersey 08002
(856) 795-9595

**COUNTY OF UNION
NOTICE TO BIDDERS**

Sealed bids will be received by the director of the Division of Purchasing, or her designee, at the County of Union, New Jersey on **May 7, 2019 at 10:30 a.m.**, prevailing time, in the 3rd Floor Conference Room, U.C. Administration Building, 10 Elizabethtown Plaza, Elizabeth, New Jersey for:

**2018 BRIDGE IMPROVEMENT PROGRAM
COUNTY OF UNION, NEW JERSEY
BA#16-2019; UNION COUNTY ENGINEERING PROJECT #2017-024**

Bid Packages may be obtained at no charge by registering and downloading at <http://ucnj.org/bid-specs>. Bid Packages may also be obtained in person from the Division of Engineering at 2325 South Avenue, Scotch Plains, New Jersey 07076 between 8:30 a.m. and 4:00 p.m. weekdays upon payment of a non-refundable money order or bank check in the amount of \$275.00 made payable to the County of Union. No Personal/Company checks will be accepted. Requests for mailing of specifications will not be honored. For further information please call 908-789-3675.

The County reserves the right to reject any and all bids and to waive any and all informalities in the bid in accordance with the New Jersey Local Public Contracts Law.

Bids shall be submitted in a sealed envelope and clearly marked with the subject of the bid, name and address of the bidder, phone & fax number, and date of the bid opening. Each bid must be delivered to reach the Division of Purchasing prior to the stated time of the opening of the bids. The County will not be responsible for late delivery by the U.S. Mail or any other carrier. If hand delivered, please note that parking and security access at the County Complex may cause delays and bidders should take them into consideration in order to submit a timely bid. **No** late bids will be accepted.

Bidders are required to comply with the requirements of N.J.S.A. 10:5-31 et seq. and N.J.A.C. 17:27.

LAURA M. SCUTARI, QPA, MPA, DIRECTOR OF PURCHASING

**UNION COUNTY BOARD
OF CHOSEN FREEHOLDERS**

We're Connected to You!

**2018 BRIDGE IMPROVEMENT PROGRAM
COUNTY OF UNION, NEW JERSEY
BA#16-2019; Union County Engineering Project #2017-024**

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**UNION COUNTY BOARD OF CHOSEN FREEHOLDERS
INSTRUCTIONS TO BIDDERS AND FORMS**

DEFINITIONS

Wherever reference is made to the County, Title of Project, Bidder, or Vendor/Contractor they shall be as follows:

OWNER/COUNTY:

Union County Board of Chosen Freeholders
UC Administration Building, 6th Floor
10 Elizabethtown Plaza
Elizabeth, New Jersey 07207

ADDRESS BIDS AND SUBMIT TO:

Union County Division of Purchasing
UC Administration Building, 3rd Floor
10 Elizabethtown Plaza
Elizabeth, NJ 07207
Attn: Laura M. Scutari, QPA, MPA, Director, Division of Purchasing
Telephone: 908-527-4130
Facsimile: 908-558-2548

TITLE OF PROJECT: **BA#16-2019
2018 BRIDGE IMPROVEMENT PROGRAM
COUNTY OF UNION, NEW JERSEY
UNION COUNTY ENGINEERING PROJECT # 2017-024**

BIDDER: Bidder shall be a single overall contract bidder

ENGINEER: Remington & Vernick Engineers (RVE)
51 Haddonfield Road, Suite 260
Cherry Hill, New Jersey 08002

COUNTY ENGINEER AND/OR CONSTRUCTION MANAGER (as applicable):

COUNTY ENGINEER:

Thomas O. Mineo, P.E.
Union County
Division of Engineering
2325 South Avenue
Scotch Plains, NJ 07076
Office: (908) 789-3675
Facsimile: (908) 789-3674
Email: tmineo@ucnj.org

CONSTRUCTION MANAGER:

GENERAL SPECIFICATIONS

1. BID FORM

Bids for this Work will be enclosed in a sealed envelope addressed to the Purchasing Division, County of Union, New Jersey, Union County Administration Building, 10 Elizabethtown Plaza, Elizabeth, New Jersey 07207, with the full name of the Project clearly marked on the outside. Refer to the sheet marked "Notice of Bid (Advertisement)" for the correct name of the Project. Bidders must submit their bids on the attached pricing sheet (Bid Form), in a sealed envelope addressed to the County and bearing on the outside: the name of the Bidder, Bidder's business address, and the title of the Project.

The Division of Purchasing will receive the bids for this Work at the Union County Administration Building, 10 Elizabethtown Plaza, Elizabeth, New Jersey on the date and time noted on the sheet marked "**Notice of Bid (Advertisement).**"

The County will not assume responsibility for bids forwarded by mail. It is the individual's responsibility to see that the bids are presented to the Purchasing Division at the time and at the place designated.

Bids will be accepted only on the Bid Form supplied. Bids on forms other than the original supplied herein will be rejected. The "complete" Bid Documents includes the Bid Bond, Bid Form, Bidder's Checklist, Consent of Surety, Ownership Disclosure Certification, Non-Collusion Affidavit, and any other documents noted in these Instructions to Bidders or Contract Document to be submitted with this Bid.

The bidder will state in the bidding sheet the price per unit of measure for each scheduled Item of Work for which he will agree to carry out the Work, and the Total Bid Price for the construction of the Project.

The prices in the Bid Form shall be typed or written in pen and ink. Erasures or alterations must be initialed by the bidder in ink.

The bidding sheet for this Project may include a fixed amount as a Bid Allowance. If applicable, all bidders are required to add this fixed amount to their base bid and to include this additional amount in their Bid Bond. This sum will be included in the Contract as well as the performance, labor and materials bond. Payment by the County will be made to the Contractor from these funds only upon the completion of extra Work pursuant to a written Change Order(s) signed by the County's Engineer or his designee and the Contractor, prior to the commencement of such Work. Work commenced prior to written approval by the County shall be done at Contractor's risk. Such payment will only be in the amount agreed to by the parties, in writing in the Change Order(s). See Section 37, Change Orders, of these general specifications for further details.

Refer to Bid Document Submission Checklist for all required documents.

In the event there is a discrepancy between the unit price given and the extended total, the unit price will govern. Any discrepancies will be mathematically adjusted.

Insert applicable alternates, if any have been specified, applicable to the Bidder's Work. All alternates MUST be bid upon. Any Bidder's failure to do so will be deemed a material, non-waivable defect and shall render the bid nonresponsive. The Bidder shall clearly designate whether the change in price is an addition or subtraction, by using either a "+" sign or the word "addition," or in the alternative, a "-" sign or the word "minus." If there is no other change in price, the Bidder shall insert "NC" or "No Charge."

When two or more low bids are equal in all respects, awards will be made according to the provisions of N.J.S.A. 40A:11-6.1(d).

Where unit prices have already been established by the Contract Documents, the Bidder agrees that such unit prices shall prevail. All unit prices, whether filled in by the Bidder or established by the Contract Documents, shall become part of the Contract. No bid will be considered or award made, unless applicable unit prices, as required, are filled in.

The County reserves the right to reject any or all bids and also reserves the right to waive any informality in the bids received so long as said waiver is not of a response which is considered to be material and non-waivable pursuant to law.

The County of Union has the right to reject any and all bids from any bidder that is in, or contemplates bankruptcy of any chapter of nature. Said bidder shall notify the County, in writing, of any condition or knowledge of the same.

Conditional bids will not be accepted. Bids may be withdrawn prior to the advertised time for the opening of bids or authorized postponement thereof or in accordance with the provisions of N.J.S.A. 40A:11-23.3 discussed below. Bids received after the advertised time shall not be considered. Bidders shall be solely responsible for premature opening or late delivery of bids not properly marked, addressed, or directed.

2. WITHDRAWAL OF BID DUE TO MISTAKE

N.J.S.A. 40A:11-23.3 authorizes a bidder to request withdrawal of a public works bid due to a mistake on the part of the bidder. A mistake is defined by N.J.S.A. 40A:11-2(42) as a clerical error that is an **unintentional and substantial computational error or an unintentional omission of a substantial quantity of labor, material, or both, from the final bid computation.**

A bidder claiming a mistake under N.J.S.A. 40A:11-23.3 must submit a request for withdrawal, **in writing**, by certified or registered mail to Laura M. Scutari, QPA, MPA, Director, Division of Purchasing, County of Union, New Jersey, Union County Administration Building, 10 Elizabethtown Plaza, Elizabeth, New Jersey 07207. The bidder must request withdrawal of a bid due to a mistake, as defined by the law, within five business days after the receipt and opening of the bids. Since the bid withdrawal request shall be effective as of the postmark of the certified or registered mailing, Laura

M. Scutari, QPA, Director of the Division of Purchasing or his designee may contact all bidders, after bids are opened, to ascertain if any bidders wish to, or already have exercised a request to withdraw their bid pursuant to N.J.S.A. 40A:11-23.3.

A bidder's request to withdraw the bid **shall** contain evidence, including any pertinent documents, demonstrating that a mistake was made. Such documents and relevant written information shall be reviewed and evaluated by the County's designated staff pursuant to the statutory criteria of N.J.S.A. 40A:11-23.3.

The County will not consider any written request for a bid withdrawal for a mistake, as defined by N.J.S.A. 40A:11-2(42), by a bidder in the preparation of a bid proposal unless the postmark of the certified or registered mailing is within the five business days following the opening of bids.

3. QUALIFICATIONS OF BIDDERS AND REQUIRED SUBMISSIONS

The County may make such investigation as it deems necessary to determine the ability of the Bidders to perform the Work, which includes investigation of any and all subcontractors listed with the bid. The Bidder shall furnish any information and data for this purpose as the County may request.

4. INTERPRETATIONS AND ADDENDA

Any explanation desired by a bidder regarding the meaning or interpretation of the Contract Documents must be requested in writing to the County Engineer or Design Professional as the case may be and with reasonable time allowed for a reply to reach bidders before submission of their bids. Any interpretation or instruction made by the County Engineer will be in the form of an addendum to the Contract Documents or clarification and will be furnished to all prospective bidders. Oral explanations or instructions given before the award of the Contract will not be binding. Bidders are required to bring to the attention of the County Engineer, the discovery of any apparent ambiguity, inconsistency, error, discrepancy, omission in the Contract Documents for interpretation and correction at least ten (10) working days before opening of bids with the exception of Saturdays, Sundays and holidays.

All Addenda issued through the Offices of the County Engineer are amendments to the Contract Documents and shall be considered in preparing bids. Same shall become part of the Contract Documents.

Addenda take precedence over all earlier documents and over each other according to the latest date. Addenda unless themselves interpretive remain subject to interpretation the same as any other document incorporated in the Contract.

Addenda may be issued by the County Engineer up to seven (7) working days prior to the opening of bids. Failure of any bidder to receive an addendum shall not relieve such bidder from the obligation imposed by such addendum. Bidders are to keep themselves currently acquainted with the Contract Documents during the entire bidding period and make inquiry on their own initiative as to issuance of any Addenda.

Receipts of all Addenda shall be acknowledged on the “*Acknowledgement of Receipt of Changes*” included in the bid package and must be submitted with the bid.

5. OBLIGATION OF BIDDER TO INSPECT SITE AND CONTRACT DOCUMENTS

At the time of the opening of bids, each Bidder will be presumed to have inspected the site(s) and to have read, and be thoroughly familiar with the Contract Documents. The failure or neglect of any Bidder to receive or examine any form, instrument, or document shall in no way relieve any Bidder from any obligation in respect to its bid.

The Bidder shall examine the contents of the Project Manual and the set of Drawings and assure itself that all pages of the Specifications, Drawings, and other Contract Documents are included in the documents obtained for bidding purposes. Should the Specifications, Drawings, and other Contract Documents be incomplete, the Bidder shall notify the County Engineer in writing, who will supply the Bidder with any missing pages of Specifications, Drawings, or other Contract Documents. The lack of such written notification by the Bidder will be construed as evidence that the Specifications, Drawings, or other Contract Documents supplied it for bidding purposes are full and complete and as a waiver of any subsequent claim to the contrary.

6. BID AND PERFORMANCE GUARANTEE

Each bidder must furnish a Bid Bond, Certified Check or Bank Cashier’s Check in the amount of ten percent (10%) of the Bid. Checks shall be drawn to the order of the County of Union, New Jersey, not to exceed \$20,000.

Each bidder must furnish with the bid a certificate from a Surety Company, i.e. Consent of Surety, stating that in the event of the contract being awarded to said bidder, such Surety Company will provide the Contractor with Bonds guaranteeing the faithful performance of the Work in accordance with the plans and specifications, and the payment for labor, materials, and all other indebtedness which may accrue on the account of this Work. A Performance, Labor and Materials bond will be furnished by the Contractor upon an award of Contract, and will be in the amount of 100% of the contract price.

A one-year Maintenance Bond will be required upon acceptance of the Project by the County in the amount as stated in Section 15 of the General Specifications. Bonds will be written by a firm authorized to issue the bonds under the laws of the State of New Jersey and be in a form acceptable to the County Counsel.

N.J.S.A. 40A:11-1.1 et seq. allows the prime Contractor to furnish the Performance Security for his Subcontractors. The County of Union requires Performance Security to be furnished by the prime contractor for the entire job in the total amount of the contract.

The County of Union shall award the contract or reject all bids within sixty (60) days; except that the bids of any bidders who consent thereto may, at the request of the County be held for consideration for such longer periods as may be agreed.

The County will return all certified checks or cashier's checks after the proposals have been opened, read, tabulated and checked except those of the three (3) bidders who have bid the lowest total price for carrying out the Project. The County will return the checks of these bidders when a contract is awarded to the successful bidder within ten (10) days after the award of the contract.

If the successful bidder refuses or neglects to sign the said Agreement and furnish the required bonds, the Bid Bond will be held and used by the County to offset any damages for such refusal or neglect.

7. COMMENCEMENT AND COMPLETION

Work will not commence until a Notice to Proceed is received from the County Engineer.

Upon substantial completion of the Project, the Contractor must request a joint inspection with the County Engineer. Upon completion of this inspection, the County Engineer will prepare a list of incomplete or incorrect items (punch list) and have Contractor initial and date same. The Contractor shall rectify all deficiencies noted on the punch list within 30 calendar days of receipt of the list. The County Engineer may approve extensions for extenuating circumstances.

8. BIDDER AFFIDAVIT

All Bidders are required to complete, sign, and submit with their Bid, the attached "Affidavit Regarding List of Debarred, Suspended or Disqualified Bidders". (See form enclosed)

9. BID SECURITY

All Bidders are required to submit a form of Bid Security with their bids.
(Bid Bond or Certified Funds)

The Bid Security shall be in the amount of ten percent (10%) of the Bid, but not in excess of Twenty Thousand Dollars (\$20,000.00), and payable to the order of the "County of Union."

10. LABOR AND MATERIALS

The prices will cover all costs of any nature incident to and growing out of the Work, including all labor, material, equipment, transportation, loss by damage or destruction of the Project, settlement of damages, and for replacement of defective work or materials. N.J.S.A. 54:32B-1 et seq. exempts all materials sold to the County of Union from sales or use taxes and should not be included in the prices provided on the Bidding Sheet.

11. INSURANCE REQUIREMENTS

The County of Union requires all contractors to be able to comply with the following insurance requirements. In the event a bid is accepted by the County, the contractor must accept the applicable insurance requirements, as set forth below, as part of any contract awarded to it by the County.

Contractor shall carry and maintain at all times while the contract is in full force and effect, the following insurance coverage with an insurance company or companies acceptable to the County, with limits not less than those shown below. A Certificate of Insurance shall be filed with the County prior to commencement of any Work indicating the following:

- a) Commercial General Liability (CGL): Coverage for all operations including, but not limited to, contractual, products and completed operations, and personal injury with limits no less than \$5,000,000 per occurrence/\$10,000,000 aggregate. The County of Union, its Board of Chosen Freeholders, officers, employees, agents and servants shall be included as an additional insured. Coverage is provided on a primary and non-contributory basis to the County of Union, et al.
- b) Automobile Liability: Coverage for all owned, non-owned and hired vehicles with limits not less than \$5,000,000 per occurrence, combined single limits (CSL) or its equivalent.
- c) Workers Compensation: As required by the State of New Jersey and Employers Liability with limits not less than \$1,000,000 per accident for bodily injury or disease.
- d) Professional Liability (if design/build): Coverage with limits not less than \$1,000,000 per occurrence or claim, \$2,000,000 aggregate
- e) Contractor's Pollution Legal Liability and/or Asbestos Legal Liability and/or Errors & Omissions (if project involves environmental hazards): Coverage with limits no less than \$1,000,000 per occurrence or claim/\$2,000,000 aggregate.
- f) Builders Risk (for major renovations): During the course of construction utilizing an "All Risk" coverage form with limits equal to the completed value of the project and no coinsurance penalty provisions.

Where applicable, a waiver of subrogation in favor of the County of Union, its Board of Chosen Freeholders, officers, employees, agents, servants and the State of New Jersey is to be included in those policies of insurance where permitted by law.

Notice of Cancellation: Each insurance policy required above shall provide that coverage shall not be canceled, except with notice to the Entity.

Special Risks or Circumstances: The County reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.

12. INDEMNIFICATION REQUIREMENTS

The County of Union requires all bidders to accept the following indemnification requirements in the event the County accepts their bid. The Contract awarded by the County to the successful bidder will contain the following provision:

“To the fullest extent permitted by law the Contractor shall indemnify and hold harmless the owner and the owner’s consultants, agents, representatives, and employees from and against any and all claims, damages, losses, costs, and expenses, including, but not limited to attorneys’ fees, legal costs and legal expenses arising out of or resulting from the performance of the Contractor’s work under this contract, provided that such claim, damage, loss, cost, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the work itself) caused or alleged to be caused by the negligent acts, negligent omissions, and/or fault of the Contractor, anyone directly or indirectly employed or retained by the Contractor, or anyone for whose acts the Contractor may be liable regardless of whether caused in part by the negligent act or omission of a party indemnified hereunder provided it is not caused by the sole negligence of a party indemnified hereunder. Contractor shall further indemnify and hold harmless the County and the County’s consultants, agents, representative, and employees from and against any and all claims, damages, losses, costs, and expenses, including, but not limited to attorneys’ fees, legal costs and legal expenses, arising out of or resulting from performance of the work, provided that such claim, damage, loss, cost, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the work itself) caused or alleged to be caused by the negligent acts, negligent omissions, and/or fault of the County or the County’s consultants, agents, representatives, or employees and arises out of this project and provided such claim, damage, loss, cost, or expense is not caused by the sole negligence of a party indemnified hereunder.”

13. ROYALTIES AND PATENTS

The Contractor shall pay all royalties and license fees. He shall defend all suits or claims for infringement of any patent rights and shall hold the County harmless from loss on account thereof.

14. PLANS AND SPECIFICATIONS

In carrying out the Work, the plan(s) and the specifications will be followed by the Contractor. Minor alterations in the plan may be made or permitted by the County Engineer from time to time and, if no additional Work is necessary, there will be no additional charge for carrying out such minor alterations.

The Contractor shall provide the County Engineer a set of reproducible as-built drawings upon completion of the Project. The Contractor shall maintain an updated construction progress plan in the Project field office at all times.

When applicable, The New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction, as amended, and Supplemental Specifications for State Aid Projects, herein after referred to as the "Standard Specifications", are made a part of these specifications and contract for the improvements, and will govern the construction of this Project, the material used and the execution of this Project, except as revised and modified herein. The references to these specifications are given herein for the purpose of aiding in the rapid location of the description of the various items herein specified. The entire Work must be carried on and completed to the satisfaction of the County. The Standard Specifications are amended as follows:

"Any reference to the Commissioner, Department, Department Laboratory, Engineer or Inspector should be redefined to be the County of Union".

15. GUARANTEE AGAINST DEFECTIVE WORK

Prior to final payment being made or before the release of the performance security required by Section 3 above, the Contractor and Surety shall execute and deliver to the County an original Maintenance Bond with an original signature and seal having a penal sum equal to:

- A) One hundred percent (100%) of the final adjusted Contract amount, if such amount is \$50,000.00 or less;
- B) Fifty percent (50%) of the final adjusted Contract amount, if such amount be greater than \$50,000.00 but less than \$250,000.00; and,
- C) Twenty-five percent (25%) of the final adjusted contract amount, if such amount is \$250,000.00 or more.

The Bond and Surety shall be satisfactory to the Union County Counsel. The Surety shall hold a Certificate of Authorization to do business in the State of New Jersey and shall conform to P.L. 1995 c.384, codified as N.J.S.A. 2A:44-143, 144. The Surety Disclosure Statement and Certification required by N.J.S.A. 2A: 44-143, 144, shall be attached to the Bond. Such Maintenance Bond shall remain in full force and effect for a period of one (1) year from the date of Final Completion. Such Maintenance Bond shall also provide that the Contractor and the Surety guarantee to replace for the said period of one (1) year from the date of Final Completion, all Work performed and/or all materials furnished that were not performed or were not furnished in accordance to the terms and performance requirements of the Contract Documents, and will make good any defects thereof which become apparent before the expiration of one (1) year. If, during that period, any part of the Project, in the judgment of the Engineer, is found

defective, the Contractor will repair or replace same within five (5) days of receipt of notice from the County Engineer. If the Contractor refuses or neglects to do such Work in the time specified, the County Engineer may have the Work done by others and the Contractor or his Surety thereof will pay the cost.

The Contractor will furnish the County a Maintenance Bond for a percentage of the final adjusted contract price, as stated above. The one (1) year period will start the day of Final Completion of Project by the County. Final payment is conditional on the receipt of a maintenance bond in a form acceptable to County Counsel.

16. TRAFFIC AND STREET MAINTENANCE

The Work must be started and performed by the Contractor in such a manner as to minimize delays to the traveling public. It must be completed in a timely fashion, with little or no inconvenience to traffic and pedestrians, where such inconvenience may be avoided.

All municipal, county, and state roadways shall remain open to traffic unless otherwise provided for in the technical specifications.

If modified traffic patterns are authorized in order to provide a safe working or traveling environment, the Contractor is responsible for providing all equipment, barrels, cones, signs, and barricades to implement the work zone and detours, unless otherwise specified in the technical specifications. All work zones and detours shall be established in accordance with the technical plans and specifications if provided or in strict compliance with the current version of the Manual for Uniform Traffic Control Devices (MUTCD). The Contractor shall obtain approval for these work zones and detour plans from the Municipal Police or applicable police agency and the Union County Bureau of Traffic Maintenance prior to implementation.

All traffic control plans shall provide for safe movement of vehicular, bicycle, and pedestrian traffic. Particular attention shall be given to requirements of the Americans with Disabilities Act.

No portion of any street or alleyway may be used for the storage of any materials or equipment without the approval of the Municipal Police or other applicable police agency. Sidewalks, gutters, drains, fire hydrants and private drives shall be maintained for their intended use unless specifically approved by the County Engineer.

Upon suspension of Work, at the end of the day or for protracted periods, the Contractor shall remove all rubbish and materials from the Work site to the approved storage/staging location. All road cuts, saw cuts, and trenches that may pose hazard to vehicular, pedestrian, or bicycle traffic, to include handicapped users, shall be filled to the surface of the roadway or sidewalk. At no time will steel plates or settled trenches be allowed at the daily suspension of Work, unless specifically approved by the County Engineer.

Use of Traffic Control Officers shall be determined by the County in accordance with the provisions of N.J.S.A. 40A:11-23.1(c). If applicable to the Project, the County shall have provided an allowance for same as set forth in the Bid Form.

With respect to pedestrian traffic, the Contractor shall install signs restricting access of the general public and, as necessary, Union County employees to the area of construction. The Contractor shall provide safe access to required areas and place physical barriers to restricted areas. These barriers may range from caution tape to actual barriers, at the direction of the County Engineer.

17. CONTRACTOR'S EMPLOYEES

The Contractor must employ only suitable and competent labor in the Work, and must remove from the Work any incompetent, unsuitable, or disorderly person upon complaint from the County Engineer.

The parties to any contract resulting from this proposal do hereby agree that the provisions of N.J.S.A. 10:2-1 through 10:2-4 (discrimination in employment on public works contracts): 34:11-56.25 et seq. (payment of prevailing rate of wages determined pursuant to N.J.S.A. 34:11-56.30 by the Commissioner), and the Rules and Regulations promulgated pursuant thereto, are hereby made a part of any contract and are binding upon them.

There will be no discrimination against any employee who is employed in the Work to be covered by any contract resulting from this bid because of age, race, creed, color, national origin, ancestry, marital status or sex.

Any person, firm, or corporation violating the provisions of this Section will be deemed and judged a disorderly person.

18. OWNERSHIP DISCLOSURES REQUIRED

Pursuant to P.L. 1977, N.J.S.A. 52:25-24.2, the Bidder shall submit with its Bid, or prior to receipt of bids, a statement setting forth the names and addresses of all stockholders in the corporation or partnership bidding who own ten percent (10%) or greater interest therein. (See forms attached)

19. NON-COLLUSION AFFIDAVIT

The Bidder shall submit with its bid either the attached completed "Non-Collusion Affidavit" or a statement of non-collusion with verbiage similar to same.

20. EQUAL EMPLOYMENT OPPORTUNITY COMPLIANCES

The successful bidder shall be required to complete and submit an Initial Project Workforce Report, New Jersey Department of Treasury Form AA-201, upon notification of award. Failure to submit this completed form may result in the Contract being terminated.

The successful bidder shall also be required to submit a copy of its Monthly Project Workforce Report, New Jersey Department of Treasury Form AA-202, to the New Jersey Department of Treasury's Division of Public Contracts Equal Employment Opportunity Compliance and to the Board.

21. COMPLIANCE WITH NEW JERSEY PREVAILING WAGE ACT

The County of Union, in order to fulfill the requirements of N.J.S.A. 34:11-56.25 et seq, requires that the following additional conditions be strictly followed. The bidders represent that he is not listed or is not on record in the Office of the Commissioner or the Department of Labor and Industry as one who failed to pay prevailing wages in accordance with the provisions of this Act. The bidder agrees to the inclusion of a contract provision upon award which specifically requires said Contractor to fully comply with each and all of the requirements of the aforesaid Act as it relates to prevailing rates of wages on public contracts as set forth in the New Jersey Prevailing Wage Act, P.L. 1963, Chapter 150 and P.L. 1974, Chapter 64.

A Copy of the Prevailing Wage Rates is attached for your reference. Applicable rates are those wages and fringe benefit rates in effect on the date the contract is awarded. All predetermined rate increases listed at the time the contract award must also be paid, beginning on the dates specified. Rates may change between the time of issuance of this determination and the award of the public works contract. Therefore, prior to the award of the contract, verification must be made with the Public Contracts section, to insure that the rates contained in this determination are still prevailing.

The Contractor agrees to abide and be bound by each and all of the said statutory provisions with respect to the payment of prevailing rates of wages, and acknowledges that the County reserves the right to terminate the Contractor's (or his subcontractors') right to proceed with the scope of Work, or such portion thereof that relates to the failure to pay prevailing rates of wages. In such event or under the terms of N.J.S.A. 34:11-56.27, the Contractor and his surety will be liable to the County of Union for any excess costs occasioned by such a violation.

The Contractor or subcontractors for this Project will post the Prevailing Wage Rates for each craft and classification involved as determined by the Commissioner of Labor and Industry, including the effective date of any changes thereof, in prominent

and easily accessible places at the site of the Work or at such place or places as are used by them to pay workmen their wages.

The County of Union requires a copy of payroll records from the Contractor and subcontractors. Payroll records shall be submitted with each voucher request for payment. Prevailing wage rates may be obtained from the New Jersey Labor, Division of Workplace Standards, Public Contracts Section, (609-292-2259).

In addition to compliance with the New Jersey Prevailing Wage Act, the County requires compliance with procedures established by Resolution No. 2014-0408 adopted by the Union County Board of Chosen Freeholders on May 8, 2014. The resolution is furnished in Section 51 of these General Specifications.

UNION LABOR IS PREFERRED ON ALL COUNTY WORK

The foregoing reference to specific laws will not be deemed to be a limitation of obligation of the Contractor to perform his obligations in full compliance with the provisions and requirements of all federal and state statutes and local ordinances applicable to the Work to be done under the contract.

It is agreed and understood that any contracts and/or orders placed as a result of this proposal will be governed and construed and the rights and obligations of the parties hereto will be determined in accordance with the laws of the State of New Jersey.

Upon completion of the Work, the Contractor will furnish a Certification of Compliance with the New Jersey Prevailing Wage Act. The certificate in a form acceptable to County Counsel is a condition of the final payment. (See form attached)

22. BRAND NAME OR EQUAL

When the Specifications, Forms, and other Contract Documents use “brand name or equivalent” or similar language, the listed brand name shall serve as a reference or point of comparison for the functional or operational characteristic desired for the goods or services being requested. Where a bidder attempts to submit an equivalent product for a brand name, it shall be the responsibility of the bidder to fully describe and document the product to be provided with the bid in order to establish the equivalence claim.

- A. If the Bidder proposes to offer substitute goods as an equal to those specified herein, the bidder shall so indicate with the Bid Proposal. For the purposes of this paragraph, a proposed item shall be considered equal to goods specified herein if:

1. The County, in its sole discretion, determines that: (i) the goods conform substantially, even with deviations, to the brand name goods specified herein; (ii) the goods are equal to or greater than the brand name goods specified herein in terms of quality, durability, functionality, appearance, strength and design; (iii) the goods are capable, at least as well as the brand name goods specified herein, or performing with existing equipment; and (iv) the goods do not cost the County more than the brand name goods specified herein costs the County.
- B. To offer substitute goods as an equal to those specified herein, it is necessary that:
1. The Bidder submits sufficient information with its bid to permit the County to determine that the goods are equivalent to the brand name goods specified herein, including, but not necessarily limited to the brand, catalog number and specifications/data sheets;
 2. The Bidder fully identifies and describes the variations of the goods from the brand name goods specified herein on a separate sheet that is to be submitted with the bid proposal. Bidder's literature WILL NOT suffice in explaining exceptions to these specifications.
 3. The Bidder certifies that the goods (i) are similar in substance to the brand name goods specified, and (ii) are suited to the same use as the item specified;
- C. The County shall be allowed a reasonable time within which to evaluate the Bidder's proposal to offer substitute goods as an equal to those specified herein. The County shall be the sole judge of acceptability. No "or-equal" goods shall be ordered, delivered, assembled, set-up or utilized until the County's evaluation is complete. The County's determination as to equivalency shall be deemed final and absolute.

In the event the Bidder does not provide sufficient supporting documentation with the bid, it will be presumed and required that the brand name goods and services as described in the specifications will be provided.

23. LINES AND GRADES

Normally, horizontal and vertical control points will be provided in the technical specifications. All other surveying will be the responsibility of the Contractor unless otherwise noted.

24. NUMBER OF WORKING DAYS

In accordance with N.J.S.A. 40A:11-17, the Work for the within Project shall be completed as specified on the Time of Completion Form. See form attached. There shall be taken a deduction from the contract price, or any wages paid by the County, to any inspector(s) necessarily employed by it on the Work, for any number of days in excess of the number allowed in the specifications.

25. PROMPT PAYMENT OF CONSTRUCTION CONTRACTS (NJ Prompt Payment Act)

Pursuant to N.J.S.A. 2A:30A-1 et seq., payment to the Contractor, other than for Work done pursuant to a contact allowance, where applicable, shall be processed and paid as follows:

1. All contractor bills shall be either approved for payment, or notice provided as to why the bill or any portion of it will not be approved by the representative(s) of the governing body no later than the public meeting following 20 calendar days of the billing date as defined in the statute.
2. If the billing is approved, said bill shall be paid in the payment cycle following the meeting.

26. STOPPING WORK ON ACCOUNT OF BAD WEATHER

Work must only be performed in weather suitable for the type of construction planned or underway. Extremes in temperature, humidity, precipitation, evaporation, etc. can detrimentally affect the constructed product. Refer to the Standard and Technical Specifications for specific items.

27. ACCESS FOR OTHER CONTRACTORS

The Contractor for this Work will give proper access to other contractors who may be employed upon the Project and must not hinder or delay unnecessarily any Work that may be progressing under other contracts.

28. CONDEMNED MATERIALS AND WORK

Any materials and or part of the Work that may be condemned by the County Engineer will be removed and replaced by the Contractor or otherwise rectified, as may be directed by the County Engineer. No payment will be made upon the Work until such faulty work has been made good as may be directed. In the event the Contractor refuses or neglects to make good such faulty work, he will be deemed to have abandoned the contract and proceedings may be taken against him as provided herein.

29. STORAGE

In the event that it is necessary for the Contractor to stockpile or store materials or equipment on the job site, the Contractor shall inform the County of such necessity and the County may offer available space, if any, for storage of such materials or equipment. The Contractor shall use said space only for such purpose. Any and all materials which may be stored in such space or which may be brought onto the job site at any time by the Contractor will be at the Contractor's sole risk. The County will not be responsible for loss of or damage to said materials or equipment for any cause whatsoever. The Contractor shall take necessary measures to protect any such storage area and shall be responsible for any and all damages.

30. FINAL CLEAN UP

Upon completion of the Work, the Contractor will remove all equipment, unused materials, rubbish, etc., and will repair, or replace in an a manner acceptable to the County Engineer, all areas that may have been damaged in the prosecution of the Work. Same shall be a condition precedent to final payment. Should said Contractor fail to comply with this requirement, the County shall undertake the clean-up with its own forces and charge the cost of same against the Contractor's contract balance.

31. SUB-LETTING OF WORK

Except for the List of Subcontractors, pursuant to N.J.S.A. 40A:11-16 (See form attached), no portion of the Work will be sublet by the Contractor to any other entities, except with the consent of the County Engineer. A complete list of subcontractors must be submitted to the County Engineer at the preconstruction meeting. If the job does not warrant a preconstruction meeting, the Contractor must submit such list prior to the start of Work.

All Subcontractors will be subject to N.J.S.A. 34:11-56 et al.

N.J.S.A. 40A:11-16 requires the bidder to list in the bid sheets the name or names of all subcontractors involved in the following types of Work: plumbing and gas fitting and all kindred work, steam and hot water heating, ventilating apparatus, steam power plants and kindred work, electrical work, ornamental iron work, and structural steel. In addition, the County may require the identification of specific additional

subcontractors. If these trades are expected to be part of the contract, such subcontractors should be listed on the "Subcontractor Identification Statement List of Subcontractors" and Bidder shall certify same on the accompanying sheet titled "Subcontractor Identification Certification." (See forms attached) **Bidder's failure to submit these two forms shall be considered a material defect and result in rejection of Bidder's bid.** Substitutions of any listed subcontractors pursuant to N.J.S.A. 40A:11-16 will not be permitted except with the consent of the County Engineer.

32. SAFETY

The Contractor shall observe all rules and regulations of the Federal, State, and local health officials. Attention is directed to Federal, State, and local laws, rules, and regulations concerning construction safety and health standards. The Contractor shall not require any worker to work in surroundings or under conditions that are unsanitary, hazardous, or dangerous to the worker's health or safety.

The Contractor shall admit to the site, without delay and without the presentation of an inspection warrant, any inspector of OSHA or other legally responsible agency involved in safety and health administration upon presentation of proper credentials.

The Contractor shall make available to the Contractor's employees, subcontractors, the County Engineer, and the public, all information pursuant to OSHA 29 CFR Part 1926.59 of The Hazard Communication Standard 29 CFR 1910.1200, and shall also maintain a file on each job site containing all Material Safety Data Sheets (MSDS) for products in use at the Project. These Material Safety Data Sheets shall be made available to the Engineer upon request.

The Contractor shall at all times conduct the Work to provide for the safety and convenience of the general public and protection of persons and property. The safety provisions of applicable laws, OSHA regulations, building and construction codes, and the rules and regulations of the New Jersey Department of Labor and Workforce Development and Commerce shall be observed.

33. QUALITY, SAFETY AND PERFORMANCE STANDARDS

All goods and services must be constructed and provided with the highest quality materials and workmanship. It is the intent of these specifications that only equipment equal to, or exceeding, the standard specified will be acceptable in order to protect the safety of the occupants of the Building.

34. MATTERS NOT MENTIONED IN CONTRACT DOCUMENTS

Any Work, material, or method, not specifically described in these specifications, but shown upon the plans of the Work, will be carried out as shown on said plan.

35. PERMITS

The Contractor will obtain all necessary permits required by law and provide the County with necessary approvals prior to commencement of permitted Work.

36. CONTRACTOR TO PROVIDE PROOF OF PAYMENT

Upon the completion of the Work, the Contractor will furnish a General Release as proof that all claims for labor, materials, etc., have been settled by the Contractor. The General Release, in a form acceptable to County Counsel, is a condition of final payment.

37. CHANGE ORDERS

Change Order Procedures shall comply with N.J.A.C. 5:30-11.1 et seq., "Change Orders and Open End Contracts" and subsequent provisions of the New Jersey Administrative Code.

38. SUPPLEMENTAL WORK

In case any supplemental work is necessary, it will be performed by the Contractor at a price fixed by agreement between the Contractor and the County Engineer and approved by the County as specified in Section 36. The Contractor will do no supplemental work on any character, for which the Contractor will demand pay, except upon the written order of the County.

39. FORM OF CONTRACT

The Contract will be subject to all statutory provisions on the matter of Public Works, Public Contracts, The Law Against Discrimination, the Laws Governing Affirmative Action and Prevailing Rates of Wages under the laws of New Jersey.

The Agreements shall be executed by both parties not later than twenty-one (21) days from the date of the award by the County (Sundays and holidays excluded); however, such time frame may be extended by agreement of the parties.

40. PROGRESS PAYMENTS

Monthly progress payments will be made based on the value of labor and materials incorporated in the Work and of materials suitably stored at the site. An itemized schedule of values shall be submitted with each Application for Payment.

(Refer to the Owner/Contractor Agreement for Retainage and other conditions pertaining to payment and the application of N.J.S.A. 2A:30A-1 et seq.)

All Applications for Payment shall be accompanied by paid invoices for materials incorporated in the Work and for materials suitably stored at the site, and affidavit(s) by Subcontractors whose Work was included in the next to the last application to the effect such Work and such materials have been paid for.

No payment shall be made without Contractor having provided all submittals set forth in this Section, and the approval of same by the County.

For contracts exceeding \$100,000.00, monthly payments will be made on the Work to the extent of 98% of the value of the Work done which is considered to be retainage.

For contracts less than \$100,000.00, monthly payments will be on the Work to the extent of 90% of the value of the Work done. In lieu of the retainage, the Contractor will, at his option, deposit with the County Counsel negotiable bearer bonds of the State of New Jersey or any political subdivision thereof, equal to the amount otherwise withheld as retainage.

When the Project is completed, the final cost of the Project will be based on actual quantities of authorized Work done under each item scheduled in the bidding sheet and approved Change Orders, if any. The money due to the Contractor as determined by said final certificate after deduction of previous monthly payments on account, will be paid to the Contractor in accordance with the terms of the contract dealing with Prompt Payment, providing, however that before such final payment is made, all outstanding claims against the Contractor must be satisfied. Before final payment is released, the Contractor must furnish: **a)** Maintenance Bond (see Section 6 of these general specifications); **b)** Certification of Compliance, New Jersey Prevailing Wage Act (see Sections 21 and 51); and **c)** General Release (see Section 36) in a form satisfactory to County Counsel; **d)** complete set of as-built plans in the latest AutoCad on compact disc; and **e)** a complete set of in-progress photos in jpg, jpeg, or bmp digital format on a compact disc.

41. INSPECTION

The Work must be done in accordance with the plans and specifications, and will be inspected by the County Engineer. An inspector may be placed upon the Work at any time by the County Engineer to see that the plans, specifications, and instructions of the County Engineer are carried out. In connection herewith, bidders are referred to N.J.S.A. 40A:11-17.

42. DAMAGES

The Contractor will be held responsible for all damages that may occur to Work, or to persons or property by reason of the nature of the Work or from the elements, or by reason of inadequate protection of the Work, or from any carelessness or negligence on his part or on the part of his employees. The County will withhold payments on the Work until all suits or claims for damages sustained on, or by reason of, this Work will have been settled by the Contractor.

The construction and final completion of this Work will be guaranteed by the Contractor. Any damages that may be done to the Work or any part thereof, by the elements or otherwise, during its construction, will be made good by the Contractor.

43. LIQUIDATED DAMAGES

If the Project is not completed within the time specified herein or within such further time as may have been granted by the County Engineer, then the Contractor hereby agrees to pay to the County as liquidated damages, but not as a penalty, \$1,000.00 per day for each and every calendar day that he is in default on time to complete the Work. The said sum will be deducted from moneys due the Contractor and if the damages exceed this amount, then the Contractor or his Surety Company will pay the excess. These damages may be waived at the option of the County.

44. AFFIRMATIVE ACTION REQUIREMENTS

EXHIBIT B (Revised 4/10)

MANDATORY EQUAL EMPLOYMENT OPPORTUNITY LANGUAGE N.J.S.A. 10:5-31 et seq. (P.L. 1975, C. 127) N.J.A.C. 17:27

CONSTRUCTION CONTRACTS

During the performance of this contract, the contractor agrees as follows:

The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Except with respect to affectional or sexual orientation and gender identity or expression, the contractor will ensure that equal employment opportunity is afforded to such applicants in recruitment and employment, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Such equal employment opportunity shall include, but not be limited to the following: employment, up-grading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this nondiscrimination clause.

The contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex.

The contractor or subcontractor will send to each labor union, with which it has a collective bargaining agreement, a notice, to be provided by the agency contracting officer, advising the labor union or workers' representative of the contractor's commitments under this act and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer, pursuant to N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time and the Americans with Disabilities Act.

When hiring or scheduling workers in each construction trade, the contractor or subcontractor agrees to make good faith efforts to employ minority and women workers in each construction trade consistent with the targeted employment goal prescribed by N.J.A.C. 17:27-7.2; provided, however, that the Division may, in its discretion, exempt a contractor or subcontractor from compliance with the good faith procedures prescribed by the following provisions, A, B and C, as long as the Division is satisfied that the contractor or subcontractor is employing workers

provided by a union which provides evidence, in accordance with standards prescribed by the Division, that its percentage of active "card carrying" members who are minority and women workers is equal to or greater than the targeted employment goal established in accordance with N.J.A.C. 17:27-7.2. The contractor or subcontractor agrees that a good faith effort shall include compliance with the following procedures:

(A) If the contractor or subcontractor has a referral agreement or arrangement with a union for a construction trade, the contractor or subcontractor shall, within three business days of the contract award, seek assurances from the union that it will cooperate with the contractor or subcontractor as it fulfills its affirmative action obligations under this contract and in accordance with the rules promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et. seq., as supplemented and amended from time to time and the Americans with Disabilities Act. If the contractor or subcontractor is unable to obtain said assurances from the construction trade union at least five business days prior to the commencement of construction work, the contractor or subcontractor agrees to afford equal employment opportunities minority and women workers directly, consistent with this chapter. If the contractor's or subcontractor's prior experience with a construction trade union, regardless of whether the union has provided said assurances, indicates a significant possibility that the trade union will not refer sufficient minority and women workers consistent with affording equal employment opportunities as specified in this chapter, the contractor or subcontractor agrees to be prepared to provide such opportunities to minority and women workers directly, consistent with this chapter, by complying with the hiring or scheduling procedures prescribed under (B) below; and the contractor or subcontractor further agrees to take said action immediately if it determines that the union is not referring minority and women workers consistent with the equal employment opportunity goals set forth in this chapter.

(B) If good faith efforts to meet targeted employment goals have not or cannot be met for each construction trade by adhering to the procedures of (A) above, or if the contractor does not have a referral agreement or arrangement with a union for a construction trade, the contractor or subcontractor agrees to take the following actions:

(1) To notify the public agency compliance officer, the Division, and minority and women referral organizations listed by the Division pursuant to N.J.A.C. 17:27-5.3, of its workforce needs, and request referral of minority and women workers;

(2) To notify any minority and women workers who have been listed with it as awaiting available vacancies;

(3) Prior to commencement of work, to request that the local construction trade union refer minority and women workers to fill job openings, provided the contractor or subcontractor has a referral agreement or arrangement with a union for the construction trade;

(4) To leave standing requests for additional referral to minority and women workers with the local construction trade union, provided the contractor or subcontractor has a referral agreement or arrangement with a union for the construction trade, the State Training and Employment Service and other approved referral sources in the area;

(5) If it is necessary to lay off some of the workers in a given trade on the construction site, layoffs shall be conducted in compliance with the equal employment opportunity and non-discrimination standards set forth in this regulation, as well as with applicable Federal and State court decisions;

(6) To adhere to the following procedure when minority and women workers apply or are referred to the contractor or subcontractor:

(i) The contractor or subcontractor shall interview the referred minority or women worker.

(ii) If said individuals have never previously received any document or certification signifying a level of qualification lower than that required in order to perform the work of the construction trade, the contractor or subcontractor shall in good faith determine the qualifications of such individuals. The contractor or subcontractor shall hire or schedule those individuals who satisfy appropriate qualification standards in conformity with the equal employment opportunity and non-discrimination principles set forth in this chapter. However, a contractor or subcontractor shall determine that the individual at least possesses the requisite skills, and experience recognized by a union, apprentice program or a referral agency, provided the referral agency is acceptable to the Division. If necessary, the contractor or subcontractor shall hire or schedule minority and women workers who qualify as trainees pursuant to these rules. All of the requirements, however, are limited by the provisions of (C) below.

(iii) The name of any interested women or minority individual shall be maintained on a waiting list, and shall be considered for employment as described in (i) above, whenever vacancies occur. At the request of the Division, the contractor or subcontractor shall provide evidence of its good faith efforts to employ women and minorities from the list to fill vacancies.

(iv) If, for any reason, said contractor or subcontractor determines that a minority individual or a woman is not qualified or if the individual qualifies as an advanced trainee or apprentice, the contractor or subcontractor shall inform the individual in writing of the reasons for the determination, maintain a copy of the determination in its files, and send a copy to the public agency compliance officer and to the Division.

(7) To keep a complete and accurate record of all requests made for the referral of workers in any trade covered by the contract, on forms made available by the Division and submitted promptly to the Division upon request.

(C) The contractor or subcontractor agrees that nothing contained in (B) above shall preclude the contractor or subcontractor from complying with the union hiring hall or apprenticeship policies in any applicable collective bargaining agreement or union hiring hall arrangement, and, where required by custom or agreement, it shall send journeymen and trainees to the union for referral, or to the apprenticeship program for admission, pursuant to such agreement or arrangement. However, where the practices of a union or apprenticeship program will result in the exclusion of minorities and women or the failure to refer minorities and women consistent with the targeted county employment goal, the contractor or subcontractor shall consider for employment persons referred pursuant to (B) above without regard to such agreement or arrangement; provided further, however, that the contractor or subcontractor shall not be required to employ women and minority advanced trainees and trainees in numbers which result in the employment of advanced trainees and trainees as a percentage of the total workforce for the construction trade, which percentage significantly exceeds the apprentice to journey worker ratio specified in the applicable collective bargaining agreement, or in the absence of a collective bargaining agreement, exceeds the ratio established by practice in the area for said construction trade. Also, the contractor or subcontractor agrees that, in implementing the procedures of (B) above, it shall, where applicable, employ minority and women workers residing within the geographical jurisdiction of the union.

After notification of award, but prior to signing a construction contract, the contractor shall submit to the public agency compliance officer and the Division an initial project workforce report (Form AA 201) electronically provided to the public agency by the Division, through its website, for distribution to and completion by the contractor, in accordance with N.J.A.C. 17:27-7. The contractor also agrees to submit a copy of the Monthly Project Workforce Report once a month thereafter for the duration of this contract to the Division and to the public agency compliance officer.

The contractor agrees to cooperate with the public agency in the payment of budgeted funds, as is necessary, for on-the-job and/or off-the-job programs for outreach and training of minorities and women.

(D) The contractor and its subcontractors shall furnish such reports or other documents to the Division of Public Contracts Equal Employment Opportunity Compliance as may be requested by the Division from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Division of Public Contracts Equal Employment Opportunity Compliance for conducting a compliance investigation pursuant to **Subchapter 10 of the Administrative Code (NJAC 17:27)**.

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45. INVESTMENT ACTIVITIES IN IRAN

Pursuant to P.L. 2012, c.25, codified as N.J.S.A. 2:32-55 et seq., prohibits State and local public contracts with persons or entities engaging in certain investment activities in energy or finance sectors of Iran.

46. COMPLIANCE WITH THE PUBLIC WORKS CONTRACTOR REGISTRATION ACT - (N.J.S.A. 34:11-56.48 et. seq.)

Pursuant to the above-referenced law, Bidders are required to be registered with the New Jersey Department of Labor and Workforce Development and to possess a current certificate by said Department indicating compliance with the Act prior to the time and date that bids are received. Bidders are notified of this requirement of their compliance. Such certificates or applications shall also be provided for each Subcontractor furnishing plumbing and gas fitting, steam and hot water heating and ventilating apparatus, and all kindred work, steam power plants and kindred work, electrical work, structural steel and ornamental iron work, and such other subcontractors as the specifications require relative to prior identification.

47. UTILITIES

Attention of the bidder is directed to the fact that the approximate locations of known utility structures and facilities that may be encountered within and adjacent to the limits of the Work are shown on the plans and described herein. The accuracy and completeness of this information is not guaranteed by the County Engineer and the bidder is advised to ascertain for himself all the facts concerning the location of these and other utilities.

The Contractor will not proceed with his Work until he has made diligent inquiries of all public utility and municipal officials to determine the exact location of all underground structures and pipes within the site of the Project. The Contractor will notify utility owners not less than ten (10) days in advance of the time he proposes to perform any Work that will endanger or affect their facilities in compliance with **New Jersey One-Call**. In excavating in any part of the Work, care must be taken not to remove or damage any gas, water, sewer, or other pipe, conduit, or structure, - public or private - without the concurrence of the owner and the County Engineer. The Contractor will, at his own expense, shore up, secure and maintain a continuous flow in such structures, and will keep them in repair until final acceptance of the Work.

When pipes or other structures are encountered or when the removal, relocation or protection of these utilities are necessary in carrying out the Project as planned, the Contractor will cooperate with the owner of said utilities and will permit the owners or their agents access to the site of the Work in order to relocate or protect their facilities and not hinder or delay unnecessarily the Work of the owners in moving same. No extra allowance of payment will be made to the Contractor for the use of any materials,

equipment, etc., or for the performance of any Work in connection with the moving of said structures unless the Contractor is specifically ordered by the County Engineer to furnish such materials, equipment, or services. If directed by the County Engineer to do any Work or furnish any materials or equipment, payment will be allowed the Contractor in accordance with the unit prices bid for such Work, or, if such items are not scheduled in the proposal, such Work shall be allowed "Supplemental Work" as provided in Section 39 of these general specifications. The corporations, companies, agencies or municipalities owning or controlling the utilities, and the name, and telephone numbers are listed in the beginning of the Technical Specifications.

48. MATERIAL COMPLIANCE AND SHOP DRAWINGS

The Contractor will require the manufacturer or supplier to furnish three (3) copies of Certification of Compliance with each delivery of materials, components and manufactured items for the Project. Two (2) copies will be furnished to the County Engineer; one copy will be retained by the Contractor. Certificates of Compliance will contain the following information:

1. Project to which material is consigned;
2. Name of the Contractor to which the material is supplied;
3. Kind of material supplied;
4. Quantity of material represented by the Certificate;
5. Means of identifying the consignment, such as label marking, seal number, etc.;
6. Date and method of shipment;
7. That the material is in conformity with the pertinent specifications stated in the certificate; and
8. Signature of a person having legal authority to bind the supplier.

The Contractor will submit to the County Engineer for his approval five (5) copies of complete and fully detailed shop or working drawings for those items listed in the beginning of the technical specifications.

Each drawing will identify the name of the job, location and Contractor.

All drawings will be approved in accordance with the standard specifications. Refer to the Technical Specifications for specific items.

All materials or articles used in the Work will be of American manufacture, insofar as same are available, in conformance with N.J.S.A. 40A:11-18.

49. PRECONSTRUCTION

In order to provide full coordination of this Project among the parties concerned, the County Engineer will arrange for a preconstruction meeting between the Contractor, County Engineer and other interested parties as soon as possible after the contract is executed. At this meeting the Contractor will present his proposed schedule of Work

which shall be subject to review and approval of the County through its designated representatives.

50. DISPUTES UNDER THE CONTRACT

A dispute arising under the Contract shall be submitted in writing to the County Engineer with all facts and supporting data. The County Engineer will review the dispute and issue his decision or request additional facts or documentation after which he will render his decision.

In the event the dispute is not then resolved, the matter shall, pursuant to law, be submitted to mediation before being submitted to a court of competent jurisdiction venued in Union County.

The County Engineer will notify the County Counsel when a matter is to be submitted to mediation. The County Counsel will communicate with the parties and inform them of the procedures to be followed in making such a submission.

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51. CONTRACTOR BUSINESS REGISTRATION CERTIFICATE New Mandatory Requirement -Effective 1/18/2010

The recently enacted **P.L. 2009, c.315**, requires that effective January 18, 2010; a contracting agency must receive proof of the bidder's business registration prior to the award of a contract. However, the proof must show that the bidder was in fact registered with the State of New Jersey Department of the Treasury, Division of Revenue and obtained the business registration prior to the receipt of bids.

If subcontractors are named on the bid, proof of the business registration for each subcontractor must be provided prior to the award of bid. Similarly to the bidder, the proof must show that each subcontractor was registered with the State of New Jersey Department of the Treasury, Division of Revenue and obtained the business registration prior to the receipt of bids.

Proof of business registration shall be

- A copy of a Business Registration Certificate issued by the Department of the Treasury, Division of Revenue; or
- A copy of the web version provided by the NJ Division of Revenue, or

Register online at <http://www.state.nj.us/treasury/revenue/busregcert.htm>. Click the "online" link and then select "Register for Tax and Employer Purposes or call the Division at 609-292-1730.

Note: A NJ Certificate of Authority is not acceptable.

FAILURE to submit proof of registration of the bidder or any subcontractor named on the bid prior to the award of contract shall be cause to reject the bid.

FAILURE of the bidder or any subcontractor named on the bid to be registered prior to the receipt of bids is cause for a **MANDATORY REJECTION** of bids. (A NON-WAIVABLE DEFECT). This covers construction Work as well as non-construction bids.

IN ADDITION:

N.J.S.A. 52:32-44 imposes the following requirements on Contractors and all subcontractors that knowingly provide goods or perform services for a Contractor fulfilling this contract:

- 1) the Contractor shall provide written notice to its subcontractors and suppliers to submit proof of business registration to the Contractor;
- 2) subcontractors through all tiers of a project must provide written notice to their subcontractors and suppliers to submit proof of business registration and subcontractors shall collect such proofs of business registration and maintain them on file;
- 3) prior to receipt of final payment from a contracting agency, the Contractor must submit to the contacting agency an accurate list of all subcontractors and suppliers or attest that none was used; and,

- 4) during the term of this contract, the Contractor and its affiliates shall collect and remit, and shall notify all subcontractors and their affiliates that they must collect and remit, to the Director, New Jersey Division of Taxation, the use tax due pursuant to the Sales and Use Tax Act, (*N.J.S.A. 54:32B-1 et seq.*) on all sales of tangible personal property delivered into this State.

A Contractor, subcontractor or supplier who fails to provide proof of business registration or provides false business registration information shall be liable to a penalty of \$25 for each day of violation, not to exceed \$50,000 for each business registration copy not properly provided or maintained under a contract with a contracting agency. Information on the law and its requirements are available by calling (609) 292-9292.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

52. BID PROTEST – LEGAL FEES AND COSTS

In the event a Bidder unsuccessfully challenges a Bid Submission by filing an action in a court of law concerning same, said Bidder shall be responsible for payment of reasonable legal costs and fees incurred by the County relating to said protest.

53. AMERICAN GOODS AND PRODUCTS WHERE POSSIBLE

Bidder shall comply with the requirements of N.J.S.A. 40A:11-18 and use only manufactured and farm products of the United States, wherever available, for the Project.

54. NEW JERSEY PAY-TO-PLAY REQUIREMENTS

This Contract is required by law to be publicly advertised for bids. As such, lists of political contributions pursuant to N.J.S.A. 19:44A-1 et seq. are NOT REQUIRED to be provided with the bids.

55. STATEMENT OF EQUIPMENT TO BE USED IN CONSTRUCTION

Pursuant to N.J.S.A. 40A:11-20 entitled Certificate of Bidder Showing Ability to Perform Contract, the County requires a Certification from all bidders submitting a bid showing that the Bidder owns, leases, or controls all necessary equipment required by the Project Plans and Specifications. All bidders shall provide this information at the time of the bid opening using the attached form entitled, "CERTIFICATE OF BIDDER SHOWING ABILITY TO PERFORM CONTRACT".

If the Bidder is not the actual owner of the equipment, it shall state the source from which the equipment will be obtained and shall attach a certificate from the owner or person in control of the equipment demonstrating that the equipment owner has granted the Bidder control of the requisite equipment during such time as may be necessary for completion of the portion of the contract for which the equipment is necessary.

56. NEW JERSEY SALES AND USE TAX REQUIREMENTS,

Contractors are required to comply with the following:

New Jersey Sales and Use Tax Requirements: All contractors with subcontractors, or any of their affiliates, who enter into contracts for the provision of goods or services with or for New Jersey local government entities, are required to collect and remit to the New Jersey Director of Taxation in the Department of the Treasury the use tax due on all of their sales of tangible personal property delivered into the State of New Jersey pursuant to the "Sales and Use Tax Act," (N.J.S.A. 54:32B-1 et seq.), regardless of whether the tangible personal property is intended for a contract with the contracting agency. This tax shall be remitted for the term of the Contract.

For purposes herein “affiliate” shall mean any entity that: (a) directly, indirectly, or constructively controls another entity, (b) is directly, indirectly, or constructively controlled by another entity, or (c) is subject to the control of a common entity. For purposes of the immediately preceding sentence, an entity controls another entity if it owns, directly or indirectly, more than fifty percent (50%) of the ownership interest in that entity. NJSA 52:32-44(g)(3).

Bidder's Name _____

EDWARD T. OATMAN
COUNTY MANAGER

LAURA M. SCUTARI, QPA, MPA
DIRECTOR / DIVISION OF PURCHASING

BID DOCUMENT SUBMISSION CHECKLIST

**ALL SIGNATURES AND SEALS SHALL BE ORIGINALS UNLESS OTHERWISE SPECIFIED
BID SHEETS SHOULD NOT BE SUBMITTED DOUBLE SIDED PAGES, (SINGLE SIDE ONLY)**

EACH BIDDER SHOULD COMPLETE THIS FORM AND INITIAL EACH ENTRY.

DATE COMPLETED: _____

**PLEASE SUBMIT BID DOCUMENTS ON SINGLE SIDED PAPER ONLY, WITH THE EXCEPTION OF
THE SURETY AND BID BOND DOCUMENTS.**

**IN ACCORDANCE WITH THE BID SPECIFICATIONS I HAVE REVIEWED, COMPLETED / EXECUTED
AND INCLUDED THE FOLLOWING FORMS:**

_____ Bid Form Page (**Signed, Dated and Bid on all alternatives applicable to the Work**).

_____ Security in the form of:

- _____ Bid bond in an amount equal to 10% of the total amount of this bid not to exceed \$20,000.00; or
- _____ Certified check or cashier's check in the amount of 10% of this bid not to exceed \$20,000.00

_____ Consent of Surety form signed by a Surety Company if the total amount of your Bid is over \$36,000.00. If your bid is accepted, the Surety Company that provided the Consent shall be required to furnish a Performance, Labor and Materials Bond in the amount of 100% of the award of the contract.

The County of Union has provided its Consent of Surety form for your use. The use of this form by your Surety Company will expedite the bid review process and eliminate the possibility of having your bid rejected. If, however, you should need to use another form, please use language similar to that used on the Union County form and avoid making any additions or deletions to the Union County form language. In lieu of the Consent of Surety you may submit a Certified Check in the full amount of the bid.

_____ STATEMENT OF BIDDER OWNERSHIP. Pursuant to N.J.S.A. 52:25-24.2, which includes **BOTH** of the following documents:

- Bidder Signature Page
- Bidder Disclosure Statement (**Fill out 2 pages completely**)

_____ SUBCONTRACTOR IDENTIFICATION. Pursuant to N.J.S.A. 40A:11-16, which includes **BOTH** of the following documents:

- Subcontractor Identification Statement: List of Subcontractors (**only for certain types of work**)
- Subcontractor Identification Certification

_____ Acknowledgement of Addendum form: (**This form is to be used only when an addendum has been added to the specifications**).

_____ A copy of the State of New Jersey Department of the Treasury, Division of Revenue, **Business Registration Certificate ("BRC")** should be included with the bids as it must be received by the County prior to the award of the contract. The BRC provided must show that the Bidder was registered at the time of receipt of bids or the bid will be rejected.

_____ A copy of the State of New Jersey Department of the Treasury, Division of Revenue, **Business Registration Certificate ("BRC")** of all named or listed subcontractors (List of Subcontractors) in a Construction bid should be included with the bid as the BRC(s) must be received by the County prior to the award of the contract. Each subcontractor's certificate provided must show that the subcontractor

Bidder's Name _____

- _____ was registered at the time of the receipt of bids or the bid will be rejected.
- _____ Affirmative Action Requirement
- _____ Experience Statement
- _____ Certificate of Bidder showing ability to perform Contract
- _____ Non-Collusion Affidavit – Fill out completely and notarize
- _____ Certificates from New Jersey Department of Labor and Workforce Development – Public Works Contractor Registration Act. **(Only for certain types of work)**
- _____ Federal Attachments **(If applicable)**
- _____ NJDPMC Certificate / Notice of Classification **(If applicable)**
- _____ Americans with Disabilities Act
- _____ Statement of Bidder's Qualifications
- _____ Contractor Performance Record
- _____ Affidavit Regarding List of Debarred, Suspended or Disqualified Bidders
- _____ Prior Negative Experience Questionnaire
- _____ Contractor's Certification of Compliance – New Jersey Prevailing Wage Act
- _____ Uncompleted Contracts Affidavit **(For Bidder, if applicable) MUST ALSO PROVIDE DPMC FORM 701**
- _____ Certificate of Insurance Statement
- _____ Collection of Use Tax on Sales to Local Government Statement
- _____ Time of Completion
- _____ Disclosure of Investment Activities in Iran Certification Form

I HAVE TAKEN THE FOLLOWING ACTIONS:

- _____ Visited the site and attended the Pre-Bid Meeting **(Where applicable)**
- _____ Reviewed the Contract Documents (including any permits the County or its professionals may have obtained), Work, Site, Locality, and Local Conditions and Laws and Regulations that in any manner may affect Cost, Progress, Performance or Furnishing of Work.
- _____ Reviewed Bond Requirements
- _____ Provided Proof of Compliance with New Jersey Prevailing Wage Act
- _____ Reviewed Form of Owner/Contractor Agreement and General Conditions to the Contract

**NOTE: QUESTIONS PERTAINING TO THIS BID ARE TO BE DIRECTED TO DIVISION OF ENGINEERING
AT 908-789-3675**

BIDDING DOCUMENTS

The Bidding Documents consist of the following items:

- **ADDENDA, if issued**
- **CLARIFICATIONS, if issued**
- **INSTRUCTION TO BIDDERS**
- **BID FORM**
- **SPECIFICATIONS:** **As outlined in the Table of Contents and included in the Project Manual.**
- **DRAWINGS:** **As per List of Drawings, indicated on the Project Title Sheet.**

Bidder's Name _____

BID FORM

I/We have carefully examined the plans, specifications, and advertisement for bid for the

**2018 BRIDGE IMPROVEMENT PROGRAM
BA#19-2019; Union County Engineering Project #2017-024**

that is on file in the Union County Division of Engineering. I/We have inspected the site of the work and will contract to do all the work and furnish all materials mentioned in said plans and specifications. Work will be accomplished in the manner prescribed therein.

BASE BID ITEMS:

ITEM	CONTRACT QUANTITY	UNITS	DESCRIPTION	UNIT PRICE	AMOUNT
1	1	LS	MAINTENANCE AND PROTECTION OF TRAFFIC	\$	\$
2	1	LS	CLEARING SITE	\$	\$
3	3	UN	PORTABLE VARIABLE MESSAGE SIGNS	\$	\$
4	430	LF	PRESSURE INJECTION, CONCRETE CRACKS	\$	\$
5	275	SF	REPAIR OF CONCRETE, DECK, TYPE C	\$	\$
6	240	SF	REPAIR OF CONCRETE SUPERSTRUCTURE, TYPE B	\$	\$
7	40	SF	REPAIR OF CONCRETE SUBSTRUCTURE, TYPE B	\$	\$
8	475	SF	REPAIR OF CONCRETE, DECK, TYPE B	\$	\$
9	55	SF	REPAIR OF CONCRETE, DECK, UNDERSIDE, TYPE B	\$	\$
10	150	LF	10" X 20" VERTICAL CURB	\$	\$
11	92	SY	CONCRETE SIDEWALK, 4" THICK	\$	\$
12	104	SY	HOT MIX ASPHALT SIDEWALK, 4" THICK	\$	\$

Bidder's Name _____

ITEM	CONTRACT QUANTITY	UNITS	DESCRIPTION	UNIT PRICE	AMOUNT
13	48	LF	18" REINFORCED CONCRETE PIPE, CLASS V	\$	\$
14	18	SF	REGULATORY WARNING SIGNS	\$	\$
15	370	LF	BRIDGE DECK JOINT REPAIR	\$	\$
16	--	--	NO ITEM	\$0.00	\$0.00
17	1	ALLOWANCE	MUNICIPAL POLICE TRAFFIC DIRECTOR ALLOWANCE	\$50,000.00	\$ 50,000.00
18	150	LF	BEAM GUIDE RAIL	\$	\$
19	43	SY	HOT MIX ASPHALT PAVEMENT REPAIR	\$	\$
20	210	CY	EXCAVATION, UNCLASSIFIED	\$	\$
21	70	LF	24" REINFORCED CONCRETE, CLASS III	\$	\$
22	110	SY	TOPSOIL, 4" THICK	\$	\$
23	110	SY	FERTILIZE AND SEEDING, TYPE A-3	\$	\$
24	470	SY	RIPRAP STONE PROTECTION, 24" THICK (D50 = 12")	\$	\$
25	30	CY	I-13 SOIL AGGREGATE	\$	\$
26	30	LF	BRIDGE FENCING	\$	\$
27	335	CY	DEBRIS REMOVAL	\$	\$
28	161	SF	MASONRY REPOINTING	\$	\$
29	10	SY	CONCRETE DRIVEWAY APRON, 6" THICK	\$	\$

Bidder's Name _____

ITEM	CONTRACT QUANTITY	UNITS	DESCRIPTION	UNIT PRICE	AMOUNT
30	20	CY	BORROW TOPSOIL (IF & WHERE DIRECTED)	\$	\$
31	60	CY	FLOWABLE FILL	\$	\$
32	1	LS	RECONSTRUCT WINGWALL	\$	\$
33	150	LF	FLOATING TURBIDITY BARRIER (IF & WHERE DIRECTED)	\$	\$
34	300	LF	SILT FENCE (IF & WHERE DIRECTED)	\$	\$
35	5	UN	INLET PROTECTION (IF & WHERE DIRECTED)	\$	\$

Written

Figures

BID CONTINGENCY: (To be used if and when directed by the County)

ONE HUNDRED THOUSAND DOLLARS AND NO CENTS
Written

\$100,000.00
Figures

TOTAL BASE BID ITEMS PLUS BID CONTINGENCY AMOUNT:

Written

Figures

NOTE: Bid Contingency may include one-half of one percent of contract amount set aside for local training if and when directed by the County.

Bidder's Name _____

CONSENT OF SURETY
TO ACCOMPANY PROPOSAL (BID)

_____ (hereinafter called Surety), organized and existing under the laws of the State of _____ duly authorized and qualified to transact business in the State of New Jersey, in consideration of the sum of One Dollar (\$1.00), lawful money of the United States of America, to it in hand paid, receipt whereof is hereby acknowledged, and in consideration, hereby certifies and agrees that if the contract for which the attached proposal is made be awarded to _____ (hereinafter called Contractor) for the performance of certain work and labor or the supplying of certain materials, or both, as more particularly set forth in said proposal and described for purposes of this instrument as a proposal for _____ to the COUNTY OF UNION and if Contractor shall enter into the contract, Surety will become bound as surety for its faithful performance, labor and material payment and will provide the Contractor with a performance, labor and material payment bond in the full amount of the contract price.

NOTE:
Expiration date
Needed if Annual
Surety

NAME OF INSURANCE COMPANY

ADDRESS: _____

ORIGINAL SIGNATURE
ATTORNEY-IN-FACT FOR INSURANCE CO.

NOTE: PROOF OF AUTHORITY OF OFFICERS OF SURETY COMPANY TO EXECUTE THIS DOCUMENT MUST BE SUBMITTED.

Bidder's Name _____

BIDDER SIGNATURE PAGE

THE BIDDER MUST READ THE FOLLOWING INSTRUCTIONS TO COMPLETE THIS PAGE:

1. If doing business under a **trade name, partnership or a sole proprietorship**, you must submit the bid under exact title of the trade name, partnership, or proprietorship, and the bid must be signed by either the **owner**, or a **partner** and **witnessed** by a **notary public**.
2. If a **Corporation**, the bid must be signed by the **President** or **Vice President** and **witnessed** by a **Corporate Secretary** (corporate title must be exact) and **affix corporate seal**. If a Corporate Secretary does not exist, President or Vice President's signature shall be witnessed by a Notary Public.
3. Other persons **authorized** by **corporate resolution** to execute agreements in its behalf may also sign the bid documents (pages). **Copy of a resolution must accompany the bid.**
4. The person who signs this bid form **must also** sign the **Non-Collusion Affidavit**.
5. You **cannot** witness your own signature.

NAME OF BIDDER

ADDRESS OF BIDDER

**ORIGINAL SIGNATURE
CORPORATE SECRETARY**

**PRINT NAME AND TITLE
CORPORATE SECRETARY**

TEL: _____
FAX: _____
E-Mail: _____

BY: _____
ORIGINAL SIGNATURE

Corporate Seal

PRINT OR TYPE NAME AND TITLE

WARNING: IF YOU FAIL TO FULLY, ACCURATELY, AND COMPLETELY SUPPLY THE INFORMATION REQUESTED ON THIS PAGE, YOUR BID MAY BE REJECTED.

STATEMENT OF OWNERSHIP DISCLOSURE

N.J.S.A. 52:25-24.2 (P.L. 1977, c.33, as amended by P.L. 2016, c.43)

This statement shall be completed, certified to, and included with all bid and proposal submissions. Failure to submit the required information is cause for automatic rejection of the bid or proposal.

Name of Organization: _____

Organization Address: _____

Part I Check the box that represents the type of business organization:

- Sole Proprietorship (skip Parts II and III, execute certification in Part IV)
- Non-Profit Corporation (skip Parts II and III, execute certification in Part IV)
- For-Profit Corporation (any type) Limited Liability Company (LLC)
- Partnership Limited Partnership Limited Liability Partnership (LLP)
- Other (be specific): _____

Part II

The list below contains the names and addresses of all stockholders in the corporation who own 10 percent or more of its stock, of any class, or of all individual partners in the partnership who own a 10 percent or greater interest therein, or of all members in the limited liability company who own a 10 percent or greater interest therein, as the case may be. **(COMPLETE THE LIST BELOW IN THIS SECTION)**

OR

No one stockholder in the corporation owns 10 percent or more of its stock, of any class, or no individual partner in the partnership owns a 10 percent or greater interest therein, or no member in the limited liability company owns a 10 percent or greater interest therein, as the case may be. **(SKIP TO PART IV)**

(Please attach additional sheets if more space is needed):

Bidder's Name _____

Name of Individual or Business Entity	Home Address (for Individuals) or Business Address

Part III DISCLOSURE OF 10% OR GREATER OWNERSHIP IN THE STOCKHOLDERS, PARTNERS OR LLC MEMBERS LISTED IN PART II

If a bidder has a direct or indirect parent entity which is publicly traded, and any person holds a 10 percent or greater beneficial interest in the publicly traded parent entity as of the last annual federal Security and Exchange Commission (SEC) or foreign equivalent filing, ownership disclosure can be met by providing links to the website(s) containing the last annual filing(s) with the federal Securities and Exchange Commission (or foreign equivalent) that contain the name and address of each person holding a 10% or greater beneficial interest in the publicly traded parent entity, along with the relevant page numbers of the filing(s) that contain the information on each such person. **Attach additional sheets if more space is needed.**

Website (URL) containing the last annual SEC (or foreign equivalent) filing	Page #'s

Please list the names and addresses of each stockholder, partner or member owning a 10 percent or greater interest in any corresponding corporation, partnership and/or limited liability company (LLC) listed in Part II **other than for any publicly traded parent entities referenced above.** The disclosure shall be continued until names and addresses of every non-corporate stockholder, and individual partner, and member exceeding the 10 percent ownership criteria established pursuant to N.J.S.A. 52:25-24.2 has been listed. **Attach additional sheets if more space is needed.**

Bidder's Name _____

Stockholder/Partner/Member and Corresponding Entity Listed in Part II	Home Address (for Individuals) or Business Address

Part IV Certification

I, being duly sworn upon my oath, hereby represent that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I acknowledge: that I am authorized to execute this certification on behalf of the bidder/proposer; that the **County of Union** is relying on the information contained herein and that I am under a continuing obligation from the date of this certification through the completion of any contracts with **County of Union** to notify the **County of Union** in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I am subject to criminal prosecution under the law and that it will constitute a material breach of my agreement(s) with the, permitting the **County of Union** to declare any contract(s) resulting from this certification void and unenforceable.

Full Name (Print):		Title:	
Signature:		Date:	

SUBCONTRACTOR IDENTIFICATION STATEMENT

LIST OF SUBCONTRACTORS

This form is ONLY required for plumbing and gas fitting, steam and hot water heating and ventilating apparatus, steam power plants, electrical work, structural steel, ornamental iron work, and any other trades required to be identified by the specifications (including, but not limited, to satisfying any DPMC Classification requirements).

CHECK THIS BOX IF NONE OF THE ABOVE LISTED TRADES OR THOSE REQUIRED TO BE IDENTIFIED IN THE SPECIFICATIONS ARE TO BE USED TO PERFORM THE WORK

In compliance with N.J.S.A. 40A:11-16 and the bid specifications, the undersigned hereby lists the name or names of the following subcontractors:

Company Name: _____

Address: _____

Telephone: _____ Subcontract Amount: \$ _____

Specific Scope of Work Subcontracted: _____

License No. _____

Company Name: _____

Address: _____

Telephone: _____ Subcontract Amount: \$ _____

Specific Scope of Work Subcontracted: _____

License No. _____

Company Name: _____

Address: _____

Telephone: _____ Subcontract Amount: \$ _____

Specific Scope of Work Subcontracted: _____

License No. _____

IF MORE THAN THREE SUBCONTRACTORS, PLEASE COPY THIS SHEET AS NECESSARY AND ATTACH TO THE BID PACKAGE.

(Continued on following page)

Bidder's Name _____

SUBCONTRACTOR IDENTIFICATION CERTIFICATION

Note the law does not permit the listing of alternate subcontractors. However, multiple subcontractors for the same trade are permitted to be named provided the bidder meets the following requirements:

- Bidder identifies each subcontractor named for that category;
- Bidder states the scope of work, goods and services (the portion of the work) to be performed by each subcontractor; and
- Bidder provides the price quote provided by each subcontractor.

The bidder is advised that any change of subcontractor(s) from ones listed herein is subject to the County's approval. Change of subcontractor(s) will be approved only if made for good cause and not as a result of an arbitrary purpose.

The undersigned Bidder certifies and declares that the subcontractors listed above shall be used as subcontractors to complete certain portions of the work in this project as set forth in N.J.S.A. 40A: 11-16.

Witness

Date _____

NAME OF BIDDER

ADDRESS

By: _____
ORIGINAL SIGNATURE ONLY

PRINT NAME AND TITLE

Bidder's Name _____

ACKNOWLEDGMENT OF ADDENDUM

COUNTY OF UNION

(Name of Construction /Public Works Project)

(Project or Bid Number)

Pursuant to N.J.S.A. 40A:11-23.1a., the undersigned bidder, hereby acknowledges receipt of the following notices, revisions, or addenda to the bid advertisement, specifications or bid documents. By indicating date of receipt, bidder acknowledges the submitted bid takes into account the provisions of the notice, revision or addendum. Note that the County of Union's record of notice to bidders shall take precedence and that failure to include provisions of changes in a bid proposal may be subject for rejection of the bid.

Local Unit Reference Number or Title of Addendum/Revision	How Received (mail, fax, pick- up, etc.)	Date Received

ACKNOWLEDGMENT BY BIDDER:

NAME OF BIDDER: _____

ORIGINAL SIGNATURE: _____

PRINTED NAME AND TITLE: _____

DATE: _____

CONTRACTOR BUSINESS REGISTRATION CERTIFICATE

New Mandatory Requirement - Effective 1/18/2010

The recently enacted **P.L. 2009, c.315**, requires that effective January 18, 2010; a contracting agency must receive proof of the bidder's business registration prior to the award of a contract. However, the proof must show that the bidder was in fact registered with the State of New Jersey Department of the Treasury, Division of Revenue and obtained the business registration prior to the receipt of bids.

If subcontractors are named on the bid, proof of the business registration for each subcontractor must be provided prior to the award of bid. Similarly to the bidder, the proof must show that each subcontractor was registered with the State of New Jersey Department of the Treasury, Division of Revenue and obtained the business registration prior to the receipt of bids.

Proof of business registration shall be

- A copy of a Business Registration Certificate issued by the Department of the Treasury, Division of Revenue; or
- A copy of the web version provided by the NJ Division of Revenue, or

Register online at www.nj.gov/treasury/revenue/taxreg.htm. Click the "online" link and then select "Register for Tax and Employer Purposes or call the Division at 609-292-1730.

Note: A NJ Certificate of Authority is not acceptable.

FAILURE to submit proof of registration of the bidder or any subcontractor named on the bid prior to the award of a contract shall be cause to reject the bids.

FAILURE of the bidder or any subcontractor named on the bid to be registered prior to the receipt of bids is cause for a **MANDATORY REJECTION** of bids. (A NON-WAIVABLE DEFECT). This covers construction work as well as non-construction bids.

IN ADDITION:

The contractor shall provide written notice to all **subcontractors and suppliers** not specifically named on the bid of the responsibility to register and submit proof of business registration to the contractor. The requirement of proof of business registration extends down through all levels (tiers) of the project.

Before final payment on the contract is made by the contracting agency, the contractor shall submit an accurate list and the proof of business registration of each subcontractor or supplier used in the fulfillment of the contract, or shall attest that no subcontractors were used.

For the term of the contract, the contractor and each of its affiliates and a subcontractor and each of its affiliates [N.J.S.A. 52:32-44(g)(3)] shall collect and remit to the Director, New Jersey Division of Taxation, the use tax due pursuant to the Sales and Use Tax Act on all sales of tangible personal property delivered into this State, regardless of whether the tangible personal property is intended for a contract with a contracting agency.

A business organization that fails to provide a copy of a business registration as required pursuant to section 1 of P.L.2001,c.134 (C.52:32-44 et al.) or subsection e. or f. of section 92 of P.L.1977,c.110 (C.5:12-92), or that provides false business registration information under the requirements of either of those sections, shall be liable for a penalty of \$25 for each day of violation, not to exceed \$50,000 for each business registration copy not properly provided under a contract with a contracting agency.

BUSINESS REGISTRATION
Mandatory Requirement

P.L. 2009, c.315, requires that effective January 18, 2010; a contracting agency must receive proof of the bidder's business registration prior to the award of a contract. However, the proof must show that the bidder was in fact registered with the State of New Jersey Department of the Treasury, Division of Revenue and obtained the business registration prior to the receipt of bids.

If subcontractors are named on the bid, proof of the business registration for each must be provided prior to the award of a contract. Similarly to the bidder, the proof must show that each subcontractor was registered with the State of New Jersey Department of the Treasury, Division of Revenue and obtained the business registration prior to the receipt of bids.

Proof of business registration shall be:

- A copy of a Business Registration Certificate issued by the Department of Treasury, Division of Revenue; or
- A copy of the web printed version provided by the NJ Division of Revenue

STATE OF NEW JERSEY
BUSINESS REGISTRATION CERTIFICATE
FOR STATE AGENCY AND CASINO SERVICE CONTRACTORS

DEPARTMENT OF TREASURY
DIVISION OF REVENUE
10000 TRENTON, NJ 08646

TAXPAYER NAME: TAX REGISTRATION TEST ACCOUNT
TRADE NAME: TAX REG TEST ACCOUNT
TAX REGISTRATION TEST ACCOUNT
CLIENT REGISTRATION
TAXPAYER IDENTIFICATION#: 010-007-382/000
SEQUENCE NUMBER: 0107530
ADDRESS: 847 ROEBLING AVE
TRENTON NJ 08611
ISSUANCE DATE: 07/14/04
EFFECTIVE DATE: 01/01/04
FORM-BRC(D-04)

John S. Eudy
Authorized Representative

STATE OF NEW JERSEY
BUSINESS REGISTRATION CERTIFICATE

Taxpayer Name: TAX REG TEST ACCOUNT
Trade Name:
Address: 847 ROEBLING AVE
TRENTON, NJ 08611
Certificate Number: 1093907
Date of Issuance: October 14, 2004

For Office Use Only:
20041014112823533

ATTACH BRC HERE

Bidder's Name _____

AFFIRMATIVE ACTION REQUIREMENT

REQUIRED AFFIRMATIVE ACTION EVIDENCE

General Requirements of P.L. 1975, c. 127: You are hereby put on notice that:

CONSTRUCTION CONTRACTS: The successful contractor must submit within three (3) days of the notice of intent to award or the signing of the contract the initial project manning report (A.A.201). This report should be submitted at the time the signed contract is returned to the County of Union. Attention: *Affirmative Action Officer*.

If the successful contract does not submit the initial project manning report (A.A.201) within the three (3) days from the time the signed contract is returned to the County of Union, the County of Union WILL declare the contractor non-responsive and award the contract to the next lowest responsible bidder.

NAME OF BIDDER

ORIGINAL SIGNATURE

PRINT OR TYPE NAME AND TITLE

DATE THIS FORM IS COMPLETED

Bidder's Name _____

EXPERIENCE STATEMENT

I hereby certify that my company has performed the following private or public work, which is relevant to this bid. I further certify that my company has never defaulted under any contract. Should you not sign this form due to prior defaults, please provide details on an attached sheet.

Witness

Date

NAME OF BIDDER

ADDRESS

By: _____
ORIGINAL SIGNATURE ONLY

PRINT NAME AND TITLE

YOU MAY ATTACH ADDITIONAL SHEETS, BUT YOU MUST SIGN AND WITNESS THIS SHEET.

Bidder's Name _____

NON-COLLUSION AFFIDAVIT

(N.J.S.A. 52:34-15)

STATE OF _____)
) SS: _____
COUNTY OF _____)

I _____, of the City of _____, in the County of _____, and the State of _____, of full age, being duly sworn according to law, on my oath depose and say that: I am _____ of the firm of _____, the bidder making the proposal for the above named project, and that I executed the said proposal for the above named project, and that I executed the said proposal with full authority to do so; that said bidder has not, directly or indirectly, entered into any agreement, participation in any collusion, or otherwise taken any action in restraint of free, competitive bidding in connection with the above named project; and that all statements contained in said proposal and in this Affidavit are true and correct, and made with full knowledge that the COUNTY OF UNION, NEW JERSEY relies upon the truth of the statements contained in said proposal and in the statements contained in the affidavit in awarding the contract for the said project.

I further warrant that no person or selling agency has been employed or retained to solicit or secure such contract upon an agreement or understanding for a commission, percentage, brokerage or contingent fee, except bona fide employees or bonafide established commercial or selling agencies maintained by _____ (N.J.S.A. 52:34-15).

NAME OF BIDDER

ORIGINAL SIGNATURE ONLY

NOTE: The person who signed the bidder signature page for the bidder should sign this form also.

Subscribed and sworn before me
this _____ day of _____, 20____.

Notary Public of the State of _____
My commission expires: _____

WARNING: IF YOU FAIL TO FULLY, ACCURATELY, AND COMPLETELY FILL OUT THIS AFFIDAVIT OF NON-COLLUSION, YOUR BID MAY BE REJECTED.

Contractor Registration Advisement
For Public Works Projects

A new law, known as "The Public Works Contractor Registration Act" (P.L. 1999, c.238), became effective April 11, 2000. Under the Act, no contractor/subcontractor will be permitted to bid on or engage in any contract for public work, as defined in Section 2 of P.L. 1963, c.150 (C:34:11-56.26), unless that contractor/subcontractor is registered with the New Jersey Department of Labor and Workforce Development. The Act provides that upon registration with the Department, a public works contractor/subcontractor will be issued a certificate by the Department indicating compliance with the Act's requirements. The registration fee has been set at \$300.00 per year. Upon the effective date of the Act, public bodies will be expected to request production of such a certificate from those bidding on or engaging in public works projects.

It is important to note that the term "contractor," is defined in the, Act as, "a person, partnership, association, joint stock company, trust, corporation or other legal business entity or successor thereof who enters into a contract which is subject to the provision of the "New Jersey Prevailing Wage Act," P.L. 1963, c.150 (C.34:11-56.25, et seq.) for the construction, reconstruction, demolition, alteration, repair or maintenance of a public building regularly open to and used by the general public or a public institution, and includes any subcontractor or lower tier subcontractor as defined herein: except that, for the purposes of the act, no pumping station, treatment plant or other facility associated with utility and environmental construction, reconstruction, demolition, alteration, repair or maintenance shall be regarded as a public building regularly open to and used by the general public or a public institution."

Registration forms, copies of the Act, and other relevant information can be obtained by contacting:

Contractor Registration Unit
New Jersey Department of Labor and Workforce Development
Division of Wage & Hour Compliance
PO Box 389
Trenton, New Jersey 08625-0389
Telephone: 609-292-9464
Fax: 609-633-8591
E-mail: contreg@dol.state.nj.us

AMERICANS WITH DISABILITIES ACT
EQUAL OPPORTUNITY FOR INDIVIDUALS WITH DISABILITIES

The contractor and the County of Union (hereafter "Owner") do hereby agree that the provisions of Title II of the Americans With Disabilities Act of 1990 (the "Act") (42 U.S.C. S12101 et seq.), which prohibits discrimination on the basis of disability by public entities in all services, programs and activities provided or made available by public entities, and the rules and regulations promulgated pursuant thereto, are made a part of this contract. In providing any aid, benefit, or service on behalf of the Owner pursuant to this contract, the contractor agrees that the performance shall be in strict compliance with the Act. In the event the contractor, its agents, servants, employees, or subcontractors violate or are alleged to have violated the Act during the performance of this contract, the contractor shall defend the Owner in any action or administrative proceeding commenced pursuant to this Act. The contractor shall indemnify, protect, and save harmless the Owner, its agents, servants, and employees from and against any and all suits, claims, losses, demands, or damages of whatever kind or nature arising out of or claimed to arise out of the alleged violation. The contractor shall, at its own expense, appear, defend, and pay any and all charges for legal services and any and all costs and other expenses arising from such action or administrative proceeding or incurred in connection therewith. In any and all complaints brought pursuant to the Owner's grievance procedure, the contractor agrees to abide by any decision of the Owner which is rendered pursuant to said grievance procedure. If any action or administrative proceeding results in an award of damages against the Owner, or if the Owner incurs any expense to cure a violation of the ADA which has been brought pursuant to its grievance procedure, the contractor shall satisfy and discharge the same at its own expense.

The Owner shall, as soon as practicable after a claim has been made against it, give written notice thereof to the contractor along with full and complete particulars of the claim. If any action or administrative proceeding is brought against the Owner or any of its agents, servants, and employees, the Owner shall expeditiously forward or have forwarded to the contractor every demand, complaint, notice, summons, pleading, or process received by the Owner or its representatives.

It is expressly agreed and understood that any approval by the Owner of the services provided by the contractor pursuant to this contract will not relieve the contractor of the obligation to comply with the Act and to defend, indemnify, protect, and save harmless the Owner pursuant to this paragraph.

It is further agreed and understood that the Owner assumes no obligation to indemnify or save harmless the contractor, its agents, servants, employees and subcontractors for any claim which may arise out of their performance of this Agreement. Furthermore, the contractor expressly understands and agrees that the provisions of this indemnification clause shall in no way limit the contractor's obligations assumed in this Agreement, nor shall they be construed to relieve the contractor from any liability, nor preclude the Owner from taking any other actions available to it under any other provisions of this Agreement or otherwise at law.

Name _____ (Please print or type)

Signature _____ Date _____

STATEMENT OF BIDDER'S QUALIFICATIONS

All questions must be answered and the data given must be clear and comprehensive. This statement must be notarized. Questions may be answered on separate attached sheets. The Bidder may submit any additional information it desires.

1. _____
(Name of Bidder)

2. _____
(Permanent Main Office Address)

3. _____
(When Organized)

4. _____
(If a Corporation, where incorporated)

5. Number of years your organization has been engaged in construction or contracting business under present firm or trade name? _____

6. How many years of experience in construction work has your organization had (a) as a general contractor? And/or (b) As a subcontractor? _____

7. Contracts on hand: (Attach a list or table showing gross amounts of each Contract and the appropriate dates of completion) _____

8. General character of work performed by you. _____

9. Have you ever failed to complete any work awarded to you? _____

10. Have you ever defaulted on a Contract? _____ If so, complete details, including where and why?

STATEMENT OF BIDDER'S QUALIFICATIONS - (continued)

11. Has any officer or partner of your organization ever failed to complete a construction contract handled in its own name? If so, state name of individual, name of owner, location and type of project, and reason for the failure to complete. _____

12. List your major equipment available for this Contract.

13. Experience in the construction work similar in importance to this Project.

14. Have you had any material adverse changes from the trades as listed in NJ Notice of Classification within last five (5) years? _____. If so, list prior classification.

15. Background and experience of the principal members of your organization, including the officers.

Individual's Name	Present Position or Office	Yrs. of Construction Experience	Magnitude & Type of Work	In What Capacity

Bidder's Name _____

16. Bank Reference. (Name, Address, Phone, Representative) _____
17. Will you, upon request, fill out a detailed financial statement? _____
18. The undersigned, hereby authorizes and requests any person, firm or corporation to furnish any information requested by the proper agency in verification of the responses comprising this Statement of Bidder's Qualifications.
19. Bidder's telephone number, fax number and e-mail address (if applicable).
- Phone _____
- Fax _____
- E-mail _____
- Mobile _____

Dated at _____ this _____ day of _____, 20__.

BIDDER (Signature)

BIDDER (Print Name)

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

(Seal) Notary Public of New Jersey/
Specify Other State
My Commission Expires _____, 20__.

**NOTE: FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WITH
YOUR PROPOSAL MAY RESULT IN A REJECTION OF YOUR BID.**

Bidder's Name _____

CONTRACTOR PERFORMANCE RECORD

List all contracts completed by you below or provide separate form.

Name of Owner	Name & Location of Project: Type Of Work	Prime or Sub-Cont.	Engineer or Architect in Charge for Owner	Contract Price (Omit Cost)	Date Completed	Was Time* Extension Necessary	Were Any Penalties Imposed	Were Liens* Claims or Stop Notice Filed

* If answer is YES, provide explanation of details in connection with non-completion of contracts, time extensions, penalties imposed, labor troubles, liens, claims and notices filed against contracts listed in preceding item "Performance Record" on an attached sheet.

NOTE: FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WITH YOUR PROPOSAL MAY RESULT IN A REJECTION OF YOUR BID.

Bidder's Name _____

CONTRACTOR PERFORMANCE RECORD
CERTIFICATION

The information above is true and complete to the best of my knowledge and belief.

(Name of Organization)

(Signature)

(Title)

Subscribed and sworn to before me

this _____ day of _____, 20__.

(Seal) Notary Public of New Jersey/
Specify Other State

My Commission Expires _____, 20__.

PRIOR NEGATIVE EXPERIENCE QUESTIONNAIRE

(N.J.S.A. 40A:11-4)

1. Within the past ten (10) years, have you been found, through either court adjudication, arbitration, mediation, or other contractually stipulated alternate dispute resolution mechanism, to have: failed to provide or perform goods or services; or failed to complete a contract in a timely manner; or otherwise performed unsatisfactorily under a prior contract with a public entity?

_____ yes _____ no If yes, please provide full, detailed explanation.

2. Within the past ten (10) years, have you defaulted on a contract, thereby requiring a public entity to utilize the services of another contractor to provide the goods or perform the services or to correct or complete the contract?

_____ yes _____ no If yes, please provide full, detailed explanation.

3. Within the past ten (10) years, have you defaulted on a contract, thereby requiring a public entity to look to your surety for completion of the contract or tender of the costs of completion?

_____ yes _____ no If yes, please provide full, detailed explanation.

4. Within the past ten (10) years, have you been debarred or suspended from contracting with any of the agencies or department of the executive branch of the State of New Jersey at the time of the contract award, where the action was based on failure to perform a contract for goods or services with a public entity?

_____ yes _____ no If yes, please provide full, detailed explanation.

Bidder's Name _____

PRIOR NEGATIVE EXPERIENCE CERTIFICATION

I hereby certify that the above statements are true and accurate as of this _____
day of _____, 20__.

Name of Contractor

By _____
(Signature of Authorized Representative)

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

(Seal) Notary Public of New Jersey/
Specify Other State

My Commission Expires _____, 20__.

NOTE: FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WITH YOUR PROPOSAL MAY RESULT IN A REJECTION OF YOUR BID.

TO BE COMPLETED ONLY WHEN FINAL PAYMENT IS REQUESTED

CONTRACTOR'S CERTIFICATION OF COMPLIANCE - NEW JERSEY PREVAILING WAGE ACT

TO: County of Union
Division of Engineering
2325 South Avenue
Scotch Plains, New Jersey 07076

CONTRACT:

PROJECT:

In accordance with the requirements of the New Jersey Prevailing Wage Act, N.J.S.A. 34:11-56 et al *, the undersigned contractor on the public work being performed for:

COUNTY OF UNION

hereby certifies that he/she has complied with the contract requirements regarding the payment of the minimum prevailing wages established under "The New Jersey Prevailing Wage Act" N.J.S.A. 34:11-56 et al.

CONTRACTOR: _____
ADDRESS: _____

BY: _____

ORIGINAL SIGNATURE ONLY

STATE OF NEW JERSEY
COUNTY OF _____

Being by me duly sworn according to law, on his oath deposes and says that _____ is _____ of _____ the above named contractor, and that the facts set forth in the above statement are true.

Subscribed and sworn before me
this ____ day of _____, 200__.

Notary Public: _____
My Commission Expires: _____

* N.J.S.A. 34:11-56.33 requires the contractor and subcontractor to file written statements with the public body in form satisfactory to the Commissioner certifying to the amounts then due and owing from such contractor and subcontractor filing such statement to any and all workmen for wages due on account of the public work, setting forth therein the names of the persons whose wages are unpaid and the amount due to each respectively. Union County will withhold the amount so deducted for the benefit of the workmen whose wages are unpaid as shown by the verified statement filed, and will pay directly to any workman the amount shown by such statement to be due to him for such wages. Such payment shall thereby discharge the obligation of the contractor to the person receiving such payment to the extent of the amount thereof.

Bidder's Name _____

UNCOMPLETED CONTRACTS AFFIDAVIT
(To be submitted with DPMC Form 701)

PURSUANT TO N.J.A.C. 17:19-2.13, BIDDER DECLARES THE FOLLOWING WITH RESPECT TO ITS UNCOMPLETED CONTRACTS, ON ALL WORK, FROM WHATEVER SOURCE (PUBLIC AND PRIVATE), BOTH IN NEW JERSEY AND FROM OTHER GOVERNMENTAL JURISDICTIONS

ENTITY	PROJECT TITLE	ORIGINAL CONTRACT AMOUNT	UNCOMPLETED AMOUNT AS OF BID OPENING DATE	NAME AND TELEPHONE NUMBER OF PARTY TO BE CONTACTED FRM ENTITY FOR VERIFICATION

TOTAL AMOUNT OF UNCOMPLETED CONTRACTS \$ _____

Sworn and Subscribed to Before me

This _____ day of _____, 20____

Notary Public

BIDDER:

(Signature)

(Print Name)

NOTE: FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WITH YOUR PROPOSAL MAY RESULT IN A REJECTION OF YOUR BID.

Bidder's Name _____

CERTIFICATE OF INSURANCE STATEMENT

The Bidder fully understands the County of Union insurance requirements as stated in the Instructions to Bidders as well as the Owner/Contractor Agreement and agrees to provide all insurance required by these documents prior to the issuance of the Notice to Proceed.

BIDDER (Signature)

BIDDER (Print Name)

NOTE: FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WITH YOUR PROPOSAL MAY RESULT IN A REJECTION OF YOUR BID.

Bidder's Name _____

COLLECTION OF USE TAX ON SALES TO LOCAL GOVERNMENTS STATEMENT

The Bidder fully understands the requirements of the use tax on sales to local governments as stated in the General Conditions to the Contract for Construction and the Instructions to Bidders, and agrees at all times to comply with the "Contractor Use Tax Collection Legislation", as defined therein, and the terms relating thereto contained in the Contract Documents.

BIDDER (Signature)

BIDDER (Print Name)

NOTE: FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WITH YOUR PROPOSAL MAY RESULT IN A REJECTION OF YOUR BID.

Bidder's Name _____

TIME OF COMPLETION

The undersigned proposed that if awarded the Contract, the scope of work will be started within ten (10) calendar days and will be substantially completed within **One Hundred Twenty (120) calendar days** from the date of the notice to proceed.

I, _____ of _____
NAME (Print or type) COMPANY

Agree to complete work in the time frame specified _____
SIGNATURE

SITE VISIT – GENERAL CONTRACTOR

I, _____ of _____
NAME (Print or type) COMPANY

Visited the site of the work on _____
SIGNATURE

Bidder's Name _____

**COUNTY OF UNION NEW JERSEY
Division of Purchasing
DISCLOSURE OF INVESTMENT ACTIVITIES IN IRAN FORM**

Solicitation Number: _____

Vendor/Bidder: _____

PART 1

CERTIFICATION

VENDOR/BIDDER MUST COMPLETE PART 1 BY CHECKING ONE OF THE BOXES
FAILURE TO CHECK ONE OF THE BOXES WILL RENDER THE PROPOSAL NON-RESPONSIVE

Pursuant to Public Law 2012, c. 25, any person or entity that submits a bid or proposal or otherwise proposes to enter into or renew a contract must complete the certification below to attest, under penalty of perjury, that neither the person nor entity, nor any of its parents, subsidiaries, or affiliates, is identified on the State of New Jersey, Department of the Treasury's Chapter 25 list as a person or entity engaged in investment activities in Iran. The Chapter 25 list is found on the Department's website at <http://www.state.nj.us/treasury/pdf/Chapter25List.pdf>. Vendors/Bidders **must** review this list prior to completing the below certification. **Failure to complete the certification will render a Vendor's/Bidder's proposal non-responsive.** If the Director of the Division of Purchase and Property finds a person or entity to be in violation of the law, s/he shall take action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party.

CHECK THE APPROPRIATE BOX

A. I certify, pursuant to Public Law 2012, c.25, that neither the Vendor/Bidder listed above nor any of its parents, subsidiaries, or affiliates is listed on the N.J. Department of Treasury's list of entities determined to be engaged in prohibited activities in Iran pursuant to P.L. 2012, c. 25 ("Chapter 25 List"). Disregard Part 2 and complete and sign the Certification below.

OR

B. I am unable to certify as above because the Vendor/Bidder and/or one or more of its parents, subsidiaries, or affiliates is listed on the Department's Chapter 25 list. I will provide a detailed, accurate and precise description of the activities in Part 2 below and sign and complete the Certification below. Failure to provide such information will result in the proposal being rendered as non-responsive and appropriate penalties, fines and/or sanctions will be assessed as provided by law.

PART 2

PLEASE PROVIDE ADDITIONAL INFORMATION RELATED TO INVESTMENT ACTIVITIES IN IRAN

If you checked Box "B" above, provide a detailed, accurate and precise description of the activities of the Vendor/Bidder, or one of its parents, subsidiaries or affiliates, engaged in investment activities in Iran by completing the information below.

ENTITY NAME: _____
RELATIONSHIP TO VENDOR/BIDDER: _____
DESCRIPTION OF ACTIVITIES: _____
DURATION OF ENGAGEMENT: _____
ANTICIPATED CESSATION DATE: _____
VENDOR/BIDDER CONTACT NAME: _____
VENDOR/BIDDER CONTACT PHONE#: _____

Attach Additional Sheets If Necessary

CERTIFICATION

I, the undersigned, certify that I am authorized to execute this certification on behalf of the Vendor/Bidder, that the foregoing information and any attachments hereto, to the best of my knowledge are true and complete. I acknowledge that the County of Union, New Jersey is relying on the information contained herein, and that the Vendor/Bidder is under a continuing obligation from the date of this certification through the completion of any contract(s) with the County of Union to notify the County of Union in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification. If I do so, I will be subject to criminal prosecution under the law, and it will constitute a material breach of my agreement(s) with the County of Union, permitting the County of Union to declare any contract(s) resulting from this certification void and unenforceable.

Signature _____

Date _____

Print Name and Title _____

Revised 10/19/17

STANDARD SPECIFICATION FORM - SS-1

STANDARD SPECIFICATIONS

The Standard Specifications for Road and Bridge Construction of New Jersey Department of Transportation, 2007 Edition; is added to and/or amended elsewhere herein by the Notice to Contractors (Advertisement), Proposal, Information for Bidders, General Conditions, Special Provisions, Project Plans, and Supplementary Specifications; shall, insofar as technical requirements are involved, govern in the execution of this project.

Such Standard Specifications are made a part of these Specifications by this reference and will not be repeated herein. It is the responsibility of prospective bidders to familiarize themselves with these Standard Specifications, copies of which may be examined at the office of the Engineer and may be obtained, upon payment of the cost thereof, from:

Department of Transportation
State of New Jersey
1035 Parkway Avenue
Trenton, New Jersey 08625

The Notice to Bidders (Advertisement), Proposal, General Conditions, Instructions to Bidders, Special Provisions, Project Plans and/or Technical Specifications shall govern and prevail in the case of conflict between them and the Standard Specifications.

In these Standard Specifications the words "COMMISSIONER" or "DEPARTMENT" shall refer to and mean the person, persons, body, board or agent legally empowered to enter into contracts and otherwise legally act for the Owner. The words "RESIDENT ENGINEER (RE)", "ENGINEER" or "STATE" shall refer to and mean the professional engineering representative of the Owner as hereinbefore defined and the word "INSPECTOR" shall mean the authorized project representative of the Engineer with the authority as hereinbefore defined. The word "LABORATORY" shall mean and refer to the Engineer who may, at his discretion, and with the consent of the Owner, employ qualified technical personnel or testing laboratories to assist him in fulfilling the duties normally assigned to the "LABORATORY" in these Standard Specifications.

When reference is made herein to the bulletins, standards, specifications, publications or requirements of the Manual on Uniform Traffic Control Devices (MUTCD), Institute of Traffic Engineers (ITE), Federal Highway Administration (FHWA), American Association of State Highway Officials (AASHTO), the American Concrete Institute (ACI), the American Society of Civil Engineers (ASCE) or similar national or regional societies, associations, institutes or organizations; the requirements of the bulletins, specifications, publications or requirements referred to shall be considered a part of these Specifications by such reference and shall not be repeated herein but shall have the same import and be as binding as if herein set forth in full.

NEW JERSEY PREVAILING WAGE RATES

It is recommended the bidder download the wage rates immediately prior to the scheduled bid due date to insure the latest rates are included in their bid.

https://www.nj.gov/labor/wagehour/wagerate/prevailing_wage_determinations.html



STATE OF NEW JERSEY
Department of Labor and Workforce Development
Division of Wage and Hour Compliance - Public Contracts Section
PO Box 389
Trenton, NJ 08625-0389

PREVAILING WAGE RATE DETERMINATION

The New Jersey Prevailing Wage Act (N.J.S.A. 34:11-56.25 et seq.) requires that the Department of Labor and Workforce Development establish and enforce a prevailing wage level for workers engaged in public works in order to safeguard their efficiency and general well being and to protect them as well as their employers from the effects of serious and unfair competition.

Prevailing wage rates are wage and fringe benefit rates based on the collective bargaining agreements established for a particular craft or trade in the locality in which the public work is performed. In New Jersey, these rates vary by county and by the type of work performed.

Applicable prevailing wage rates are those wages and fringe benefits in effect on the date the contract is awarded. All pre-determined rate increases listed at the time the contract is awarded must also be paid, beginning on the dates specified. Rates that have expired will remain in effect until new rates are posted.

Prevailing Wage Rate

The prevailing wage rate for each craft will list the effective date of the rate and the following information:

W = Wage Rate per Hour **B** = Fringe Benefit Rate per Hour* **T** = Total Rate per Hour

* Fringe benefits are an integral part of the prevailing wage rate. Employers not providing such benefits must pay the fringe benefit amount directly to the employee each payday. Employers providing benefits worth less than the fringe benefit amount must pay the balance directly to the employee each payday.

Unless otherwise stated in the Prevailing Wage Rate Determination, the fringe benefit rate for overtime hours remains at the straight time rate.

When the Overtime Notes in the Prevailing Wage Rate Determination state that the overtime rates are "inclusive of benefits," the benefit rate is increased by the same factor as the wage rate (i.e. multiplied by 1.5 for time and one-half, multiplied by 2 for double time, etc.).

Apprentice Rate Schedule

An "apprentice" is an individual who is registered with the United States Department of Labor - Office of Apprenticeship and enrolled in a certified apprenticeship program during the period in which they are working on the public works project.

The apprentice wage rate is a percentage of the journeyman wage rate, unless otherwise indicated. The apprentice benefit rate is the full journeyman benefit rate, unless otherwise indicated.

If there is no apprentice rate schedule listed, the individual must be paid at least the journeyman rate even if that individual is in a certified apprentice program for that trade.

If there is no ratio of apprentices to journeymen listed for a particular craft, then the ratio shall be one (1) apprentice to every four (4) journeymen.

Comments/Notes

For each craft listed there will be comments/notes that cover the definition of the regular workday, shift differentials, overtime, recognized holidays, and any other relevant information.

Public Works Contractor Registration

The Public Works Contractor Registration Act (N.J.S.A. 34:11-56.48, et seq.) requires that **all** contractors, subcontractors, or lower tier subcontractors who are working on or who bid on public works projects register with the Department of Labor and Workforce Development. Applications are available at www.nj.gov/labor (click on Wage & Hour and then go to Registration & Permits).

Pursuant to N.J.S.A. 34:11-56.51:

No contractor shall bid on any contract for public work as defined in section 2 of P.L.1963, c. 150 (C.34:11-56.26) unless the contractor is registered pursuant to this act. No contractor shall list a subcontractor in a bid proposal for the contract unless the subcontractor is registered pursuant to P.L.1999, c.238 (C.34:11-56.48 et seq.) at the time the bid is made. No contractor or subcontractor, including a subcontractor not listed in the bid proposal, shall engage in the performance of any public work subject to the contract, unless the contractor or subcontractor is registered pursuant to that act.

Snow Plowing

Snow plowing contracts are not subject to the New Jersey Prevailing Wage Act or the Public Works Contractor Registration Act.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Air Conditioning & Refrigeration - Service and Repair

PREVAILING WAGE RATE

	03/01/18
Journeyman (Mechanic)	W37.98 B23.93 T61.91

Craft: Air Conditioning & Refrigeration - Service and Repair

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	Mo. 1-3	Mo. 4-12	2nd Year	3rd Year	4th Year	5th Year		Wage = %	of Jnymn	Wage
As Shown										
Wage and Bene	50%	55%	60%	65%	75%	85%		Bene = %	of Jnymn	Bene

Ratio of Apprentices to Journeymen - 1:4

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM AFTER 3-1-13:

INTERVAL	PERIOD AND RATES							
As Shown	1st Year	2nd Year	3rd Year	4th Year	5th Year		Wage =% of Jnymn Wage	
Wage and Benefit	40%	50%	60%	70%	80%		Bene. =% of Jnymn Bene	

Craft: Air Conditioning & Refrigeration - Service and Repair

COMMENTS/NOTES

THESE RATES MAY BE USED FOR THE FOLLOWING:

- Service/Repair/Maintenance Work to EXISTING facilities.
- Replacement or Installation of air conditioning and refrigeration equipment when the combined tonnage does not exceed 15 tons for refrigeration, or 25 tons for air conditioning.
- Replacement or Installation of "packaged" or "unitary" rooftop-type units when the combined tonnage of the units does not exceed 75 tons.

NOTE: These rates may NOT be used for any work in new construction (including work on new additions).

The regular workday shall consist of 8 hours, starting between 6:00 AM and 10:00 AM, Monday through Friday.

SHIFT DIFFERENTIALS:

- The second and third shifts shall be paid an additional 15% of the hourly rate.
- All shifts must run for a minimum of 5 consecutive days.

OVERTIME:

Hours worked in excess of 8 per day or before or after the regular workday, that are not shift work, and all hours on Saturday shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sunday and holidays shall be paid at double the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Boilermaker PREVAILING WAGE RATE

	01/01/19
Foreman	W49.72 B44.34 T94.06
General Foreman	W51.72 B45.34 T97.06
Journeyman	W44.72 B42.70 T87.42

Craft: Boilermaker APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours	65%	70%	75%	80%	85%	90%	95%			
Benefit =	36.36	37.26	38.18	39.07	39.39	40.89	41.79			

Ratio of Apprentices to Journeymen - *

* 1 apprentice will be allowed for the first 5 journeymen, 1 apprentice for the next 10 journeymen and 1 apprentice for each succeeding 20 journeymen up to a maximum of 5 apprentices per contractor on any one job.

Craft: Boilermaker COMMENTS/NOTES

HIGH WORK: All apprentices working on the erection, repair, or dismantling of smoke stacks, standpipes, or water towers shall be paid the Journeyman rate.

The regular workday shall consist of 8 hours, between 8:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall work 7½ hours and receive 8 hours pay, at a rate equal to the regular hourly rate plus 10%.
- The third shift shall work 7 hours and receive 8 hours pay, at a rate equal to the regular hourly rate plus 20%.
- For "Municipal Water Works" projects only, the following shall apply: Two, four day, 10 hour shifts may be worked at straight time Monday through Thursday. The day shift shall work four days, at 10 hours, for 10 hours pay. The second shift shall work four days, at nine and a half hours, for 10 hours pay, plus 10% the hourly rate for new work and .25 cents on repair work. Friday may be used as a make-up day at straight time, due to weather conditions, holiday or any other circumstances beyond the employer's control.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays (except Labor Day) shall be paid at double the hourly rate. All hours on Labor Day shall be paid at four times the hourly rate.
- If any other craft employed by the same contractor, or a subcontractor thereof, receives double time in lieu of time and one-half, then the Boilermaker shall receive double time in lieu of time and one-half.
- For "Municipal Water Works" projects only, the following shall apply: Four 10 hour days may be worked Monday through Thursday at straight time. Friday may be used as a make-up day for a day lost to inclement weather, holiday or other conditions beyond the control of the employer. Overtime shall be paid for any hours that exceed 10 hours per day or 40 hours per week.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Boilermaker - Minor Repairs

PREVAILING WAGE RATE

	01/01/19
Foreman	W32.80 B16.37 T49.17
General Foreman	W33.30 B16.37 T49.67
Mechanic	W31.30 B16.37 T47.67

Craft: Boilermaker - Minor Repairs

COMMENTS/NOTES

NOTE: These rates apply to MINOR REPAIR WORK ONLY (repair work in the field for which the contract amount does not exceed \$125,000.00).

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays (except Labor Day) shall be paid at double the hourly rate. All hours on Labor Day shall be paid at four times the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Good Friday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Thanksgiving Day, day after Thanksgiving, Christmas Day. Saturday holidays observed the preceding Friday, Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Bricklayer, Stone Mason

PREVAILING WAGE RATE

	05/01/18
Deputy Foreman	W45.20 B33.03 T78.23
Foreman	W48.20 B33.03 T81.23
Journeyman	W42.20 B33.03 T75.23

Craft: Bricklayer, Stone Mason

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	40%	50%	55%	60%	65%	70%	75%	80%		
6 Months										
Benefits	3.86	4.83	5.31	5.80	21.83	23.27	24.72	26.15		

Ratio of Apprentices to Journeymen - 1:5

Craft: Bricklayer, Stone Mason

COMMENTS/NOTES

The regular workday shall consist of 8 hours, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the first, or day shift, shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 10%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 10%, inclusive of benefits, and the third shift shall receive the regular rate plus 15%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 10%, inclusive of benefits, and the third shift shall receive the regular rate plus 15%, inclusive of benefits.
- When an irregular shift must be established, this shift shall receive the regular rate plus 10%, inclusive of benefits.

OVERTIME:

- The first 2 hours in excess of 8 per day, or before or after the regular workday that are not shift work, Monday through Friday, shall be paid at time and one-half the regular rate, inclusive of benefits. Any additional overtime shall be paid at double the regular rate, inclusive of benefits. The first 10 hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. Any additional overtime shall be paid at double the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Saturday may be used as a make-up day for hours lost to inclement weather.
- When Bricklayers/Stone Masons work on Saturday with Laborers, and no other crafts are working on the project for the day, benefits may be paid at straight time. If other crafts are present, the applicable overtime rate for benefits shall be paid.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Carpenter

PREVAILING WAGE RATE

	11/01/18
Foreman	W56.94 B32.45 T89.39
Journeyman	W49.51 B28.22 T77.73

Craft: Carpenter

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	40%	55%	65%	80%	90%					
Benefit	57% of	Appren	tice	Wage Rate	for all	intervals				

Ratio of Apprentices to Journeymen - 1:3

Craft: Carpenter

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- When there are 2 or more Carpenters on a job, 1 shall be designated as a Foreman.
- When there are 21 or more Carpenters on a job, 2 shall be designated as Foremen.

The regular workday shall consist of 8 hours, starting between 7:00 AM and 9:00 AM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 15%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.

OVERTIME:

- All hours in excess of 8 per day, or before or after an established shift that are not shift work, and all hours on Saturdays shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Carpenter - Resilient Flooring

PREVAILING WAGE RATE

	11/01/18
Foreman	W56.94 B32.45 T89.39
Journeyman	W49.51 B28.22 T77.73

Craft: Carpenter - Resilient Flooring

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	40%	55%	65%	80%	90%					
Benefit	57%	of	Appren	tice	Wage	for all	intervals			
					Rate					

Ratio of Apprentices to Journeymen - *

* 1 apprentice shall be allowed to every 2 journeymen or major fraction thereof. No more than 3 apprentices on any one job or project.

Craft: Carpenter - Resilient Flooring

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- On any job where there are 4 or more Carpenters of Resilient Flooring, 1 must be designated a Foreman.

FOR SYNTHETIC TURF INSTALLATION ONLY:

- The rate shall be 90% of the wage and benefit rate.

The regular workday consists of 8 hours, starting between 6:00 AM and 9:00 AM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the day shift, shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular wage rate plus 15%.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular wage rate, the second shift shall receive the regular wage rate plus 15% and the third shift shall receive the regular wage rate plus 20%.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular wage rate plus 15% and the third shift shall receive the regular wage rate plus 20%.

OVERTIME:

- Hours in excess of 8 per day or 40 per week, or before or after the regular workday, Monday through Friday, shall be paid at time and one-half the wage rate. Saturday may be used as a make-up day, at straight time, up to 8 hours, for hours lost to reasons beyond the control of the employer, up to a total of 40 hours per week; hours in excess of 8 on Saturday shall then be paid at time and one-half the wage rate. If Saturday is not a make-up day, all hours on Saturday shall be paid at time and one-half the wage rate. All hours on Sundays and holidays shall be paid at double the wage rate.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for hours lost to reasons beyond the control of the employer. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the wage rate.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Cement Mason

PREVAILING WAGE RATE

See "Bricklayer, Stone Mason" Rates

Craft: Cement Mason

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									

Ratio of Apprentices to Journeymen - 1:4

Craft: Cement Mason

COMMENTS/NOTES

See "Bricklayer, Stone Mason" Rates

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

County - UNION

Craft: Diver **PREVAILING WAGE RATE**

	11/02/18
Diver	W58.74 B46.87 T105.61
Tender	W47.00 B46.87 T93.87

Craft: Diver **COMMENTS/NOTES**

NOTE: All dive crews must consist of a Tender, a Diver, and a standby Diver (standby Diver is the same rate as a Diver).

DEPTH & PENETRATION RATES: Divers shall be paid the following depth and penetration rates, in addition to the regular hourly rate, when applicable:

AIR DIVES:

- 0-59 feet: No additional wage
- 60-74 feet: + \$0.25 per foot
- 75-125 feet: + \$0.78 per foot

MIXED GAS DIVES:

- 0-74 feet: No additional wage
- 75-125 feet: + \$1.00 per foot
- 126-200 feet: + \$2.00 per foot

PENETRATION DIVES:

- 126-200 feet: + \$1.50 per foot
- 201-275 feet: + \$1.75 per foot
- 276-350 feet: + \$2.00 per foot
- 351-425 feet: + \$2.50 per foot

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day, Christmas Day. Veterans' Day may be switched with the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Dockbuilder PREVAILING WAGE RATE

	11/02/18
Foreman	W54.05 B46.87 T100.92
Foreman (Concrete Form Work)	W53.25 B33.76 T87.01
Journeyman	W47.00 B46.87 T93.87
Journeyman (Concrete Form Work)	W46.30 B33.76 T80.06

Craft: Dockbuilder APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
Yearly	18.80	23.50	30.55	37.60						
Benefit	31.25	for all	intervals							

Ratio of Apprentices to Journeymen - *

* When there are 4 or fewer Dockbuilders on a job, no more than 1 may be an apprentice. When there are 5 or more Dockbuilders, there may be 1 apprentice for every 5 Dockbuilders.

Craft: Dockbuilder COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR CONCRETE FORM WORK ONLY:

INTERVAL	PERIOD AND RATES			
Yearly	18.52	23.15	30.10	37.04
Benefits	23.24	for all	intervals	

CREOSOTE HANDLING:

When handling creosote products on land piledriving, floating marine construction, and construction of wharves, the worker shall receive an additional \$0.25 per hour.

HAZARDOUS WASTE WORK:

- Hazardous waste removal work on a state or federally designated hazardous waste site where Level A, B, or C personal protection is required: an additional 20% of the hourly rate, per hour.
- Hazardous waste removal work in Level D, or where personal protection is not required: an additional \$1.00 per hour.

CERTIFIED WELDER: When required on the job by the project owner, a Certified Welder shall receive an additional \$1.00 per hour.

FOREMAN REQUIREMENTS:

The first Dockbuilder on the job shall be designated a Foreman.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day, Christmas Day. Veterans' Day may be switched with the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Drywall Finisher

PREVAILING WAGE RATE

	11/01/18
Foreman	W43.95 B24.40 T68.35
General Foreman	W45.94 B24.40 T70.34
Journeyman	W39.95 B24.40 T64.35

Craft: Drywall Finisher

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	40%	50%		60%	70%		80%	90%		
6 Months										
Benefits	Intervals	1 to 2 =	10.65	Intervals	3 to 4 =	13.17	Intervals	5 to 6 =	16.25	

Ratio of Apprentices to Journeymen - 1:4

Craft: Drywall Finisher

COMMENTS/NOTES

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, and the third shift shall receive 8 hours pay for 7 hours of work.
- Shift work must run for a minimum of 5 consecutive workdays.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Electrician

PREVAILING WAGE RATE

	06/07/18
Cable Splicer	W61.52 B35.38 T96.90
Foreman	W62.64 B36.03 T98.67
Journeyman	W55.93 B32.17 T88.10

Craft: Electrician

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	40%	49%	58%	68%	80%		of Jour	neyman	Wage	Rate
Benefit	40%	49%	58%	68%	80%		of Jour	neyman	Benefit	Rate

Ratio of Apprentices to Journeymen - 2:3

Craft: Electrician

COMMENTS/NOTES

THESE RATES ALSO APPLY TO THE FOLLOWING:

- All burglar and fire alarm work.
- All fiber optic work.
- Teledata work in new construction.
- Teledata work involving 16 Voice/Data Lines or more.

The regular workday shall be 8 hours, between 8:00 AM and 4:30 PM.

FOREMAN REQUIREMENTS:

- On any job where there are 1 to 10 Journeymen electricians, 1 shall be designated a Foreman.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- 2nd Shift (4:30 PM to 12:30 AM) shall receive 8 hours pay for 7.5 hours work + an additional 10% of the regular rate, per hour, inclusive of benefits.
- 3rd Shift (12:30 AM to 8:00 AM) shall receive 8 hours pay for 7 hours work + an additional 15% of the regular rate, per hour, inclusive of benefits.

OVERTIME:

Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, and all hours on Saturdays, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Electrician - Teledata (15 Voice/Data Lines & Less)

PREVAILING WAGE RATE

	10/29/18	10/28/19	11/02/20
Master	W54.86	W56.16	W57.42
Technician/General	B30.17	B30.89	B31.58
Foreman	T85.03	T87.05	T89.00
Senior Technician/Lead Foreman (21-30 Workers on Job)	W50.22 B27.62 T77.84	W51.41 B28.27 T79.68	W52.56 B28.91 T81.47
Technician A/Foreman (11-20 Workers on Job)	W48.11 B26.46 T74.57	W49.25 B27.08 T76.33	W50.35 B27.69 T78.04
Technician B/Working Foreman (4-10 Workers on Job)	W46.00 B25.30 T71.30	W47.09 B25.90 T72.99	W48.15 B26.47 T74.62
Technician C/Journeyman (1-3 Workers on Job)	W42.20 B23.21 T65.41	W43.20 B23.76 T66.96	W44.17 B24.29 T68.46

Craft: Electrician - Teledata (15 Voice/Data Lines & Less)

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>										
6 Months						66%	72%	79%	86%		
Benefits						11.81	12.89	14.14	15.40		

Ratio of Apprentices to Journeymen - 2:3

Craft: Electrician - Teledata (15 Voice/Data Lines & Less)

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM AFTER 10-31-14:

INTERVAL	PERIOD AND RATES										
6 Months	35%	35%	40%	43%	48%	54%	61%	67%	74%	81%	
Benefits	6.76	6.76	7.16	7.70	8.59	9.66	10.82	11.99	13.25	14.51	

NOTES:

- These rates are for service, maintenance, moves, and/or changes affecting 15 Voice/Data (teledata) lines or less. These rates may NOT be used for any teledata work in new construction (including additions) or any fiber optic work.
- The number of Teledata workers on the jobsite is the determining factor for which Foreman category applies .

The regular workday shall be 8 hours, between 8:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

- 2nd Shift (4:30 PM to 12:30 AM) shall receive 8 hours pay for 7.5 hours work + an additional 10% of the regular rate, per hour, inclusive of benefits.
- 3rd Shift (12:30 AM to 8:00 AM) shall receive 8 hours pay for 7 hours work + an additional 15% of the regular rate, per hour, inclusive of benefits.

OVERTIME:

Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, and all hours on Saturdays, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Electrician - Teledata (16 Instruments & More)

PREVAILING WAGE RATE

See "Electrician" Rates

Craft: Electrician - Teledata (16 Instruments & More)

COMMENTS/NOTES

See ELECTRICIAN Rates

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Electrician- Outside Commercial

PREVAILING WAGE RATE

	06/07/18
Cable Splicer	W61.82 B35.09 T96.91
Certified Welder	W59.01 B33.50 T92.51
Equipment Operator	W56.20 B31.90 T88.10
Foreman (1-10 Journeyman workers on job)	W62.94 B35.73 T98.67
Foreman (11-20 Journeyman workers on job)	W64.62 B36.68 T101.30
General Foreman (21-30 Journeyman workers on job)	W66.32 B37.65 T103.97
General Foreman (31-60 Journeyman workers on job)	W71.94 B40.84 T112.78
General Foreman (61+ Journeyman workers on job)	W73.06 B41.47 T114.53
Groundman	W33.72 B19.15 T52.87
Journeyman Lineman/Technician	W56.20 B31.90 T88.10
Sub-Foreman	W62.94 B35.73 T98.67

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Electrician- Outside Commercial

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours	60%	65%	70%	75%	80%	85%	90%			
Benefits	56.75% of	Journey	man	wage	+	\$.01				

Craft: Electrician- Outside Commercial

COMMENTS/NOTES

EFFECTIVE 5-30-16- The apprentice benefit rate shall be 56.7% + \$.01.
 EFFECTIVE 5-29-17- The apprentice benefit rate shall be 56.7% + \$.01.
 EFFECTIVE 5-28-18- The apprentice benefit rate shall be 56.7% + \$.01.

* FOR UTILITY WORK PLEASE SEE STATEWIDE RATES

The regular worday shall be 8 hours, between 8:00 AM and 4:30 PM.

FOREMAN REQUIREMENTS:

On jobs where there are 2 Journeymen, one shall be a Foreman. The following number of Foreman, General Foreman, Assistant General Foreman and Sub-Foreman shall be required with respect to number of Journeymen on site:

- 2-10 Journeymen (1 Foreman)
- 11-20 Journeymen (1 Foreman and 1 Sub-Foreman)
- 21-30 Journeymen (1 Foreman and 2 Sub-Foremen)

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- 2nd Shift (4:30 PM to 12:30 AM): 8 hrs. pay for 7.5 hrs. work + an additional 10% of the regular rate, inclusive of benefits.
- 3rd Shift (12:30 AM to 8:00 AM): 8 hrs. pay for 7 hrs. work + an additional 15% of the regular rate per hour, inclusive benefits.

OVERTIME:

Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, and all hours on Saturdays, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS:

New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day and Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Electrician-Utility Work (North)

PREVAILING WAGE RATE

Rates are located in the "Statewide" rate package

Craft: Electrician-Utility Work (North)

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
* 6 Months	60%	65%	70%	75%	80%	85%	90%			
Benefits	67% of	Appren	tice	Wage	Rate	for all	intervals			

Craft: Electrician-Utility Work (North)

COMMENTS/NOTES

Electrician-Utility Work (North) rates are located in the "Statewide" rate package.

* The apprentice wage rate is paid at the percentage of the Journeyman Lineman wage rate located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Electrician-Utility Work (South)

PREVAILING WAGE RATE

Rates are located in the "Statewide" rate package

Craft: Electrician-Utility Work (South)

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	28.53	30.91	33.29	35.66	38.04	40.42	42.80			
Benefits	25.01	26.41	27.83	29.24	30.65	32.05	33.47			

Craft: Electrician-Utility Work (South)

COMMENTS/NOTES

Electrician-Utility Work (South) rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Elevator Constructor

PREVAILING WAGE RATE

	03/17/18
Journeyman	W64.48 B43.36 T107.84

Craft: Elevator Constructor

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	28.74	35.46	41.91	48.36						
Benefits	34.88	36.07	37.69	39.30						

Ratio of Apprentices to Journeymen - 1:1

Craft: Elevator Constructor

COMMENTS/NOTES

The regular workday shall consist of either 7 or 8 hours to be established at the beginning of the project, between 7:00 AM and 4:30 PM.

OVERTIME:

For all hours worked before or after the regular workday, Monday through Friday, and all hours on Saturday and Sunday, shall be paid at double the hourly rate. Holiday pay is one days wages (8 hours) plus double the hourly rate for all hours worked.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Saturday holidays shall be observed on the previous Friday and Sunday holidays shall be observed on the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Elevator Modernization & Service

PREVAILING WAGE RATE

	03/17/18
Journeyman	W50.49 B41.66 T92.15

Craft: Elevator Modernization & Service

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	28.74	27.77	32.82	37.87						
Benefits	34.81	35.13	36.58	38.03						

Ratio of Apprentices to Journeymen - 1:1

Craft: Elevator Modernization & Service

COMMENTS/NOTES

MODERNIZATION (addition, replacement, refurbishing, relocation, or changes in design or appearance, of elevator equipment in existing buildings):

- The regular workday consists of 8 hours, between 7:00 AM and 4:30 PM.

- Overtime:

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturday and Sunday shall be paid at time and one-half the hourly rate. Holiday pay is one days wages (8 hours) plus time and one-half the hourly rate for all hours worked.

SERVICE (repair or replacement of parts for the purpose of maintaining elevator equipment in good operating condition):

- The regular workday consists of 8 hours, between 6:00 AM and 6:00 PM.

- Overtime:

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturday shall be paid at time and one-half the hourly rate. All hours on Sunday and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS (Modernization and Service): New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Saturday holidays shall be observed on the previous Friday and Sunday holidays shall be observed on the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Glazier PREVAILING WAGE RATE

	05/15/18	05/01/19
* Leadman	W47.11 B25.06 T72.17	W49.11 B25.06 T74.17
Foreman	W48.94 B25.23 T74.17	W52.81 B23.62 T76.43
General Foreman	W50.77 B25.40 T76.17	W54.81 B23.75 T78.56
Journeyman	W45.28 B24.89 T70.17	W48.81 B23.36 T72.17

Craft: Glazier APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months	50%	55%		60%	65%		70%	75%		
Benefits	Intervals	1 to 2 =	9.11	Intervals	3 to 4 =	11.71	Intervals	5 to 6 =	13.20	

Ratio of Apprentices to Journeymen - 1:4

Craft: Glazier COMMENTS/NOTES

Hazard/Height Pay: +\$1.00 per hour

* When there are three (3) men working on a jobsite for three (3) days or longer, 1 Journeyman may be designated as a Leadman for the duration of the job, provided he has his OSHA certification.

FOREMAN REQUIREMENTS:

- When there are 4 or more Glaziers on a job, 1 must be designated a Foreman.
- When there are 15 or more Glaziers on a job, 1 must be designated a General Foreman.

The regular workday shall consist of 8 hours, between 7:00 AM and 5:30 PM, Monday to Friday.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, and the third shift shall receive 8 hours pay for 7 hours of work.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Heat & Frost Insulator

PREVAILING WAGE RATE

	09/19/18
Foreman	W55.77 B31.92 T87.69
General Foreman	W58.11 B33.03 T91.14
Journeyman	W53.99 B31.36 T85.35

Craft: Heat & Frost Insulator

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	25.15	29.84	36.00	42.16						
Benefits	18.71	22.13	24.41	26.56						

Ratio of Apprentices to Journeymen - 1:3

Craft: Heat & Frost Insulator

COMMENTS/NOTES

NOTE: These rates apply to the installing of insulation on hot and cold mechanical systems.

The regular workday shall be 8 hours between 8:00 AM and 4:30 PM.

SHIFT DIFFERENTIAL:

- Shift work must run for a minimum of 5 consecutive workdays.
- Second Shift shall work 7.5 hours and receive 8 hours pay, at the regular rate, plus 25% per hour.
- Third Shift shall work 7 hours and receive 8 hours pay, at the regular rate, plus 30% per hour.

OVERTIME:

The first 2 hours in excess of 8 per day, hours outside of the regular workday Monday through Friday that are not shift work, and the first 10 hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours in excess of 10 per day, and all hours on Sunday and holidays (except Labor Day) shall be paid at double the regular rate, inclusive of benefits. All hours on Labor Day shall be paid at triple the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day and Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Heat & Frost Insulator - Asbestos Worker

PREVAILING WAGE RATE

	09/19/18
Asbestos Helper Abatement	W36.00 B24.41 T60.41
Firestop/Hazmat	W25.68 B9.25 T34.93

Craft: Heat & Frost Insulator - Asbestos Worker

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	HEAT &	FROST	INSULAT OR						

Ratio of Apprentices to Journeymen - 1:3

Craft: Heat & Frost Insulator - Asbestos Worker

COMMENTS/NOTES

NOTE: These rates apply only to the removal of insulation materials/asbestos from mechanical systems, including containment erection and demolition, and placing material in appropriate containers.

The regular workday shall be 8 hours between 8:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- The second shift shall work 7.5 hours and receive 8 hours pay at the regular rate, plus 25% per hour.
- The third shift shall work 7 hours and receive 8 hours pay at the regular rate, plus 30% per hour.

OVERTIME: The first 2 hours in excess of 8 per day, hours outside of the regular workday Monday through Friday that are not shift work, and the first 10 hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours in excess of 10 per day, and all hours on Sunday and holidays (except Labor Day) shall be paid at double the regular rate, inclusive of benefits. All hours on Labor Day shall be paid at triple the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day and Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Ironworker PREVAILING WAGE RATE

	07/10/18	07/01/19	07/01/20
Rod /Fence Foreman	W44.39 B46.12 T90.51	W0.00 B0.00 T92.51	W0.00 B0.00 T94.26
Rod/Fence Journeyman	W41.39 B46.12 T87.51	W0.00 B0.00 T89.51	W0.00 B0.00 T91.26
Structural Foreman	W46.44 B46.12 T92.56	W0.00 B0.00 T94.56	W0.00 B0.00 T96.56
Structural Journeyman	W43.44 B46.12 T89.56	W0.00 B0.00 T91.56	W0.00 B0.00 T93.56

Craft: Ironworker APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months	50%	60%		Yearly	70%	80%	90%			

Ratio of Apprentices to Journeymen - 1:4

Craft: Ironworker COMMENTS/NOTES

HAZARDOUS WASTE WORK: On hazardous waste removal work on a state or federally designated hazardous waste site where the Ironworker is required to wear Level A,B, or C personal protection: + \$3.00 per hour

The regular workday consists of 8 hours between 6:00 AM and 4:30 PM.

FOREMAN REQUIREMENTS:

When there are 2 or more Ironworkers on a job, 1 shall be designated a Foreman.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule is established, the first, or day shift , shall be established on an 8 hour basis .The second shift shall be established on an 8 hour basis, and receive the regular rate plus 15%.

- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 15%, and the third shift shall receive the regular rate plus 20%.

- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis.

- When an irregular shift is established for the Ironworker (Structural) classification, the rate shall be paid at time and one-half the regular rate, inclusive of benefits. When an irregular shift is established for the Rod/Fence classification, the shift shall be established on an 8 hour basis and receive the regular rate, plus 20%.

OVERTIME:

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

- All hours in excess of 8 per day, or before or after an established shift that are not shift work, and all hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sunday and holidays shall be paid at double the hourly rate, inclusive of benefits. Saturday may be used as a make-up day for a day lost to inclement weather. If Saturday is not a make-up day, all hours on Saturday shall be paid at time and one-half the hourly rate, inclusive of benefits.

- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Laborer - Asbestos & Hazardous Waste Removal

PREVAILING WAGE RATE

	08/01/18
Journeyman (Handler)	W31.48 B22.31 T53.79

Craft: Laborer - Asbestos & Hazardous Waste Removal

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	18.89	22.04	25.18	28.33						
Benefits	20.66	for	all	intervals						

Ratio of Apprentices to Journeymen - *

* Ratio of apprentices to journeymen shall not be more than one apprentice for the first journeyman and no more than (1) apprentice for each additional three (3) journeymen.

Craft: Laborer - Asbestos & Hazardous Waste Removal

COMMENTS/NOTES

NOTE: These rates apply to work in connection with Asbestos, Radiation, Hazardous Waste, Lead, Chemical, Biological, Mold Remediation and Abatement.

The regular workday shall be 8 hours.

OVERTIME:

- Hours in excess of 8 per day, Monday through Saturday, and all hours on Sunday and holidays shall be paid at time and one-half the regular rate.
- Benefits on ALL overtime hours shall be paid at straight time.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Good Friday, Easter, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. (Holidays start at 12:00 am).

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Laborer - Building

PREVAILING WAGE RATE

	05/15/18
Class A Journeyman	W33.45 B29.12 T62.57
Class B Journeyman	W32.95 B29.12 T62.07
Class C Journeyman	W28.01 B29.12 T57.13
Foreman	W37.63 B29.12 T66.75
General Foreman	W41.81 B29.12 T70.93

Craft: Laborer - Building

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
	60%	70%	80%	90%						
6 Months										
Benefit	25.87	25.87	25.87	25.87						

Ratio of Apprentices to Journeymen - *

* Ratio of apprentices to journeymen shall not be more than one apprentice for the first journeyman and no more than (1) apprentice for each additional three (3) journeymen.

Craft: Laborer - Building

COMMENTS/NOTES

CLASS A: Specialist laborer including mason tender or concrete pour crew; scaffold builder (scaffolds up to 14 feet in height); operator of forklifts, Bobcats (or equivalent machinery), jack hammers, tampers, motorized tampers and compactors, vibrators, street cleaning machines, hydro demolition equipment, riding motor buggies, conveyors, burners; and nozzle men on gunite work.

CLASS B: Basic laborer - includes all laborer work not listed in Class A or Class C.

CLASS C: Janitorial-type light clean-up work associated with the TURNOVER of a project, or part of a project, to the owner. All other clean-up work is Class B.

The regular workday shall be 8 hours between 6:00 AM and 6:00 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- When a 2-shift schedule is worked, including a day shift, both shifts shall be established on the basis of 8 hours pay for 8 hours worked. The second shift shall receive the regular rate plus an additional 10%.
- When a 3-shift schedule is worked, the day shift shall be established on the basis of 8 hours pay for 8 hours worked, the second shift shall be established on the basis of 8 hours pay for 7.5 hours worked, and the third shift shall be established

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

on the basis of 8 hours pay for 7 hours worked. The day shift shall receive the regular rate, the second shift shall receive the regular rate plus an additional 10%, and the third shift shall receive the regular rate plus an additional 15%.

- When a second or third shift is worked with no day shift, the second or third shift shall be established on the basis of 8 hours pay for 8 hours worked. The second shift shall receive the regular rate plus an additional 10%, and the third shift shall receive the regular rate plus an additional 15%.

OVERTIME:

- Hours in excess of 8 per day, or outside the regular workday that are not shift work, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. Saturday may be used as a make-up day (paid at straight time) for a day lost to inclement weather, or for a holiday that is observed during the work week, Monday through Friday. All hours on Sundays and holidays shall be paid at double the regular rate.

- Four 10-hour days may be worked Monday to Thursday, at straight time, with Friday used a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the regular rate.

- Benefits on ALL overtime hours shall be paid at time and one-half.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Laborer - Heavy & General

PREVAILING WAGE RATE

Rates are located in the
"Statewide" rate package

Craft: Laborer - Heavy & General

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours	60%	70%	80%	90%						
Benefit	20.28	for	all	intervals						

Ratio of Apprentices to Journeymen - *

* No more than 1 apprentice for the first journeyman and no more than 1 apprentice for each additional 3 journeymen.

Craft: Laborer - Heavy & General

COMMENTS/NOTES

As of 3-1-19, benefits shall be \$21.03.

As of 3-1-20, benefits shall be \$21.78.

Heavy & General Laborer rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Laborer-Residential and Modular Construction

PREVAILING WAGE RATE

	04/26/18
* Skilled Tradesman (only applies to Modular Construction)	W25.85 B5.45 T31.30
Foreman (person directing crew, regardless of his skill classification)	W29.85 B5.45 T35.30
Laborer	W21.85 B5.45 T27.30
Laborer (for single family and stand-alone duplex owned by single owner)	W16.35 B2.95 T19.30

Craft: Laborer-Residential and Modular Construction

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
	As shown	800 hours	600 hours	600 hours						
wage & benefits	70%	80%	90%							

Ratio of Apprentices to Journeymen-

One (1) apprentice shall be allowed for the first journeyman on site and no more than one (1) additional apprentice for each additional three (3) journeymen on site.

Craft: Laborer-Residential and Modular Construction

COMMENTS/NOTES

* SKILLED TRADESMAN- any worker doing work not typically done by a Building Laborer. Some examples are installing interior doors, sheet rock, hooking up appliances, installing light fixtures, installing railing systems, etc. Please note where local building codes require that certain work be performed under the supervision of a licensed tradesman (i.e. Plumber, Electrician, etc.) Laborers shall work under such supervision.

RESIDENTIAL CONSTRUCTION- All residential construction (not commercial), single-family, stand-alone duplex houses, townhouses and multi-family buildings of not more than four (4) floors. Each housing unit must be fully and independently functional; each housing unit must have its own kitchen and bathroom. The definition includes all incidental items such as site work, parking areas, utilities, streets and sidewalks. Please note the construction must be Residential in nature. A First Floor at or below grade may contain commercial space not to exceed 50% square footage of the floor; at least 50% of the First Floor must contain living accommodations or related nonresidential uses (e.g. laundry space, recreation/hobby rooms, and/or corridor space). Basement stories below grade used for storage, parking, mechanical systems/equipment, etc., are considered basement stories which are not used in determining the building's height. An attic is an unfinished space located immediately below the roof. Such space is not used in determining a building's height even if used for storage purposes. In addition, barracks and dormitories are not considered residential projects.

MODULAR RESIDENTIAL CONSTRUCTION- all aspects of modular residential construction (not commercial) at the site of installation of structures of no more than four (4) stories, including all excavation and site preparation, footings and

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

foundation systems whether poured on-site or prefabricated, all underground waterproofing, underground utilities, concrete slabs, sidewalks, driveways, paving, hardscape and landscaping. Please note the construction must be Residential as defined above. All work performed by the Set Crew (the crew of workers who set the modular boxes on the foundation), including the rigging, setting, attaching and assembly of all modules and structural members, preparation of the foundation to accept modules, such as sill plates, connection of all in-module and under-module connections including, but not limited to, plumbing, electrical, HVAC, fire suppression, CATS, telephone, television/internet, and fiber optic, the building or installation of any porches or decks regardless of material or method of construction, the on-site installation of, or completion of any roof system, doors, windows and fenestrations, including flashing, gutter and soffit systems, waterproofing, insulation and interior and exterior trim work, and painting. Please note that modular construction does not include on-site stick built construction, tip up construction or panel built construction.

The regular workday shall be 8 hours between 6:00 AM and 6:00 PM.

OVERTIME:

Hours worked in excess of 8 per day/40 per week, Monday through Saturday, and all hours worked on Sunday and holidays shall be paid at time and one-half the hourly rate.

RECOGNIZED HOILDAYS:

New Year's Day, Martin Luther King Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day and Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Millwright PREVAILING WAGE RATE

	11/01/18
Foreman	W57.03 B33.67 T90.70
Journeyman	W49.59 B29.36 T78.95

Craft: Millwright APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	40%	45%	50%	55%	60%	65%	70%	75%	85%	95%
Benefits	58% of	Appren	tice	Wage	Rate	for all	intervals	+ \$.60		

Ratio of Apprentices to Journeymen - 1:3

Craft: Millwright COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- When there are 2 or more Millwrights on a job, 1 shall be designated as a Foreman.
- When there are 21 or more Millwrights on a job, 2 shall be designated as Foremen.

The regular workday shall consist of 8 hours, starting between 7:00 AM and 9:00 AM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 15%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.

OVERTIME:

- All hours in excess of 8 per day, or before or after an established shift that are not shift work, and all hours on Saturdays shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Operating Engineer - Field Engineer

PREVAILING WAGE RATE

Rates are located in the
"Statewide" rate package

Craft: Operating Engineer - Field Engineer

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	70%	75%	of Rod/	Chainman	Wage					
Yearly			80%	90%	Transit/	Instrument	man	Wage		

Ratio of Apprentices to Journeymen - *

* No more than 1 Field Engineer Apprentice per Survey Crew.

Craft: Operating Engineer - Field Engineer

COMMENTS/NOTES

Operating Engineer - Field Engineer rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Painter - Bridges

PREVAILING WAGE RATE

	05/04/17
Foreman	W59.13 B27.67 T86.80
General Foreman	W61.13 B27.67 T88.80
Journeyman	W54.13 B27.67 T81.80

Craft: Painter - Bridges

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	40%	50%			60%	70%		80%	90%	
6 Months										
Benefits	Intervals	1 to 2 =	8.88	Intervals	3 to 4 =	10.81	Intervals	5 to 6 =	13.48	

Ratio of Apprentices to Journeymen - 1:4

Craft: Painter - Bridges

COMMENTS/NOTES

These rates apply to: All bridges that span waterways, roadways, railways and canyons. All tunnels, overpasses, viaducts and all appurtenances.

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Painter - Line Striping

PREVAILING WAGE RATE

	12/01/17
Apprentice (1st year)	W25.45 B11.00 T36.45
Apprentice (2nd year)	W29.45 B18.00 T47.45
Foreman (Charge Person)	W37.60 B18.17 T55.77
Journeyman 1 (at least 1 year of working exp. as a journeyman)	W33.33 B18.17 T51.50
Journeyman 2 (at least 2 years of working exp. as a journeyman)	W37.10 B18.17 T55.27

Craft: Painter - Line Striping

COMMENTS/NOTES

OVERTIME:

Hours in excess of 8 per day, Monday through Saturday, and all hours on Sundays and holidays shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans Day, Thanksgiving Day and Christmas Day. Veterans Day may be substituted for the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Painter - New Construction

PREVAILING WAGE RATE

	05/17/18	05/01/19	05/01/20
Foreman	W43.80 B24.35 T68.15	W45.45 B24.35 T69.80	W47.45 B24.35 T71.80
General Foreman	W47.78 B24.67 T72.45	W49.43 B24.67 T74.10	W51.43 B24.67 T76.10
Journeyman	W39.82 B24.04 T63.86	W41.47 B24.04 T65.51	W43.47 B24.04 T67.51

Craft: Painter - New Construction

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	40%	45%	55%	65%	70%	75%	80%	80%		
6 Months										
Benefits	8.05	8.05	10.05	10.05	11.05	11.05	14.05	14.05		

Ratio of Apprentices to Journeymen - 1:4

Craft: Painter - New Construction

COMMENTS/NOTES

Spraying, sandblasting, lead abatement, work on tanks or stacks, work performed above 3 stories or 30 feet in height, or using swing scaffolds requires an additional 10% of the wage rate.

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

County - UNION

Craft: Painter- Containment

PREVAILING WAGE RATE

	05/04/17
Journeyman	W35.18 B24.75 T59.93

Craft: Painter- Containment

COMMENTS/NOTES

NOTE: These rates shall require no painting, but used in a supporting capacity only, such as wrapping, boxing, fencing, etc. on tanks.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate..

- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Painter-Elevated Water Tanks

PREVAILING WAGE RATE

	05/04/17
Foreman	W48.92 B24.92 T73.84
General Foreman	W50.92 B24.92 T75.84
Journeyman	W43.92 B24.92 T68.84

Craft: Painter-Elevated Water Tanks

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	PAINTER	BRIDGES							

Craft: Painter-Elevated Water Tanks

COMMENTS/NOTES

These rates apply to: All new and repaint elevated water tanks (interior and exterior).

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Painter-Structural Steel

PREVAILING WAGE RATE

	05/04/17
Foreman	W47.87 B25.27 T73.14
General Foreman	W49.87 B25.27 T75.14
Journeyman	W42.87 B25.27 T68.14

Craft: Painter-Structural Steel

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	PAINTER	BRIDGES							

Craft: Painter-Structural Steel

COMMENTS/NOTES

These rates apply to: All work in power plants (any aspect). On steeples, on dams, on hangers, transformers, substations, etc. and on open steel, whether new or repaint. All new work (excluding traditional commercial painting work) in refineries, tank farms, water/sewerage treatment facilities and on pipelines.

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Paperhanger - New Construction

PREVAILING WAGE RATE

	05/17/18	05/01/19	05/01/20
Foreman	W45.82 B24.11 T69.93	W46.75 B24.11 T70.86	W47.68 B24.11 T71.79
Journeyman	W40.75 B24.11 T64.86	W41.68 B24.11 T65.79	W42.61 B24.11 T66.72

Craft: Paperhanger - New Construction

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	PAINTER	NEW	CONSTR	TION					
				UC						

Ratio of Apprentices to Journeymen - 1:4

Craft: Paperhanger - New Construction

COMMENTS/NOTES

FOREMEN REQUIREMENTS:

- When there are 4 or more Paperhangers on a job, 1 shall be designated a Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.

- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.

- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Paperhanger - Renovation

PREVAILING WAGE RATE

	05/17/18	05/01/19	05/01/20
Foreman	W33.11 B19.81 T52.92	W34.13 B19.81 T53.94	W35.15 B19.81 T54.96
Journeyman	W30.10 B19.81 T49.91	W31.03 B19.81 T50.84	W31.96 B19.81 T51.77

Craft: Paperhanger - Renovation

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
		SEE	PAINTER	NEW	CONSTR	TION				
					UC					

Ratio of Apprentices to Journeymen - 1:4

Craft: Paperhanger - Renovation

COMMENTS/NOTES

NOTE: These rates may only be used on jobs where no major alterations occur, and where not more than 3 other trades are present on the job, but may NOT, under any circumstances, be used for work on bridges, stacks, elevated tanks, or generating stations.

FOREMEN REQUIREMENTS:

- When there are 4 or more Paperhangers on a job, 1 shall be designated a Foreman.

OVERTIME:

- Hours in excess of 8 per day and 40 per week shall be paid at time and one-half the regular rate.
- Four 10-hour days may be worked, at straight time, Monday through Sunday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Pipefitter PREVAILING WAGE RATE

	05/01/18	05/01/19
Foreman	W53.23	W0.00
	B42.41	B0.00
	T95.64	T97.82
Journeyman	W49.48	W0.00
	B39.43	B0.00
	T88.91	T91.13

Craft: Pipefitter APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	35%	45%	55%	65%	75%					
Yearly										
Benefit	18.22	22.15	24.59	27.04	29.49					

Ratio of Apprentices to Journeymen - 1:5

Craft: Pipefitter COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- When there are 2 or more Journeyman Pipefitters on a job, 1 shall be designated a Foreman.
- There shall be a Foreman for every 8 Journeyman Pipefitters on a job.

The regular workday shall be 8 hours between 7:00 AM and 3:30 PM.

SHIFT DIFFERENTIAL:

- 2nd Shift (3:30 PM-11:30 PM) shall work 7.5 hours and receive 8 hours pay at the regular rate, plus 10% per hour on the total rate.
- 3rd Shift (11:30 PM-7:00 AM) shall work 7 hours and receive 8 hours pay at the regular rate, plus 15% per hour on the total rate.

OVERTIME:

- All hours worked in excess of 8 per day, Monday through Friday, and all hours worked on Saturday, shall be paid at time and one-half, inclusive of benefits. All hours on Sunday and holidays shall be paid at double time, inclusive of benefits.
- By mutual agreement, employees may work four 10-hour days, Monday to Thursday, at straight time rate. Friday may be used as a make-up day for a day lost to inclement weather, and may be paid at straight time. If Friday is not a make-up day, the first 8 hours shall be paid at time and one-half, inclusive of benefits; hours in excess of 8 shall be paid at double time, inclusive of benefits.

SHIFT DIFFERENTIAL (Maintenance Work Only):

- 2nd Shift (3:30 PM-11:30 PM) shall work 7.5 hours and receive 8 hours pay at the regular rate, plus 10% per hour on the total rate.
- 3rd Shift (11:30 PM-7:00 AM) shall work 7 hours and receive 8 hours pay at the regular rate, plus 15% per hour on the total rate.

OVERTIME (Maintenance Work Only):

- All hours in excess of 8 per day, Monday through Saturday, shall be paid at time and one-half, inclusive of benefits. All

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

hours on Sundays and holidays shall be paid at double time, inclusive of benefits.

NOTE: Maintenance work is work to repair, restore, or improve the efficiency of existing facilities. This does NOT apply to ANY new construction.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays are observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Plasterer

PREVAILING WAGE RATE

See Bricklayer, Stone Mason Rates

Craft: Plasterer

COMMENTS/NOTES

See BRICKLAYER, STONE MASON Rates

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Plumber PREVAILING WAGE RATE

	05/01/18
Foreman	W58.41 B34.66 T93.07
General Foreman	W62.19 B34.66 T96.85
Journeyman	W54.08 B34.66 T88.74

Craft: Plumber APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	30%	45%	55%	65%	75%					
Benefits	10.15	15.23	18.61	22.00	25.38					

Ratio of Apprentices to Journeymen - *

* Employers may employ 1 apprentice on any job where 1 or 2 journeymen are employed. Thereafter, 1 apprentice may be employed for every 4 journeymen.

Craft: Plumber COMMENTS/NOTES

APPRENTICE RATE SCHEDULE AS OF 5-1-18:

INTERVAL	PERIOD AND RATES				
Yearly	30%	45%	55%	65%	75%
Benefits	13.35	19.71	21.51	23.34	25.13

FOREMAN REQUIREMENTS:

- On any job having 2 or more Plumbers, 1 must be designated a Foreman.
- On any job having 9 or more Plumbers, 2 shall be designated as Foremen.

The regular workday shall consist of 8 hours between 7:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must continue for a minimum of 5 consecutive workdays.
- When two shifts are worked, the second shift shall work 7.5 hours and receive 8 hours pay, at a rate equal to the hourly rate plus 10%, inclusive of benefits.
- When a third shift is worked, the third shift shall work 7 hours and receive 8 hours pay, at a rate equal to the hourly rate plus 15%, inclusive of benefits.

OVERTIME:

- All hours in excess of 8 per day, or before of after the regular workday that are not shift work, Monday through Friday, and all hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sunday and holidays, shall be paid at double the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Roofer PREVAILING WAGE RATE

	06/07/18
Foreman	W39.52 B26.28 T65.80
Journeyman	W37.52 B26.28 T63.80

Craft: Roofer APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	15.00	18.76	22.51	26.26	30.01	33.77				
Benefits	0.00	0.00	21.40	21.40	21.40	21.40				

Ratio of Apprentices to Journeymen - *

- * A) For roofing jobs that are of the 1 or single ply nature: 1:2 or fraction thereof
- B) For roofing jobs on new built up roofs: 1:3 or fraction thereof
- C) For roofing jobs that are of a tear-off nature: 1:2 or fraction thereof
- D) For roofing jobs {not requiring complete removal of existing systems, installation done over existing roof}: 1:3 or fraction thereof

Craft: Roofer COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM AFTER 4-1-17:

INTERVAL	PERIOD AND RATES							
6 Months	15.00	18.76	22.51	24.38	26.26	28.14	30.01	33.77
Benefits	0.00	0.00	21.40	21.40	21.40	21.40	21.40	21.40

Pitch: +.50 per hour

Mop Man: +.30 per hour

The regular workday consists of 8 hours between 8:00 AM and 4:30 PM.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays, Sundays, and holidays shall be paid at time and one-half the regular rate.

RECOGNIZED HOLIDAYS: New Year's Day, Good Friday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Sheet Metal Sign Installation

PREVAILING WAGE RATE

	04/03/19
Foreman	W36.79 B34.37 T71.16
Journeyman	W35.54 B34.37 T69.91

Craft: Sheet Metal Sign Installation

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 hours	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%
Benefits	11.63	13.26	14.88	16.52	18.57	20.23	21.90	23.56	25.23	26.90

Ratio of Apprentices to Journeymen - 1:3

Craft: Sheet Metal Sign Installation

COMMENTS/NOTES

FOREMAN REQUIREMENT:

When there are 6 or more Sheet Metal Sign Installers on a job, 1 shall be designated a Foreman.

The regular workday consists of 8 hours, between 7:00 AM and 3:30 PM.

OVERTIME:

Hours before or after the regular workday, Monday through Friday, and all hours worked on Saturday shall be paid at time and one-half the hourly rate. All hours on Sunday and holidays shall be paid at double the hourly rate.

Four(4) 10 hour days may be worked, Monday through Friday, at straight time, for projects lasting at least one week in duration. The fifth day may be used as a make-up day at straight time for a day lost due to inclement weather. However, if the fifth day is not a make-up day, all hours worked will be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Saturday holidays observed the preceding Friday, Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Sheet Metal Worker

PREVAILING WAGE RATE

	10/17/18	06/01/19	06/01/20
Foreman	W51.29	W0.00	W0.00
	B42.93	B0.00	B0.00
	T94.22	T97.22	T100.47
General Foreman	W52.29	W0.00	W0.00
	B42.93	B0.00	B0.00
	T95.22	T98.22	T101.47
Journeyman	W47.79	W0.00	W0.00
	B42.93	B0.00	B0.00
	T90.72	T93.72	T96.97

Craft: Sheet Metal Worker

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	Yearly	35%	45%	55%	65%	of	Journey	man	Wage	Rate
Benefit	35%	45%	55%	65%	of	Journey	man	Benefit	Rate	

Ratio of Apprentices to Journeymen - 1:4

Craft: Sheet Metal Worker

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- When there are 2 or more Sheet Metal Workers on a project, 1 must be designated a Foreman.
- When there are 17 or more Sheet Metal Workers on a project, 1 must be designated a General Foreman.
- When there is only 1 Sheet Metal Worker (1 Journeyman) on a project, he/she shall receive \$1.00 more than the regular Journeyman's rate.

The regular workday is 8 hours between 7:00 AM and 4:30 PM.

SHIFT DIFFERENTIAL:

- 2nd Shift (3:30 PM - 12:00 AM) : +17% of regular hourly rate
- Shift work must run for a minimum of 5 consecutive workdays.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday, that are not shift work, and the first 10 hours on Saturdays shall be paid at time and one-half of the regular rate, inclusive of benefits. Hours in excess of 10 per day on Saturday, and all hours on Sundays and holidays shall be at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Friday, at straight time, with hours in excess of 10 per day, and hours in excess of 40 per week paid at the overtime rates listed above.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Sprinkler Fitter

PREVAILING WAGE RATE

	01/01/19
Foreman	W64.33 B28.97 T93.30
General Foreman	W67.45 B28.97 T96.42
Journeyman	W60.23 B28.97 T89.20

Craft: Sprinkler Fitter

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	1000 Hours	12.25	50%	55%	60%	65%	70%	75%	80%	85%
Benefits	11.87	11.87	23.72	23.72	23.72	23.72	Intervals	7 to 10	Jourymn	Ben.

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES REGISTERED AS OF 7-1-13:

INTERVAL	PERIOD AND RATES									
1000 hours	25%	30%	40%	45%	55%	60%	70%	75%	85%	90%
Benefits	11.87	11.87	23.72	23.72	23.72	23.72	Intervals	7 to 10	receive	Journeyman Ben.

Craft: Sprinkler Fitter

COMMENTS/NOTES

The regular workday consists of 8 consecutive hours between 6:00 AM and 4:30 PM.

FOREMAN REQUIREMENTS:

- The first Sprinkler Fitter on the job must be designated a Foreman.
- On any job having 12 or more Sprinkler Fitters, one must be designated a General Foreman.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 2 consecutive workdays.
- 2nd and 3rd shift shall receive an additional 15% of the regular rate, per hour.
- Any "off hours" shift starting at 8:00 PM or later shall receive an additional 25% of the regular rate, per hour.

OVERTIME:

The first 2 hours in excess of 8 per day, after the regular workday that are not shift work, Monday through Friday, shall be paid at time and one-half the regular rate. Hours worked in excess of 10 per day, Monday through Friday, and all hours on Saturday, Sunday and holidays, shall be paid double the regular rate.

Four 10 hour days may be worked, Monday through Friday, at straight-time.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Tile Finisher-Marble PREVAILING WAGE RATE

	01/01/19
Finisher	W47.07 B34.58 T81.65

Craft: Tile Finisher-Marble APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	40%	45%	50%	55%	60%	65%	70%	75%	85%	95%

Ratio of Apprentices to Journeymen - 1:4

Craft: Tile Finisher-Marble COMMENTS/NOTES

OVERTIME:

Hours in excess of 7 per day, Monday through Friday, and the first 7 hours on Saturdays shall be paid at time and one half the regular rate, inclusive of benefits. Hours in excess of 7 on Saturdays and all hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Tile Setter - Ceramic PREVAILING WAGE RATE

	12/03/18
Finisher	W45.08 B30.27 T75.35
Setter	W58.37 B33.69 T92.06

Craft: Tile Setter - Ceramic APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	35%	40%	50%	55%	60%	65%	70%	75%	80%	90%

Ratio of Apprentices to Journeymen - 1:4

Craft: Tile Setter - Ceramic COMMENTS/NOTES

OVERTIME:

Hours in excess of 7 per day, and the first 10 hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Saturdays after 10 hours shall be paid double the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Tile Setter - Marble

PREVAILING WAGE RATE

	01/01/19
Tile Setter	W59.03 B36.82 T95.85

Craft: Tile Setter - Marble

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	40%	45%	50%	55%	60%	65%	70%	75%	85%	95%

Ratio of Apprentices to Journeymen - 1:4

Craft: Tile Setter - Marble

COMMENTS/NOTES

OVERTIME:

Hours in excess of 7 per day, Monday through Friday, and the first 7 hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. Hours in excess of 7 on Saturdays, and all hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Tile Setter - Mosaic & Terrazzo

PREVAILING WAGE RATE

	01/01/19
Grinder or Assistant	W54.24 B36.03 T90.27
Mechanic	W55.84 B36.05 T91.89
Terrazzo Resinous Worker	W46.57 B29.20 T75.77

Craft: Tile Setter - Mosaic & Terrazzo

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	50%	55%	60%	65%	70%	75%	85%	95%	100%	

Ratio of Apprentices to Journeymen - 1:5

Craft: Tile Setter - Mosaic & Terrazzo

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM AFTER 7-1-17:

INTERVAL	PERIOD AND RATES						
1500 Hours	35%	45%	60%	70%	80%	90%	100%

The regular workday consists of 7 hours, between 8:00 AM and 3:30 PM.

OVERTIME:

- Hours in excess of 7 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Monday after Easter, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Truck Driver

PREVAILING WAGE RATE

	11/01/18
Bucket, Utility, Pick-up, Fuel Delivery trucks	W37.66 B35.80 T73.46
Dump truck, Asphalt Distributor, Tack Spreader	W37.66 B35.80 T73.46
Euclid-type vehicles (large, off-road equipment)	W37.81 B35.80 T73.61
Helper on Asphalt Distributor truck	W37.66 B35.80 T73.46
Slurry Seal, Seeding/Fertilizing/ Mulching truck	W37.66 B35.80 T73.46
Straight 3-axle truck	W37.71 B35.80 T73.51
Tractor Trailer (all types)	W37.81 B35.80 T73.61
Vacuum or Vac-All truck (entire unit)	W37.66 B35.80 T73.46
Winch Trailer	W37.91 B35.80 T73.71

Craft: Truck Driver

COMMENTS/NOTES

BLENDED RATE:

When a truck driver is performing work on the site and also serving as a material delivery driver, the driver shall be paid a "blended rate" which shall be 80% of the above-listed wage rates, plus the full benefit rate. This rate shall be used when the driver "round robins" for a minimum of 6 hours during the work day.

HAZARDOUS WASTE REMOVAL:

- On hazardous waste removal work on a State designated hazardous waste site where the driver is in direct contact with hazardous materials and when personal protective equipment is required for respiratory, skin, and eye protection, the driver shall receive an additional \$3.00 per hour (with or without protective gear).
- A hazardous waste related certified worker at a designated hazardous waste site who is not working in a zone requiring level A, B or C personal protection shall receive an additional \$1.00 per hour.

TRUCK FOREMAN: \$.75 cents per hour above regular rate. Overtime shall be increased accordingly.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

The regular workday shall be 8 hours, starting between 6:00 AM and 8:00 AM.

SHIFT DIFFERENTIAL:

- Shifts starting at 4:00 PM (2nd Shift): + \$2.50 per hour.
- Shifts starting at 12:00 AM (midnight/3rd Shift): time and one-half the hourly rate.
- Shifts starting at a time other than from 6:00 AM to 8:00 AM, when such hours are mandated by the project owner: + \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Employees may work four 10-hour days at straight time, Monday through Thursday, with Friday used as a make-up day for a lost day. If Friday is not a make-up day, then all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day (Decoration Day), July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday. The day after Thanksgiving may be substituted for Veterans' Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Truck Driver-Material Delivery Driver

PREVAILING WAGE RATE

	04/01/19	04/01/20
Driver	W25.10 B15.25 T40.35	W25.60 B15.71 T41.31

Craft: Truck Driver-Material Delivery Driver

COMMENTS/NOTES

BLENDED RATE:

When a truck driver is performing work on the site and also serving as a material delivery driver, the driver shall be paid a "blended rate". See the "Truck Driver" craft for the blended rates.

Truck Foreman/Shop Steward: +\$0.25 per hour

SHIFT DIFFERENTIALS:

- 2nd Shift shall receive an additional \$0.50 per hour
- 3rd Shift shall receive time and one-half the hourly rate.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday that are not shift work, Monday through Friday, and all hours on Saturday shall be paid at time and one-half the hourly rate. All hours on Sunday and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day (Decoration Day), July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday. The day after Thanksgiving may be substituted for Veterans' Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Welder

PREVAILING WAGE RATE

Welder

Craft: Welder

COMMENTS/NOTES

Welders rate is the same as the craft to which the welding is incidental .

STATEWIDE RATES

OPERATING ENGINEERS **Rates Expiration Date :**

{For apprentice rates refer to "Operating Engineers" apprentice rates in any county rate package}

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for 5 consecutive workdays.
- When 2 shifts are worked, the second shift shall receive an additional 10% of the regular rate inclusive of benefits, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the regular rate inclusive of benefits, per hour. The third shift shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the regular rate inclusive of benefits, per hour.
- When such hours are mandated by the project owner, a shift that starts between 8:00 PM and midnight and ends by 6:00 AM Saturday, or that starts after 8:00 PM on Sunday, provided there are consecutive hours of work within the shift, shall receive an additional 15% of the regular rate, inclusive of benefits.
- On Highway, Road, Street, and Sewer projects irregular shifts starting between 5:00 PM and 12:00 AM may be worked Monday through Friday, and shall receive an additional 15% of the regular rate, inclusive of benefits. When working with other trades that receive a higher irregular shift rate, the Operating Engineer shall also receive the higher irregular shift rate.

OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veteran's Day.

On hazardous waste removal work or asbestos removal work, on a state or federally designated hazardous waste site, where the operating engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin, and eye protection, the operating engineer shall receive an additional 20% of the hourly wage, per hour.

OPERATING ENGINEERS **Rates Expiration Date :**

Effective Dates:

01/01/2019		07/01/2019	
Rate	Fringe	Total	Total
50.18	32.85	83.03	85.38

CLASSIFICATIONS:

A-Frame

Backhoe (combination)

Boom Attachment on loaders (Except pipehook)

Boring & Drilling Machine

Brush Chopper, Brush Shredder, Tree Shredder, Tree Shearer

Bulldozer, finish grade

Cableway

Carryall

Concrete Pump

Concrete Pumping System (Pumpcrete & similar types)

Conveyor, 125 feet or longer

Drill Doctor (Duties include dust collector and maintenance)

Front End Loader (2 cu. yds. but less than 5 cu. yds.)

Grader, finish

Groove Cutting Machine (ride-on type)

Heater Planer

Hoist: Outside Material Tower Hoist (all types including steam, gas, diesel, electric, air hydraulic, single and double drum, concrete, brick shaft caisson, snorkle roof, and other similar types, Except Chicago-boom type) * receives an additional \$1.00 per hour on 100 ft. up to 199 ft. total height, and an additional \$2.00 per hour on 200 ft. and over total height.

Hydraulic Crane (10 tons & under)

Hydraulic Dredge

Hydro-Axe

Hydro-Blaster

OPERATING ENGINEERS **Rates Expiration Date :**

Effective Dates:

01/01/2019		07/01/2019	
Rate	Fringe	Total	Total
50.18	32.85	83.03	85.38

CLASSIFICATIONS:

Jack (screw, air hydraulic, power-operated unit, or console type, Except hand jack or pile load test type)

Log Skidder

Pan

Paver, concrete

Plate & Frame Filter Press

Pumpcrete (unit type)

Pumpcrete, Squeezecrete, or Concrete Pumping machine (regardless of size)

Scraper

Side Boom

Straddle Carrier (Ross and similar types)

Whiphammer

Winch Truck (hoisting)

OPERATING ENGINEERS **Rates Expiration Date :**

Effective Dates:

01/01/2019		07/01/2019	
Rate	Fringe	Total	Total
48.27	32.85	81.12	83.47

CLASSIFICATIONS:

- Asphalt Curbing Machine
- Asphalt Plant Engineer
- Asphalt Spreader
- Autograde Curb Trimmer & Sidewalk Shoulder Slipform (CMI & similar types)
- Autograde Curecrete Machine (CMI & similar types)
- Autograde Tube Finisher & Texturing Machine (CMI & similar types)
- Bar Bending Machines (Power)
- Batcher, Batching Plant, & Crusher [On Site]
- Belt Conveyor System
- Boom-Type Skimmer Machine
- Bridge Deck Finisher
- Bulldozer (all sizes)
- Captain (Power Boats)
- Car Dumper (railroad)
- Compressor & Blower unit for loading/unloading of concrete, cement, fly ash, or similar type materials (used independently or truck-mounted)
- Compressor (2 or 3 battery)
- Concrete Breaking Machine
- Concrete Cleaning/Decontamination Machine
- Concrete Finishing Machine
- Concrete Saw or Cutter (ride-on type)
- Concrete Spreader (Hetzl, Rexomatic & similar types)
- Concrete Vibrator

OPERATING ENGINEERS **Rates Expiration Date :**

Effective Dates:

01/01/2019		07/01/2019	
Rate	Fringe	Total	Total
48.27	32.85	81.12	83.47

CLASSIFICATIONS:

- Conveyors - under 125 feet
- Crane Signalman
- Crushing Machine
- Directional Boring Machine
- Ditching Machine - Small (Ditchwitch, Vermeer or similar types)
- Dope Pot - Mechanical (with or without pump)
- Dumpster
- Elevator
- Fireman
- Fork Lift (Economobile, Lull & similar types)
- Front End Loader (1 cu. yd. and over but less than 2 cu. yds.)
- Generator (2 or 3 battery)
- Giraffe Grinder
- Goldhofer/Hydraulic Jacking Trailer
- Grader & Motor Patrols
- Grout Pump
- Gunnite Machine (Excluding nozzle)
- Hammer - Vibratory (in conjunction with generator)
- Heavy Equipment Robotics - Operator/Technician
- Hoist (roof, tigger, aerial platform hoist, house car)
- Hopper
- Hopper Doors (power operated)
- Ladder (motorized)

OPERATING ENGINEERS **Rates Expiration Date :**

Effective Dates:

01/01/2019		07/01/2019	
Rate	Fringe	Total	Total
48.27	32.85	81.12	83.47

CLASSIFICATIONS:

Laddervator

Locomotive (Dinky-type)

Maintenance Utility Man

Master Environmental Maintenance Technician

Mechanic

Mixer (Except paving mixers)

Pavement Breaker (truck-mounted or small self-propelled
ride-on type)

Pavement Breaker - maintenance of compressor or hydraulic unit

Pipe Bending Machine (power)

Pitch Pump

Plaster Pump (regardless of size)

Post Hole Digger (post pounder, auger)

Rod Bending Machines

Roller (black top)

Scale (power)

Seamen Pulverizing Mixer

Shoulder Widener

Silo

Skimmer Machine (boom type)

Steel Cutting Machine (service & maintenance)

Tamrock Drill

Tractor

Transfer Machines

OPERATING ENGINEERS **Rates Expiration Date :**

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
48.27	32.85	81.12	83.47

CLASSIFICATIONS:

Tug Captains

Tug Master (Power Boats)

Ultra High Pressure Waterjet Cutting Tool System -
Operator/Maintenance Technician

Vacuum Blasting Machine - Operator/Maintenance Technician

Vibrating Plant (used with unloading)

Welder & Repair Mechanic

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
44.93	32.85	77.78	80.13

CLASSIFICATIONS:

Assistant Engineer/Oiler

Driller's Helper

Field Engineer - Transit man or Instrument man

Maintenance Apprentice (Deckhand)

Maintenance Apprentice (Oiler)

Mechanic's Helper

Off Road Back Dump

Tire Repair & Maintenance

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
42.35	32.85	75.20	77.55

CLASSIFICATIONS:

Field Engineer - Rodman or Chainman

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OPERATING ENGINEERS Rates Expiration Date :

Effective Dates:

	01/01/2019		07/01/2019
Rate	Fringe	Total	Total
52.51	32.85	85.36	87.71

CLASSIFICATIONS:

Lead Engineer, Foreman Engineer, Safety Engineer (minimum)

OPERATING ENGINEERS **Rates Expiration Date :**

Effective Dates:

01/01/2019		07/01/2019	
Rate	Fringe	Total	Total
51.77	32.85	84.62	86.97

CLASSIFICATIONS:

Autograde Pavement Profiler (CMI & similar types)

Autograde Pavement Profiler - Recycle Type (CMI & similar types)

Autograde Placer/Trimmer/Spreader Combination (CMI & similar types)

Autograde Slipform Paver (CMI & similar types)

Backhoe (Excavator)

Central Power Plant

Concrete Paving Machine

Cranes, Derricks, Pile Drivers (all types), under 100 tons with a boom (including jib and/or leads) under 100 ft.

Draglines

Drill, Bauer, AMI and similar types

Drillmaster, Quarrymaster

Drillmaster/Quarrymaster (down-the-hole drill), rotary drill, self-propelled hydraulic drill, self-powered drill

Elevator Grader

Field Engineer-Chief of Party

Front End Loader (5 cu. yards or larger)

Gradall

Grader, Rago

Helicopter Co-Pilot

Helicopter Communications Engineer

Juntann Pile Driver

Locomotive (large)

Mucking Machine

OPERATING ENGINEERS **Rates Expiration Date :**

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
51.77	32.85	84.62	86.97

CLASSIFICATIONS:

Pavement & Concrete Breaker (Superhammer & Hoe Ram)

Pile Driver

Prentice Truck

Roadway Surface Grinder

Scooper (loader & shovel)

Shovel (Excavator)

Trackhoe (Excavator)

Tree Chopper with boom

Trenching Machine (cable plow)

Tunnel Boring Machine

Vacuum Truck

OPERATING ENGINEERS **Rates Expiration Date :**

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
46.64	32.85	79.49	81.84

CLASSIFICATIONS:

- Chipper
- Compressor (single)
- Concrete Spreader (small type)
- Conveyor Loader (Except elevator graders)
- Engines, Large Diesel (1620 HP) & Staging Pump
- Farm Tractor
- Fertilizing Equipment (operation & maintenance)
- Fine Grade Machine (small type)
- Form Line Grader (small type)
- Front End Loader (under 1 cubic yard)
- Generator (single)
- Grease, Gas, Fuel, & Oil Supply Trucks
- Heaters (Nelson or other type)
- Lights - portable generating light plant
- Mixer, Concrete (small)
- Mulching Equipment (operation & maintenance)
- Power Broom or Sweeper
- Pump (diesel engine & hydraulic - regardless of power)
- Pump (larger than 2 inch suction, including submersible pumps)
- Road Finishing Machine (small type)
- Roller - grade, fill, or stone base
- Seeding Equipment (operation & maintenance)
- Sprinkler & Water Pump Trucks

OPERATING ENGINEERS **Rates Expiration Date :**

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
46.64	32.85	79.49	81.84

CLASSIFICATIONS:

Steam Generator or Boiler

Stone Spreader

Tamping Machine (vibrating ride-on type)

Temporary Heating Plant (Nelson or other type, including propane, natural gas, and flow-type units)

Water or Sprinkler Truck

Welding Machine (gas, diesel, or electric convertor, of any type)

Welding System - Multiple (rectifier transformer type)

Wellpoint Systems (including installation by bull gang and maintenance)

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
53.59	32.85	86.44	88.79

CLASSIFICATIONS:

Helicopter Pilot/Engineer

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
58.27	32.85	91.12	93.47

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with boom (including jib and/or leads) 140 ft. and over

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
57.27	32.85	90.12	92.47

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with boom (including jib and/or leads) from 100 ft. to 139 ft.

OPERATING ENGINEERS **Rates Expiration Date :**

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
53.77	32.85	86.62	88.97

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types) , under 100 tons with a boom (including jib and/or leads) 140 ft. and over

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
56.27	32.85	89.12	91.47

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with a boom (including jib and/or leads) under 100 ft.

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
52.77	32.85	85.62	87.97

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), under 100 tons with a boom (including jib and/or leads) from 100 ft. to 139 ft.

STRUCTURAL STEEL ERECTION **Rates Expiration Date :**

{For apprentice rates refer to "Operating Engineers" apprentice rates in any county rate package}

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for 5 consecutive workdays.
- When 2 shifts are worked, the second shift shall receive an additional 10% of the regular rate inclusive of benefits, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the regular rate inclusive of benefits, per hour. The third shift shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the regular rate inclusive of benefits, per hour.
- When such hours are mandated by the project owner, a shift that starts between 8:00 PM and midnight and ends by 6:00 AM Saturday, or that starts after 8:00 PM on Sunday, provided there are consecutive hours of work within the shift, shall receive an additional 15% of the regular rate, inclusive of benefits.
- On Highway, Road, Street, and Sewer projects irregular shifts starting between 5:00 PM and 12:00 AM may be worked Monday through Friday, and shall receive an additional 15% of the regular rate, inclusive of benefits. When working with other trades that receive a higher irregular shift rate, the Operating Engineer shall also receive the higher irregular shift rate.

OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veteran's Day.

On hazardous waste removal work or asbestos removal work, on a state or federally designated hazardous waste site, where the operating engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin, and eye protection, the operating engineer shall receive an additional 20% of the hourly wage, per hour.

Effective Dates:

	01/01/2019		07/01/2019
Rate	Fringe	Total	Total
55.40	32.85	88.25	90.60

CLASSIFICATIONS:

Helicopter Co-Pilot & Communications Engineer

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NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

STRUCTURAL STEEL ERECTION Rates Expiration Date :

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
51.34	32.85	84.19	86.54

CLASSIFICATIONS:

A-Frame

Cherry Picker -10 tons or less (Over 10 tons use crane rate)

Hoist (all types Except Chicago-boom)

Jack (screw, air hydraulic, power-operated unit or console type, Except hand jack or pile load test type)

Side Boom

Straddle Carrier

STRUCTURAL STEEL ERECTION **Rates Expiration Date :**

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
48.68	32.85	81.53	83.88

CLASSIFICATIONS:

- Aerial Platform Used On Hoists
- Apprentice Engineer/Oiler with Compressor or Welding Machine
- Captain (Power Boats)
- Compressor (2 or 3 in battery)
- Concrete Cleaning/Decontamination Machine Operator
- Conveyor or Tugger Hoist
- Directional Boring Machine
- Elevator or House Car
- Fireman
- Forklift
- Generator (2 or 3)
- Heavy Equipment Robotics, Operator/Technician
- Maintenance Utility Man
- Master Environmental Maintenance Technician
- Tug Master (Power Boats)
- Ultra High Pressure Waterjet Cutting Tool System Operator/Maintenance Technician
- Vacuum Blasting Machine Operator/Maintenance Technician
- Welding Machines, Gas or Electric Converters on any type-2 or 3 in battery including diesels

STRUCTURAL STEEL ERECTION **Rates Expiration Date :**

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
47.15	32.85	80.00	82.35

CLASSIFICATIONS:

Compressor (Single)

Generators

Welding Machines, Gas, Diesel, Or Electric Converters of any type-single

Welding System, Multiple (Rectifier Transformer Type)

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
45.39	32.85	78.24	80.59

CLASSIFICATIONS:

Assistant Engineer/Oiler

Drillers Helper

Field Engineer - Transit/Instrument Man

Maintenance Apprentice (Deckhand)

Maintenance Apprentice (Oiler)

Off Road Back Dump

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
52.96	32.85	85.81	88.16

CLASSIFICATIONS:

Lead Engineer, Foreman Engineer, Safety Engineer (Minimum)

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
42.35	32.85	75.20	77.55

CLASSIFICATIONS:

Field Engineer - Rodman or Chainman

STRUCTURAL STEEL ERECTION **Rates Expiration Date :**

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
52.10	32.85	84.95	87.30

CLASSIFICATIONS:

Field Engineer-Chief of Party

Vacuum Truck

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
60.29	32.85	93.14	95.49

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms, including jib, 140 ft. and over, above ground). Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, 140 ft. and over, above ground), and Pile Drivers (all types) 100 tons and over and Tower Cranes.

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
58.63	32.85	91.48	93.83

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, less than 140 ft. above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, less than 140 ft. above ground), Pile Drivers (all types), 100 tons and over and Tower Crane.

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
55.79	32.85	88.64	90.99

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, 140 ft. and over, above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, 140 ft. and over, above ground), Pile Drivers (all types), under 100 tons.

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
54.13	32.85	86.98	89.33

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, less than 140 ft. above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, less than 140 ft. above ground), Pile Drivers (all types), under 100 tons.

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

STRUCTURAL STEEL ERECTION Rates Expiration Date :

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
55.79	32.85	88.64	90.99

CLASSIFICATIONS:

Helicopter Pilot & Engineer

TEST BORING PRELIMINARY TO CONSTRUCTION-SOUTH/WEST **Rates Expiration Date :**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Hunterdon, Mercer, Monmouth, Ocean, Salem, Sussex, Warren

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for 5 consecutive workdays.
- When 2 shifts are worked, the second shift shall receive an additional 10% of the regular rate inclusive of benefits, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the regular rate inclusive of benefits, per hour. The third shift shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the regular rate inclusive of benefits, per hour.
- When such hours are mandated by the project owner, a shift that starts between 8:00 PM and midnight and ends by 6:00 AM Saturday, or that starts after 8:00 PM on Sunday, provided there are consecutive hours of work within the shift, shall receive an additional 15% of the regular rate, inclusive of benefits.
- On Highway, Road, Street, and Sewer projects irregular shifts starting between 5:00 PM and 12:00 AM may be worked Monday through Friday, and shall receive an additional 15% of the regular rate, inclusive of benefits. When working with other trades that receive a higher irregular shift rate, the Operating Engineer shall also receive the higher irregular shift rate.

OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veteran's Day.

On hazardous waste removal work or asbestos removal work, on a state or federally designated hazardous waste site, where the operating engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin, and eye protection, the operating engineer shall receive an additional 20% of the hourly wage, per hour.

Effective Dates:

	01/01/2019		07/01/2019
Rate	Fringe	Total	Total
51.77	32.85	84.62	86.97

CLASSIFICATIONS:

Driller

Effective Dates:

	01/01/2019		07/01/2019
Rate	Fringe	Total	Total
44.93	32.85	77.78	80.13

CLASSIFICATIONS:

Driller's Helper

FREE AIR TUNNEL JOBS **Rates Expiration Date :**

{For apprentice rates refer to "Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
44.25	31.53	75.78	78.28

CLASSIFICATIONS:

Walking Boss & Superintendent

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
43.95	31.53	75.48	77.98

CLASSIFICATIONS:

Heading Foreman, Shaft Foreman, Rod Foreman, Electrician Foreman, Rigging Foreman

FREE AIR TUNNEL JOBS **Rates Expiration Date :**

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
43.45	31.53	74.98	77.48

CLASSIFICATIONS:

Iron Foreman, Caulking Foreman, Form Foreman, Cement Finishing Foreman, Concrete Foreman, Track Foreman, Cleanup Foreman, Grout Foreman

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
45.95	31.53	77.48	79.98

CLASSIFICATIONS:

Blaster

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
42.90	31.53	74.43	76.93

CLASSIFICATIONS:

Top Labor Foreman

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
42.55	31.53	74.08	76.58

CLASSIFICATIONS:

Skilled Men (including Caulker, Powder Carrier, all other skilled men)

Skilled Men (including Miner, Drill Runner, Iron Man, Conveyor Man, Manitenance Man, Safety Miner, Rigger, Block Layer, Cement Finisher, Tod Man)

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
42.40	31.53	73.93	76.43

CLASSIFICATIONS:

Semi-Skilled Men (including Bell or Signal Man Top or Bottom, Form Worker & Mover, Concrete Worker, Shaft Man, Tunnel Laborer, Caulker's Helper, all other semi-skilled)

Semi-Skilled Men (including Miner's Helper, Chuck Tender, Track Man, Nipper, Brake Man, Derail Man, Cable Man, Hose Man, Gravel Man, Form Man)

TERRITORY
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NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

FREE AIR TUNNEL JOBS Rates Expiration Date :

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
42.00	31.53	73.53	76.03

CLASSIFICATIONS:

All Others (including Powder Watchman, Change House Attendant, Top Laborer)

DRILL FOR GROUND WATER SUPPLY **Rates Expiration Date :**

The well driller and/or helper may perform all work relative to the construction, finishing, and servicing of wells, pumps and borings for ground water supply. The present methods of well drilling entailing as they do, many diverse job operations calling for drilling, pump discharge, piping, and the operation of various types of related power equipment, shall all be within the job duties and functions of the well driller and/or helper. In the event that an extension of work should occur beyond water well drilling functions, into the field of general construction work, such extension of work would come under the appropriate rates listed elsewhere in this wage determination.

- For Work Hours, Shift Differentials, Overtime Rates, and Recognized Holidays see the "Operating Engineers" section of this wage determination.

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
50.52	32.85	83.37	85.72

CLASSIFICATIONS:

Driller

Effective Dates:

01/01/2019			07/01/2019
Rate	Fringe	Total	Total
43.68	32.85	76.53	78.88

CLASSIFICATIONS:

Driller's Helper

OPERATING ENGINEERS MARINE-DREDGING **Rates Expiration Date :**

NOTE: These wage rates only apply to dredging and other marine construction activities occurring in navigable waters and their tributaries.

Boat crews carrying explosive material (dynamite, pourfex, and other similar materials) shall be paid at 120% of the hourly wage rate for hours engaged in handling of said materials. Employees required to possess a Hazardous Material Certification as a condition of employment shall be compensated at 120% of the hourly wage rate.

OVERTIME:

Hours in excess of 40 per week, and all hours on Saturdays and Sundays, shall be paid at time and one-half the hourly rate. All hours on holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Martin Luther King Day, Good Friday, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

Effective Dates:

10/01/2017

Rate	Fringe	Total
38.18	14.33	52.51

CLASSIFICATIONS:

Lead Dredgerman, Operator, Leverman

Licensed Tug Operator (over 1000 HP)

Effective Dates:

10/01/2017

Rate	Fringe	Total
33.03	13.92	46.95

CLASSIFICATIONS:

Derrick Operator, Spider/Spill Barge Operator

Engineer, Electrician, Chief Welder, Chief Mate

Fill Placer, Operator II

Licensed Boat Operator

Maintenance Engineer

Effective Dates:

10/01/2017

Rate	Fringe	Total
31.09	13.77	44.86

CLASSIFICATIONS:

Certified Welder

OPERATING ENGINEERS MARINE-DREDGING **Rates Expiration Date :**

Effective Dates:

10/01/2017

Rate	Fringe	Total
30.24	13.40	43.64

CLASSIFICATIONS:

Mate, Drag Barge Operator, Steward, Assistant Fill Placer

Welder

Effective Dates:

10/01/2017

Rate	Fringe	Total
29.26	13.32	42.58

CLASSIFICATIONS:

Boat Operator

Effective Dates:

10/01/2017

Rate	Fringe	Total
24.30	12.62	36.92

CLASSIFICATIONS:

Shoreman, Deckhand, Rodman, Scowman

MICROSURFACING/SLURRY SEAL Rates Expiration Date :

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

IN ALL OTHER COUNTIES use the Heavy and General Laborers - North "Slurry Seal Laborer" rates.

SHIFT DIFFERENTIALS:

Any shift starting at 3:30 PM or later shall receive an additional \$0.35/hr

OVERTIME:

Hours in excess of 8 per day or 40 per week shall be paid at time and one-half the hourly rate. All hours on holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

Effective Dates:

03/01/2017

Rate	Fringe	Total
36.50	21.27	57.77

CLASSIFICATIONS:

Foreman

Effective Dates:

03/01/2017

Rate	Fringe	Total
33.80	21.27	55.07

CLASSIFICATIONS:

Box man

Effective Dates:

03/01/2017

Rate	Fringe	Total
31.75	21.27	53.02

CLASSIFICATIONS:

Microsurface/Slurry Preparation

Effective Dates:

03/01/2017

Rate	Fringe	Total
31.75	21.27	53.02

CLASSIFICATIONS:

Squeegee man

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

MICROSURFACING/SLURRY SEAL Rates Expiration Date :

Effective Dates:

03/01/2017

Rate	Fringe	Total
30.30	21.27	51.57

CLASSIFICATIONS:

Cleaner, Taper

ASPHALT LABORERS - SOUTH **Rates Expiration Date :**

"THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY: Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2019		03/01/2020
Rate	Fringe	Total	Total
43.75	31.53	75.28	77.78

CLASSIFICATIONS:

Paving Foreman

Effective Dates:

	03/01/2019		03/01/2020
Rate	Fringe	Total	Total
42.30	31.53	73.83	76.33

CLASSIFICATIONS:

Head Raker

Effective Dates:

	03/01/2019		03/01/2020
Rate	Fringe	Total	Total
42.15	31.53	73.68	76.18

CLASSIFICATIONS:

Raker, Screedman, Luteman

ASPHALT LABORERS - SOUTH **Rates Expiration Date :**

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
41.90	31.53	73.43	75.93

CLASSIFICATIONS:

Tampers, Smoothers, Kettlemen,
Painters, Shovelers, Roller Boys

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
42.00	31.53	73.53	76.03

CLASSIFICATIONS:

Milling Controller

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
42.20	31.53	73.73	76.23

CLASSIFICATIONS:

Traffic Control Coordinator

TEST BORING PRELIMINARY TO CONSTRUCTION-NORTH Rates Expiration Date :

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:
Bergen, Essex, Hudson, Middlesex, Morris, Passaic, Somerset, Union

SHIFT DIFFERENTIAL:

Employees on a shift other than between the hours of 8:00 AM and 5:00 PM shall receive an additional \$1.00 per hour.

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturday shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

Hazardous Waste Pay (for Levels A, B, and C): an additional 10% of the hourly rate, per hour.

A newly hired Helper with no experience in the industry shall be paid as follows:

- 1st year on the job - 70% of Helper wage rate
- 2nd year on the job - 80% of Helper wage rate
- 3rd year on the job - 90% of Helper wage rate
- All helpers receive full fringe benefit rate.

Effective Dates:

10/17/2017

Rate	Fringe	Total
31.62	25.55	57.17

CLASSIFICATIONS:

Helper (4th year helper)

Effective Dates:

10/17/2017

Rate	Fringe	Total
39.69	25.55	65.24

CLASSIFICATIONS:

Driller

Effective Dates:

10/17/2017

Rate	Fringe	Total
45.73	25.55	71.28

CLASSIFICATIONS:

Foreman

HEAVY & GENERAL LABORERS - NORTH **Rates Expiration Date :**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Passaic, Somerset, Sussex, Union, Warren

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2019		03/01/2020
Rate	Fringe	Total	Total
41.50	31.53	73.03	75.53

CLASSIFICATIONS:

"D" Rate:

basic, landscape, asphalt, slurry seal, or railroad track laborer; utility meter installer; flagman; salamander tender; pitman; dumpman; rakers or tampers on cold patch work; wrappers or coaters of pipe; waterproofer; timberman; wagon drill or drill master helper; powder carrier; magazine tender; signal man; power buggy operator; tree cutter; operator of basic power tools

Effective Dates:

	03/01/2019		03/01/2020
Rate	Fringe	Total	Total
42.20	31.53	73.73	76.23

CLASSIFICATIONS:

"C" Rate:

pipe layer; laser man; conduit or duct line layer; operator of jack hammer, chipping hammer, pavement breaker, concrete cutter, asphalt cutter, sheet hammer, or walk-behind saw cutter; sandblaster; acetylene cutting or burning; wagon drill, directional drill, or hydraulic drill operator; drill master; core driller; traffic control coordinator; asphalt raker or lute man

HEAVY & GENERAL LABORERS - NORTH **Rates Expiration Date :**

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
42.45	31.53	73.98	76.48

CLASSIFICATIONS:

"B" Rate:

concrete finisher; setter of brick or stone pavers; stone cutter; form setter; manhole, catch basin, or inlet builder; asphalt screedman; rammer; hardscaping; gunite nozzle man

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
46.00	31.53	77.53	80.03

CLASSIFICATIONS:

"A" Rate:

blaster

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
43.75	31.53	75.28	77.78

CLASSIFICATIONS:

"FOREMAN" Rate:

labor foreman, asphalt foreman, drill foreman, pipe foreman, grade foreman, finisher foreman, concrete foreman

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
44.75	31.53	76.28	78.78

CLASSIFICATIONS:

"GENERAL FOREMAN" Rate

HEAVY & GENERAL LABORERS - SOUTH **Rates Expiration Date :**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2019		03/01/2020
Rate	Fringe	Total	Total
41.50	31.53	73.03	75.53

CLASSIFICATIONS:

basic, landscape, or railroad track laborer; utility meter installer; flagman; salamander tender; pitman; dumpman; rakers or tampers on cold patch work; wrappers or coaters of pipe; waterproofers; tree cutter, timberman

Effective Dates:

	03/01/2019		03/01/2020
Rate	Fringe	Total	Total
41.50	31.53	73.03	75.53

CLASSIFICATIONS:

wagon drill or drill master helper; powder carrier; magazine tender; signal man

HEAVY & GENERAL LABORERS - SOUTH **Rates Expiration Date :**

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
42.20	31.53	73.73	76.23

CLASSIFICATIONS:

pipe layer; laser man; conduit or duct line layer; operator of jack hammer, chipping hammer, pavement breaker, concrete cutter, asphalt cutter, sheet hammer, or walk-behind saw cutter; sandblaster; acetylene cutting or burning

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
42.20	31.53	73.73	76.23

CLASSIFICATIONS:

wagon or directional drill operator; drill master

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
46.00	31.53	77.53	80.03

CLASSIFICATIONS:

blaster

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
43.75	31.53	75.28	77.78

CLASSIFICATIONS:

labor foreman, drill foreman, pipe foreman, grade foreman, finisher foreman, concrete foreman

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
44.75	31.53	76.28	78.78

CLASSIFICATIONS:

general foreman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

HEAVY & GENERAL LABORERS - SOUTH Rates Expiration Date :

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
42.45	31.53	73.98	76.48

CLASSIFICATIONS:

concrete finisher; setter of brick or stone pavers; stone cutter; form setter; manhole, catch basin, or inlet builder; rammer; gunite nozzle man

PIPELINE - MAINLINE TRANSMISSION Rates Expiration Date :

These rates apply to the following: welding on Transportation Mainline pipe lines (cross-country pipe lines, or any segments thereof, transporting coal, gas, oil, water or other transportable materials, vapors or liquids, including portions of such pipe lines within private property boundaries up to the final metering station or connection - the point where a valve, consumer connection, or town border station divides mainline transmission lines or higher pressure lateral and branch lines from lower pressure distribution systems).

PER DIEM PAYMENT:

In addition to the total wage rate paid for each craft, the following per diem (per day) amounts must also be paid - Pipeline Journeyman: \$42.50; Pipeline Journeyman Welder: \$102.50; and Pipeline Helper: \$42.50. Note: in order to receive the per diem payment an employee must work a minimum of 8 hours in a 24 hour period.

NOTES:

- Journeymen employed as "stringer bead" welders and journeymen who are regularly employed as "hot-pass" welders shall receive \$1.00 per hour more than other journeymen.
- Welders running "stringer bead" or "hot-pass" on "cutouts" or "tie-ins" on a production basis shall be paid \$1.00 per hour above the journeymen rate.
- Whenever a welder helper is employed using a power buffer or power grinder immediately behind the stringer bead and/or hot-pass welders, and the pipe gang is set on a production basis, the helper shall be paid \$2.00 per hour above the helper rate.
- If back welding is performed inside a pipe under either or both of the following conditions, the welder engaged in the welding will receive \$3.00 per hour above the regular rate for the job only for the days on which such back welding is performed:
 - The employer elects, as a regular procedure, to back weld each line-up. This condition is not intended to apply to occasional back welding performed by the pipe gang to repair a bead, to rectify a "high-lo" condition or wall thickness, etc.
 - A welder is required to back weld a completed weld behind the firing line.
- If the welder helper is required to go inside the pipe for the purpose of brushing, buffing and grinding the weld, they shall receive a wage rate \$1.00 per hour above the regular helper rate for the days involved.
- Welders working on "hot work" shall be paid \$2.00 per hour above the regular rate for each day engaged in such work. "Hot work" is defined as work on lines in service where there is the danger of fire or explosion.

The regular workday shall be 8 hours, between 8:00 AM and 4:30 PM.

OVERTIME:

Hours in excess of 8 per day, and all hours on Sundays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

Effective Dates:

06/08/2018

Rate	Fringe	Total
54.61	29.59	84.20

CLASSIFICATIONS:

Pipeline Journeyman Welder

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ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

PIPELINE - MAINLINE TRANSMISSION Rates Expiration Date :

Effective Dates:

06/08/2018

Rate	Fringe	Total
54.61	29.59	84.20

CLASSIFICATIONS:

Pipeline Journeyman

Effective Dates:

06/08/2018

Rate	Fringe	Total
33.55	20.42	53.97

CLASSIFICATIONS:

Pipeline Helper

PIPELINE - GAS DISTRIBUTION **Rates Expiration Date :**

These rates apply to the following: welding on gas line distribution systems (that portion of the gas distribution system placed in streets, roads, subways, tunnels, viaducts, highways and easements which serves the users of gas).

SHIFT DIFFERENTIALS:

An "irregular" shift may start any time from 5:00 PM to 12:00 AM, Monday through Friday, and shall receive an additional 15% of the regular rate per hour, inclusive of benefits.

OVERTIME:

Hours in excess of forty per week, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

Effective Dates:

11/01/2018			11/01/2019
Rate	Fringe	Total	Total
60.00	23.73	83.73	86.23

CLASSIFICATIONS:

Pipeline Journeyman Welder

Effective Dates:

11/01/2018			11/01/2019
Rate	Fringe	Total	Total
60.00	23.73	83.73	86.23

CLASSIFICATIONS:

Pipeline Journeyman

Effective Dates:

11/01/2018			11/01/2019
Rate	Fringe	Total	Total
38.46	17.54	56.00	57.67

CLASSIFICATIONS:

Pipeline Helper

ASPHALT LABORERS- NORTH **Rates Expiration Date :**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Passaic, Somerset, Sussex, Union, Warren

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2019		03/01/2020
Rate	Fringe	Total	Total
43.75	31.53	75.28	77.78

CLASSIFICATIONS:

Asphalt Foreman

Effective Dates:

	03/01/2019		03/01/2020
Rate	Fringe	Total	Total
42.45	31.53	73.98	76.48

CLASSIFICATIONS:

Asphalt Screedman

Effective Dates:

	03/01/2019		03/01/2020
Rate	Fringe	Total	Total
42.20	31.53	73.73	76.23

CLASSIFICATIONS:

Asphalt Raker or Lute Man

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ASPHALT LABORERS- NORTH Rates Expiration Date :

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
41.50	31.53	73.03	75.53

CLASSIFICATIONS:

Asphalt Laborer

ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date :**

Electrician-Utility Work (North)

(For apprentice rates refer to Electrician-Utility Work (North) in any county rate package).

These rates apply to work contracted for by the following utility companies:

Public Service Electric & Gas Co. of NJ, GPU Energy, Borough of Madison Electric Department, Sussex Rural Electric Cooperative, Rockland Utilities, and Butler Municipal Electric Co.

These rates do not apply to work on substations or switching stations.

For Utility work contracted for by a utility company other than those listed above or those listed under "Electrician-Utility Work (South), see the "Outside Commercial Rates" for the county in which the jobsite is located.

* FOR OUTSIDE COMMERCIAL RATES PLEASE SEE COUNTY RATES

The regular workday is 8 hours, between 6:00 AM and 6:00 PM.

FOR EMERGENCY WORK ONLY: (emergency work is defined as work caused by storm, catastrophe, act of god, and circumstances beyond the control of the employer)-all hours of work shall be paid at double the hourly rate.

SHIFT DIFFERENTIALS:

Shift work must run for a minimum of 5 consecutive workdays.

2nd shift (between the hours of 4:30 PM and 1:00 AM): 8 hours of work + 17.3% of the regular rate, inclusive of benefits.

3rd shift (between the hours of 12:30 AM and 9:00 AM): 8 hours of work + 31.4% of the regular rate per hour, inclusive of benefits.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, that is not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.

Four 10-hour days may worked, at straight time, between 7:00 AM and 6:30 PM, Monday through Thursday.

RECOGNIZED HOLIDAYS:

New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day and Christmas Day, or day on which they are legally observed.

Effective Dates:

	12/02/2018		12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total
55.13	36.93	92.06	94.45	96.84

CLASSIFICATIONS:

Chief Lineman

Effective Dates:

	12/02/2018		12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total
52.01	34.84	86.85	89.11	91.36

CLASSIFICATIONS:

Journeyman Lineman

ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date :**

Effective Dates:

12/02/2018			12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total
52.01	34.84	86.85	89.11	91.36

CLASSIFICATIONS:

Special License Operator

Effective Dates:

12/02/2018			12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total
51.49	34.49	85.98	88.22	90.44

CLASSIFICATIONS:

Transit Man

Effective Dates:

12/02/2018			12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total
49.93	33.45	83.38	85.53	87.70

CLASSIFICATIONS:

Line Equipment Operator

Effective Dates:

12/02/2018			12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total
43.69	29.27	72.96	74.84	76.73

CLASSIFICATIONS:

Dynamite Man

Effective Dates:

12/02/2018			12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total
65.01	43.55	108.56	111.38	114.19

CLASSIFICATIONS:

General Foreman

Effective Dates:

12/02/2018			12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total
59.81	40.07	99.88	102.47	105.05

CLASSIFICATIONS:

Assistant General Foreman

ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date :**

Effective Dates:

12/02/2018			12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total
58.25	39.02	97.27	99.79	102.32

CLASSIFICATIONS:

Line Foreman

Effective Dates:

12/02/2018			12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total
42.13	28.22	70.35	72.17	73.99

CLASSIFICATIONS:

Street Light Mechanical Leader

Effective Dates:

12/02/2018			12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total
40.05	26.83	66.88	68.62	70.34

CLASSIFICATIONS:

Groundman Winch Operator

Effective Dates:

12/02/2018			12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total
40.05	26.83	66.88	68.62	70.34

CLASSIFICATIONS:

Groundman Truck Operator

Effective Dates:

12/02/2018			12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total
39.53	26.48	66.01	67.71	69.43

CLASSIFICATIONS:

Street Light Mechanic

Effective Dates:

12/02/2018			12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total
39.53	26.48	66.01	67.71	69.43

CLASSIFICATIONS:

Line Equipment Mechanic

ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date :**

Effective Dates:

12/02/2018			12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total
33.81	22.65	56.46	57.91	59.38

CLASSIFICATIONS:

Groundman 2nd Year

Effective Dates:

12/02/2018			12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total
31.21	20.91	52.12	53.47	54.80

CLASSIFICATIONS:

Groundman 1st Year

Effective Dates:

12/02/2018			12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total
51.49	34.49	85.98	88.22	90.44

CLASSIFICATIONS:

Line Equipment Foreman

ELECTRICIAN- UTILITY WORK (SOUTH) **Rates Expiration Date :**

Electrician-Utility Work (South)

(For apprentice rates refer to Electrician-Utility Work (South) in any county rate package).

These rates apply to work contracted for by the following utility company:

Atlantic City Electric.

These rates do not apply to work on substations or switching stations.

For utility work contracted for by a utility company other than the one listed above or those listed under "Electrician-Utility Work (North), see the "Outside Commercial Rates" for the county in which the jobsite is located.

* FOR OUTSIDE COMMERCIAL RATES PLEASE SEE COUNTY RATES

The regular workday is 8 hours, between 7:00 AM and 4:30 PM.

FOR EMERGENCY WORK ONLY: (emergency work is defined as work caused by storm, catastrophe, act of god, and circumstances beyond the control of the employer)- all hours of work shall be paid at double the hourly rate.

SHIFT DIFFERENTIALS:

Shift work must run for a minimum of 5 consecutive workdays.

When two (2) or three (3) shifts are worked the following shall apply:

1st shift (between the hours of 8:00 AM and 4:30 PM)

2nd shift (between the hours of 4:30 PM and 12:30 AM): 8 hours of work + 10% of the regular rate of pay for 7.5 hours worked.

3rd shift (between the hours of 12:30 AM and 8:00 AM): 8 hours of work + 15% of the regular rate of pay for 7 hours worked.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, that is not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate. All hours on Sundays and Holidays shall be paid double the hourly rate.

Four 10-hour days may be worked, at straight time, between 6:00 AM and 6:00 PM, Monday through Thursday with Friday used as a make-up day.

RECOGNIZED HOLIDAYS:

New Year's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day and Christmas Day or on days celebrated.

WORKING RULES:

There shall be a Foreman in charge of each work crew. No crews are to exceed twelve (12) men, including Foremen.

There shall be a General Foreman designated for transmission work when three (3) or more crews are on the same job and for distribution work where there are more than twenty (20) employees on site.

A small job crew shall consist of five (5) or less employees, one (1) of the Journeyman Linemen in the crew shall be designated as a Small Job Foreman.

Work performed from ladders and/or mechanical lift equipment shall be the work of Linemen and/or Apprentices.

On new construction, fitting and framing poles, towers or structures may be done by Journeymen and/or Apprentices. Groundmen may assist, but may not perform any work which would be performed by Linemen if assembled in the air.

There shall be a Journeyman Lineman in each pole setting, erection, grounding, wire and cable-pulling crew of more than three (3) men.

Effective Dates:

12/02/2018

Rate	Fringe	Total
60.86	48.05	108.91

CLASSIFICATIONS:

General Foreman

ELECTRICIAN- UTILITY WORK (SOUTH) Rates Expiration Date :

Effective Dates:

12/02/2018

Rate	Fringe	Total
54.21	44.12	98.33

CLASSIFICATIONS:

Foreman

Effective Dates:

12/02/2018

Rate	Fringe	Total
51.35	42.44	93.79

CLASSIFICATIONS:

Small Job Foreman

Effective Dates:

12/02/2018

Rate	Fringe	Total
47.55	40.18	87.73

CLASSIFICATIONS:

Heavy Equipment Operator

Effective Dates:

12/02/2018

Rate	Fringe	Total
47.55	40.18	87.73

CLASSIFICATIONS:

Cable Splicer

Effective Dates:

12/02/2018

Rate	Fringe	Total
47.55	40.18	87.73

CLASSIFICATIONS:

Journeyman Lineman

Effective Dates:

12/02/2018

Rate	Fringe	Total
47.55	40.18	87.73

CLASSIFICATIONS:

Journeyman Welder

ELECTRICIAN- UTILITY WORK (SOUTH) Rates Expiration Date :

Effective Dates:

12/02/2018

Rate	Fringe	Total
47.55	40.18	87.73

CLASSIFICATIONS:

Journeyman Painter

Effective Dates:

12/02/2018

Rate	Fringe	Total
38.04	34.55	72.59

CLASSIFICATIONS:

Light Equipment Operator

Effective Dates:

12/02/2018

Rate	Fringe	Total
33.29	31.73	65.02

CLASSIFICATIONS:

Groundman Truck Driver

Effective Dates:

12/02/2018

Rate	Fringe	Total
30.91	30.31	61.22

CLASSIFICATIONS:

Groundman 3rd Year

Effective Dates:

12/02/2018

Rate	Fringe	Total
28.53	28.91	57.44

CLASSIFICATIONS:

Groundman 2nd Year

Effective Dates:

12/02/2018

Rate	Fringe	Total
26.15	27.51	53.66

CLASSIFICATIONS:

Groundman 1st Year

TERRITORY
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NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ELECTRICIAN- UTILITY WORK (SOUTH) Rates Expiration Date :

Effective Dates:

12/02/2018

Rate	Fringe	Total
20.92	24.41	45.33

CLASSIFICATIONS:

Flagman

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS **Rates Expiration Date :**

****THESE RATES APPLY TO CONSTRUCTION ON NEW TRANS HUDSON TUNNELS ONLY****

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2019		03/01/2020
	Rate	Fringe	Total
	66.38	31.53	97.91
			101.16

CLASSIFICATIONS:

Walking Boss & Superintendent

Effective Dates:

	03/01/2019		03/01/2020
	Rate	Fringe	Total
	65.93	31.53	97.46
			100.71

CLASSIFICATIONS:

Heading Foreman, Shaft Foreman, Rod Foreman, Electrical Foreman, Rigging Foreman

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS **Rates Expiration Date :**

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
65.18	31.53	96.71	99.96

CLASSIFICATIONS:

Iron Foreman, Caulking Foreman, Form Foreman, Cement Finishing Foreman, Concrete Foreman, Track Foreman, Clean-up Foreman, Grout Foreman

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
68.93	31.53	100.46	103.71

CLASSIFICATIONS:

Blaster

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
64.35	31.53	95.88	99.13

CLASSIFICATIONS:

Top Labor Foreman

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
63.83	31.53	95.36	98.61

CLASSIFICATIONS:

Skilled Men (including Caulker, Powder Carrier, all other skilled men)

Skilled Men (including Miner, Drill Runner, Iron Man, Conveyor Man, Maintenance Man, Safety Miner, Rigger, Block Layer, Cement Finisher, Rod Man)

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
63.60	31.53	95.13	98.38

CLASSIFICATIONS:

Semi-Skilled Men (including Bell or Signal Man top or bottom, Form Worker & Mover, Concrete Worker, Shaft Man, Tunnel Laborer, Caulker's Helper, all other semi-skilled)

Semi-Skilled Men (including Miner's Helper, Chuck Tender, Track Man, Nipper, Brake Man, Derail Man, Cable Man, Hose Man, Gravel Man, Form Man)

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NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS Rates Expiration Date :

Effective Dates:

03/01/2019			03/01/2020
Rate	Fringe	Total	Total
63.00	31.53	94.53	97.78

CLASSIFICATIONS:

All others (including Powder Watchman, Change House Attendant, Top Laborer, Job Steward)



State of New Jersey

DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PO BOX 389
TRENTON, NEW JERSEY 08625-0389

April 4, 2019

LISTED CONTRACTORS AND SUBCONTRACTORS

PURSUANT TO N.J.S.A 34:11-56.37 AND 34:11-56.38 OF THE PREVAILING WAGE ACT

NO PUBLIC WORKS CONTRACT MAY BE AWARDED TO ANY OF THE FOLLOWING CONTRACTORS AND SUBCONTRACTORS OR TO ANY FIRM, CORPORATION OR PARTNERSHIP IN WHICH THEY HAVE AN INTEREST UNTIL THE EXPIRATION DATE GIVEN.

<u>CONTRACTORS AND SUBCONTRACTORS</u>	<u>ADDRESS</u>	<u>EXPIRATION DATE</u>
A P Roofing & Siding, LLC	259 Main Street, Chester, NJ 07930	12/20/2020
A. Perin Roofing & Siding, LLC Adelino Perin, President	12 Valley Place, Chester, NJ 07930	
Ackerson Contracting Inc. Denise Ackerson, President	182 Van Dyke Road, Hopewell, NJ 08525	03/05/2020
All American Demolition & Dismantling, LLC All Merican Demolition & Dismantling LLC Theodore Fiore Jr, Owner	9 Silver Spring Court, East Hanover, NJ 07936-2529	08/05/2021
All Jersey Fence Co. Agostino Ducato, Vice-President Charles Viola, President	10 Route 46 West, Clifton, NJ 07011	09/14/2019
Alvarez Painting, LLC Elvin Alvarez, Owner	223 Spring Valley Road, Paramus, NJ 07652 266 Columbus Avenue, Hasbrouck Heights, NJ 07604	
Anchor Marine of Toms River Lawarence Koos, Owner	907 Madison Ave., Apt 1L, Elizabeth, NJ 07201	08/20/2021
ANV Transport Adam Fernando, Owner	1991 Rte-9, Toms River, NJ 08755	12/18/2019
Aracon Mechanical LLC Alexander Arcadia, Principal	1391 White Oak Botton Rd, Tom River, NJ 08755	
Aztech Management, Inc. Aztech Management, Inc. Constantine Vivian, President	1546 Wooded Acres Drive, Stroudsburg, PA 18360	12/18/2021
Barbos HVAC, LLC Ihor Shcherbii, Owner	136 Ocean Ave, Monmouth Beach, NJ 07750-0775	09/18/2020
Beach Coast Builders LLC TJN Development LLC Timothy J. Noon, Owner	86 Christopher Street, Montclair, NJ 07042	11/17/2019
Bogert Millwork Company, Inc. Anthony Yaniero, Vice-President Susan Yaniero, Owner	3 - C Brynwood Gardens, Apt 18, Old Bridge, NJ 08857	08/01/2021
	3-C Brynwood gardens, Apt 18, Old Bridge, NJ 08857	
	698 Northstream Dr., Toms River, NJ 08753	02/24/2022
	698 Northstream Drive, Toms River, NJ 08753	
	105 Johnson Ave., Hackensack, NJ 07601	06/08/2019
	848 Bogert Road, River Edge, NJ 07661	
	848 Bogert Road, River Edge, NJ 07661	

CONTRACTORS AND SUBCONTRACTORS**ADDRESS****EXPIRATION DATE**

Bravo General Contractors Inc John Hunsecker, Vice-President	72 Charlotte Drive, Churchville, PA 18966 72 Charlotte Drive, Churchville, PA 18966	11/20/2020
Brian Parker, LLC Brian Parker, Owner	115 Ardmore Avenue, Haddonfield, NJ 08033 115 Ardmore Avenue, Haddonfield, NJ 08033	08/06/2020
Build Rite LLC Louis Pacelli, Manager	16 Darlington Drive, Wayne, NJ 07470 16 Darlington Drive, Wayne, NJ 07470	01/17/2020
C C & C General Contractors Claudy Antoine, Owner	568 William St, East Orange, NJ 07017 568 William St., East Orange, NJ 07017	02/19/2022
CAM Contractors Inc. Joseph Caravella, Manager Michelle Gamache-Caravella, President	179-15 Route 46 West, Suite 135, Rockaway, NJ 07866 179-15 Route 46, Rockaway, NJ 07866 179-15 Route 46, Suite 135, Rockaway, NJ 07866	12/06/2019
Cam Flooring Installations LLC Jose Fernandes Da Silva, Owner	26 Washington Street, Long Branch, NJ 07718 26 Washington St., Long Branch, NJ 07718	08/31/2019
CBC Enterprises LLC Leo Baiocco, President	424 Commerce Lane, West Berlin, NJ 08091 2383 Atco Avenue, Atco, NJ 08004	03/05/2021
Cleworth & Son, Inc. Dorothy Cleworth, President Ernest Cleworth, Vice-President	3150 Highway 27, Kendall Park, NJ 08824 3150 Highway 27, Kendall Park, NJ 08824 5 Burnham Court, Kendall Park, NJ 08824	07/22/2021
Clifford Pool Tile & Coping LLC Clifford Alphonso, Owner	84 Tecumseh Trail, Medford Lakes, NJ 08055 84 Tecumseh Trail, Medford Lakes, NJ 08055	08/16/2020
Confortini Plumbing & Heating, LLC Anthony Confortini, Owner Andrew Confortini, Vice-President	491 West County Drive, Somerville, NJ 08876 41 Bunnvale Road, Clifton, NJ 07830 491 West County Drive, Somerville, NJ 08876	07/05/2019
Cougar Power and Electric, LLC Kevin F. Mandel, Owner	126 Fountain Avenue, Piscataway, NJ 08854 186 Sunshine Drive, Piscataway, NJ 08854	01/05/2020
Dan Seeman Dan Seeman, Owner	1363 North Winchester Dr., Greenfield, IN 46140 1363 North Winchester Dr., Greenfield, IN 46140	03/26/2021
Dan's Tile and Marble LLC Dan's Tile and Marble LLC Dan Jarrell, Owner / Officer	336 McClelland Ave, Glassboro, NJ 08028 336 McClelland Ave, Glassboro, NJ 08028	06/10/2021
DAS Industrial, LLC DAS Industrial Limited Liability Company Vincent Manganiello, Managing Member	41 Pine Street, Rockaway, NJ 07866 2 Perona Road, Andover, NJ 07821	01/08/2020
Dawkins Plumbing & Construction LLC. Michael Dawkins, Manager	1057 Haddon Ave, Camden, NJ 08103 1057 Haddon Avenue, Camden, NJ 08103	01/01/2021
DCI Signs & Awnings Inc. Danny Castillo, President	110 Riverside Avenue, Newark, NJ 07104-0710 645 Bancroft Road, Brick, NJ 08724	04/10/2020
DiClemente Contractors, Inc. DiClemente Contractors, Inc. Gail Maiello, President	1515 10th Street, Fort Lee, NJ 07024 1515 10th Street, Fort Lee, NJ 07024	12/27/2020
Discovery Floor Covering LLC Segundo Gallegos, Owner Arianna Rengito Miranda, Owner	658 Pennsylvania Ave., Apt. 4, Elizabeth, NJ 07201 528 Linden Ave, Suite 2, Elizabeth, NJ 07202 658 Pennsylvania Ave, Apt 4, Elizabeth, NJ 07201	02/05/2021
Duke Electric LLC Duke Electric LLC Craig Dutka, Member Eileen Dutka, Member	600 Rt 33 West, Millstone, NJ 08535 17 Old Church Road, Monroe Township, NJ 08831-0883 17 Old Church Road, Monroe Township, NJ 08831-0883	05/02/2021

CONTRACTORS AND SUBCONTRACTORS**ADDRESS****EXPIRATION DATE**

EDM Contracting, Inc John Makris, Jr., President	270 Crescent Place, Yonkers, NY 10704 270 Crescent Place, Yonkers, NY 10704	10/01/2020
EDP Painting Company Edward Del Priore, Principal	7 Wilson Avenue West, East Hanover, NJ 07936 7 Wilson Avenue West, East Hanover, NJ 07936	03/26/2021
Efficient Electric LLC Efficient Electric LLC Malachi Velez, Member	c/o Malachi Velez, 6 Hampton Court, Jersey City, NJ 07302 6 Hampton Court, Jersey City, NJ 07302	02/05/2021
Elite Demolition, LLC Stephen DiFilippi, Owner	120 Springbrook Trail, Sparta, NJ 07871 120 Springbrook Trail, Sparta, NJ 07871	04/10/2020
Elite Terrazzo Flooring, Inc. Christopher Picinic, Owner	185 Fifth Ave., Paterson, NJ 07524 164 President Blvd, Washington Township, NJ 07676	10/18/2019
Empire Construction Louis Malfitano, Owner	560 Mountain Ave, North Caldwell, NJ 07006 560 Mountain Ave, North Caldwell, NJ 07006	09/06/2020
Excellent Fence Matt Periera, President	35 Center Avenue, Leonardo, NJ 07737 35 Center Avenue, Leonardo, NJ 07737	02/28/2022
Fine Wall Corporation Fine Wall Corporation Mrudula Shah, President Umakant N. Shah, Vice-President Ronak Shah, Member	1404 Oak Tree Road, Suite 204, Iselin, NJ 08830 10 Boxwood Court, Edison, NJ 08820 10 Boxwood Court, Edison, NJ 08820 10 Boxwood Court, Edison, NJ 08820	02/28/2022
Gen II Contracting Co. Inc. Jaimie-Lyn Knight, President	395 A Millstone Road, Clarksburg, NJ 08510 395 Millstone Road, Clarksburg, NJ 08510	11/20/2019
GKR Construction Corp Richard Brown, Owner	471 Beach Rd., Staten Island, NY 10312 471 Beach Road, Staten Island, NY 10312	02/28/2022
GSS Industries, LLC Gary Smith, President	P.O Box 625, Farmingdale, NJ 07727 1001 Cedar Lane, Brielle, NJ 08730	09/23/2021
Hernandez Drywall Construction, Inc. Oscar Hernandez, President	421 N. Warrick Road, Magnolia, NJ 08049 421 N. warrick Road, Magnolia, NJ 08049	09/24/2020
High Mountain Construction, Inc.	296 Oakwood Avenue, North Haledon, NJ 07508	04/09/2020
Infinity Flooring Infinity Performance Inc. George Atkinson, President	7002 N. Park Ave., Indianapolis, IN 46220 6735 N. Meridian St., Indianapolis, IN 46260	01/08/2021
J G Roofing, LLC Manuel Chaguan, Owner	85 Prospect Ave. Apt.1, Irvington, NJ 07111 85 Prospect Ave., Irvington, NJ 07111	04/25/2019
J. MOTA Construction, LLC	1016 Highway 33, Freehold, NJ 07728	11/30/2019
JAJ Construction LLC Stuart Erling, Vice-President Andrew Erling, Manager	3 Little John Road, Morris Plains, NJ 07950 3 Little John Road, Morris Plains, NJ 07950 1017 Jefferson Street, Apt. 302, Hoboken, NJ 07030	03/07/2022
Jamali Developers, LLC Hussain Burhanpurwala, Member	238 Fresh Ponds Road, Suite 100, Monroe, NJ 08816 553 Marc Drive, North Brunswick, NJ 08902	03/26/2020
JB Contracting, Inc. Stanley Kapusta, President William Allan Crayne, Partner	12 Commodore Drive, Lake Hopatcong, NJ 07849 12 Commodore Drive, Lake Hopatcong, NJ 07849 178 Espanong Road, Lake Hopatcong, NJ 07849	05/17/2020
Jersey Heavy Drywall Ruben Gonzalez, Owner	107 Jefferson Street, Passaic, NJ 07055 107 Jefferson Street, Passaic, NJ 07055	07/04/2020

CONTRACTORS AND SUBCONTRACTORS**ADDRESS****EXPIRATION DATE**

Jerzee Container Corp. SUSPENDED PENDING DEBARMENT Thomas Whelan, President Jon Whelan, Vice-President Joseph Filoon Jr, Manager	123 Bartlett Avenue, West Creek, NJ 08092 PO Box 155, Spring Lake, NJ 07762 48 8th Avenue, New York, NY 10014 195 Lakeshore Dr, Manahawkin, NJ 08050	SUSPENDED
Jesus Aparicio-Santos, LLC Jesus Aparicio-Santos, Owner	26 Sunset Street, South River, NJ 08882 26 Sunset Street, South River, NJ 08882	05/14/2020
Joe Antonaccio Electric Joseph Antonaccio, President	167 2nd St., Keyport, NJ 07735 167 2nd St., Keyport, NJ 07735	06/07/2019
John Jackson Masonry & Construction John Jackson, CEO	1133 W. America Rd., Camden, NJ 08104 1771 Norris St., Camden, NJ 08101	09/03/2021
Johnson Tree Transplanting LLC Nathan Johnson, Owner Jessica Johnson, Member	1340 LeJack Circle, Forest, VA 24551 5352 Lake Road, Newfield, NJ 08344 5352 Lake Road, Newfield, NJ 08344	07/14/2019
KBD Construction LLC KBD Construction LLC Dusan Budinoski, President Kalinka Budinoski, Owner	118 B Donor Avenue, Elmwood Park, NJ 07407 118 B Donor Avenue, Elmwood Park, NJ 07407 118 B Donor Avenue, Elmwood Park, NJ 07407	07/08/2021
Kosakowski Plumbing & Heating Inc. Edward Kosakowski, Owner	27 Center Avenue, Morristown, NJ 07960 27 Center Avenue, Morristown, NJ 07960	07/12/2020
L & N General Contractors LLC Sammie Nelson, Member	529 Forest Court, Williamstown, NJ 08094 529 Forest Ct., Williamstown, NJ 08094	08/13/2021
Lab Construction Inc. Lab Construction Inc. Lee Barnes, President	607 Jackson Road, Williamstown, NJ 08094 607 Jackson Road, Williamstown, NJ 08094	06/14/2020
LCC CONSTRUCTION LIMITED LIABILITY COMPANY LCC CONSTRUCTION, LLC Liliane Costa, Owner	27 Clayton Ave., Monroe, NJ 08831 27 Clayton Ave, Monroe, NJ 08831	09/06/2021
Low Bid, Inc. George McNulty, President	125 East Broadway, Suite 507, Long Beach, NY 11561 125 East Broadway, Suite 507, Long Beach, NY 11561	08/18/2019
M.A.C. Installation LLC Iberico Goncalves, Owner	305 10th Ave, Roselle, NJ 07203 305 E. 10th Ave, Roselle, NJ 07203	07/05/2021
Ma Na Lu Transportation Corporation Blanca Segarra, President	799 Kearny Avenue, Apt #1, Kearny, NJ 07032 799 Kearny Ave., Apt 1, Kearny, NJ 07032	06/07/2019
Manny Pereira Contracting Manny Periera, President	PO Box 746, Waretown, NJ 08758 P.O. Box 545, Waretown, NJ 08758	02/24/2022
Manto Mechanical Mantas Ambrazavicius, Owner	74 Morton Street, Bridgewater, NJ 08807 74 Morton Street, Bridgewater, NJ 08807	11/18/2021
Marrero Glass and Metal Inc Jaime Marrero, President Maddalena Marrero, Treasurer	4569 Tacony Street, Philadelphia, PA 19124 60 Falcon Drive, Chalfont, PA 18914 60 Falcon Drive, Chalfont, PA 18914	09/16/2021
Matos Construction, LLC Wagner Matos Nimali Matos, Owner Wagner Matos, Owner	77 Williamson Court, Bridgewater, NJ 08807 77 Williamson Court, Bridgewater, NJ 08807 77 Williamson Court, Bridgewater, NJ 08807	01/12/2020
Matrix Management Const. LLC Kenneth Hicks, Owner	2 New Castle Lane, Willingboro, NJ 08046 2 New Castle Lane, Willingboro, NJ 08046	11/28/2020

CONTRACTORS AND SUBCONTRACTORS**ADDRESS****EXPIRATION DATE**

McArthur Park, Inc./ dba Bleacherman Louis R. McArthur Jr., Owner / Officer	105 Mill Street, Corinth, NY 12822 13 Luzerne Place, Hadley, NY 12835	11/01/2019
McGarrigle's Carpet, LLC David McGarrigle, Owner	1500 Carlene Street, Langhorne, PA 19047 1500 Carlene St., Langhorne, PA 19047	07/05/2020
Mirror and Glass Depot LLC Sandra Agudelo, Owner	8555 Tonnelle Avenue, Ste-202, North Bergen, NJ 07047 30 Madison Street, East Rutherford, NJ 07073	05/02/2021
MNC General Contracting Inc. Maria Abreu, President	PO Box 503, Oakhurst, NJ 07755 2 Beach Haven Way, Waretown, NJ 08758	01/02/2020
Mosner Custom Building same Tim Mosner, Owner	738 Adeline St., Trenton, NJ 08611 2 Waltham Ct, Hamilton, NJ 08690	02/28/2022
NJA Services LLC Boguslaw Rzadkowski, Owner	60 Palisade Ave., Suite103, Garfield, NJ 07026 300 Mount Prospect Ave, Clifton, NJ 07012	11/13/2021
On-Site Contractors NJ, LLC Judy Fumero, Member	230 Locust Ave., Garwood, NJ 07090 230 Locust Avenue, Garwood, NJ 07027	02/28/2022
OTS-NJ, LLC OTS of New Jersey, LLC James T. O'Connor, Managing Member	21 Traxler Street, Butler, OH 44822 707 Main Street, Avon-by-the-Sea, NJ 07717	07/04/2019
Paint-Pro, Inc. George Demetriades, President	P.O. Box 1288, East Windsor, NJ 08520 125 Heritage St., Robbinsville, NJ 08691	08/21/2020
Palazzo Fence Co Troy Palazzo, Owner	96 Taylor Dr, Levittown, PA 19054 96 Taylor Dr, Levittown, PA 19054	06/26/2019
Patrick Concrete Constructors Inc. John Bell, President	2455 State Route 21, Canandaigua, NY 14424 2455 State Route 21, Canandaigua, NY 14424	06/13/2020
Paul Kochiss, LLC Paul Kochiss, Managing Member	41 Little Punkup Rd, Oxford, CT 06478 41 Little Punkup Rd, Oxford, CT 06478	07/31/2021
PFC Services LLC Michael Alexeev, President	174 Lighthouse Cove Loop, Carolina Shores, NC 28467 174 Lighthouse Cove Loop, Carolina Shores, NC 28467	11/18/2021
Pin Tribal Construction, LLC Mark W. Holmes Sr., President	50 Drift Avenue, Lawrence, NJ 08648 50 Drift Avenue, Lawrence, NJ 08648	01/29/2021
PL&J Construction Corp. Luis Palaguachi, Owner	73 Chestnut St., West Orange, NJ 07052 73 Chestnut Street, West Orange, NJ 07052	11/28/2020
Premier Builders, Inc. Christopher Escher, President Donna Escher, Secretary	1015 Big Oak Road, Yardley, PA 19067 1015 Big Oak Road, Yardley, PA 19067 1015 Big Oak Road, Yardley, PA 19067	09/24/2021
PSM Rojas Construction, LLC Mikey Rojas, Operating Agent	161 E. 16th St, Paterson, NJ 07524 161 East 16th St., Paterson, NJ 07524	12/06/2019
Quality Plus Builders, Inc. Quality Plus Builders, Inc. Laurie M. Smith, Vice-President Gerry G. Smith, President	PO Box 1040, Weirsdale, FL 32195 16320 SE 162nd Ct., Weirsdale, FL 32195 16320 SE 162nd Ct., Weirsdale, FL 32195	01/26/2020
R Edge Erector Co Inc R Edge Erector Co Inc Robert Edge, President	PO Box 573, Pinnacle, NC 27043 607 S. Main St, Kin g, NC 27043	12/11/2021
Remcon Enterprises LLC Joshua Jackson, President Jon Warbeck, Vice-President	25 Pine Street, Suite 9, Rockaway, NJ 07866 4 Lynn Dr., Andover, NJ 07821 680 Pine Brook Road, Lincoln Park, NJ 07035	02/12/2020

CONTRACTORS AND SUBCONTRACTORS**ADDRESS****EXPIRATION DATE**

Rian Seeman Rian Seeman, Owner	12433 Pineneddle Drive, Indianapolis, IN 46236 12433 Pineneddle Drive, Indianapolis, IN 46236	03/26/2021
Richard Werley Richard Werley, Owner	601 Poplar St., Catasauqua, PA 18045 601 Poplar St., Catasauqua, PA 18032	07/31/2021
Ricky Plumbing LLC Ricky Plumbing LLC Enrique Trabal, Managing Member	1792 Margarets Walk Road, Fleming Island, FL 32033 1792 Margarets Walk Road, Fleming Island, FL 32003	09/17/2020
Rink Systems, Inc. Stacey Overgaard, President Marlene Overgaard, Owner Steve Overgaard, Vice-President	1103 Hershey Street, Albert Lea, MN 56007 410 Hammer Road, Albert Lea, MN 56007 1713 Hale Drive, Albert Lea, MN 56007 3033 Bridge Avenue, Albert Lea, MN 56007	08/26/2021
Robert Foss Electric, LLC Caroline Foss, Owner Robert Foss, Vice-President	1084 Bethlehem Pike, Montgomeryville, PA 18936 1344 Meadow Lane, Perkasie, PA 18944 1344 Meadow Lane, Perkasie, PA 18944	12/27/2019
RW Assembly & Install LLC Richard Weling, Managing Member	110 Stevens Avenue, Cedar Grove, NJ 07009 110 Stevens Avenue, Cedar Grove, NJ 07009	07/12/2020
S&J Floor Covering Shawn Dougherty, Owner	10 Ealey St, Glassboro, NJ 08028 10 Ealey Street, Glassboro, NJ 08028	04/23/2021
S. Moyer Enterprises Steve Moyer, Owner	6271 W. Basalt Cove, West Jordan, UT 84081 6271 W. Basalt Cove, West Jordan, UT 84081	03/26/2021
SCA Technologies, LLC Scott Ahart, Member	3579 Route 46, Apt 52b, Parsippany, NJ 07054 3579 Route 46, Apt 52 b, Parsippany, NJ 07054	03/26/2021
SDT Transport LLC Stephen Tripodi, Owner	12 Clifford Rd, Wanaque, NJ 07465 12 Clifford Rd, Wanaque, NJ 07465	08/25/2019
Somerset Electrical Services Ralph Epright, Owner	48 Junction Rd., Flemington, NJ 08822 48 Junction Rd., Flemington, NJ 08822	02/05/2021
Southern State Contracting Services LLC Joseph F. Gleason Jr., President	51 Pine Dr S., Brick, NJ 08723 51 Pine Dr. S, Brick, NJ 08724	06/26/2019
Souza Development Elias Souza, Owner Luiz Costa, Vice-President	1144 Dana Ave, Bensalem, PA 19020 1144 Dana Ave, Bensalem, PA 19020 500 Myrtle Ave., Horsham, PA 19044	02/15/2022
Spectrum of Floors, LLC Donna DeBenedetto, President William Koch, Vice-President	3700 William Penn Highway, Easton, PA 18045 65 Crest Blvd., Easton, PA 18045 225 Applewood Dr., Easton, PA 18045	07/31/2021
Squillace Steel Fabricators, LLC Squillace Steel Fabricators, LLC Rachel Squillace, Manager Richard Squillace, President	771 Amsterdam Avenue, Roselle, NJ 07203 771 Amsterdam Ave., Roselle Park, NJ 07203 771 Amsterdam Avenue, Roselle Park, NJ 07203	05/31/2019
Steven Keares, Inc. Keares Electrical Contractor, Inc. Steven P. Keares, CEO	633 Jeffers Circle, Exton, PA 19341 211 Downing Road, Downingtown, PA 19335	02/02/2020
Steven Trucking Corp Fabian Martinez, President	47 Railroad Ave, Netcong, NJ 07857 28 Bowlby Street, Dover, NJ 07801	10/17/2019
TDJ METAL PANEL INSTALLERS LLC Trey Johnson, Member Troy Johnson, Managing Member	913 East 7th Street, Plainfield, NJ 07062 913 East 7th Street, Plainfield, NJ 07062 913 East 7th Street, Plainfield, NJ 07062	01/30/2022
Team Revolution LLC dba Superior Landscaping William Hattrich, Owner	6 Warren Dr. Unit D, Vernon, NJ 07462 1 Zinnia Dr., Glenwood, NJ 07462	05/30/2021

CONTRACTORS AND SUBCONTRACTORS**ADDRESS****EXPIRATION DATE**

Timster Trucking Inc. SUSPENDED PENDING DEBARMENT Joseph Filoon Jr., President	128 Bartlett Avenue, West Creek, NJ 08092 165 Oak Avenue, West Creek, NJ 08092	SUSPENDED
Total Flooring LLC Christopher Lockman, President	14 Kennedy Drive, Flanders, NJ 07836 14 Kennedy Drive, Flanders, NJ 07836	01/06/2022
Tropical Landscaping LLC Marcos De Oliveira, Managing Member	3 Christopher Street, Sayerville, NJ 08872 3 Christopher Street, Sayerville, NJ 08872	10/23/2020
Turfscapes LLC Jeffrey Grize, Owner	PO Box 950, Williamstown, NJ 08094 3477 S. Blackhorse Pike, Williamstown, NJ 08094	08/22/2019
Ultimate Roofing, LLC Paige Moriarty, Member	1013 Grandview Avenue, Union, NJ 07083 1013 Grandview Avenue, Union, NJ 07083	12/12/2019
Ultra Construction LLC Ultra Construction Limited Liability Company Suzanne Zimmermann, Member Christopher Zimmermann, Manager	PO Box 1843, Toms River, NJ 08755 2303 Owen Court, Toms River, NJ 08755 2303 Owen Court, Toms River, NJ 08755	12/14/2020
Unique Contractors Unique Contractors Juan Garro, Owner	3606 Academy Road, Philadelphia, PA 19154 3606 Academy Road, Philadelphia, PA 19154	01/11/2020
Vision Construction Group, Inc. Vision Construction Group, Inc. Andrew Bello, President Gerard Chiusolo, Member	10 Liberty Street, Edison, NJ 08837 2341 Achilles Street, Port Charlotte, FL 33980 674 Edgewood Place, North Brunswick, NJ 08902	08/27/2020
Warren Contractors LLC Joseph Zawada, Manager	85 Tracey Station Road, Manalapan, NJ 07726 211 Brewers Bridge Road, Jackson, NJ 08527	06/14/2020
Weather Tight Foam Insulation, Inc. Mohamed A. Abdou, Owner / Officer Tariq Adma, Owner / Officer	1156 Livingston Avenue, North Brunswick, NJ 08902 1156 Livingston Avenue, N. Brunswick, NJ 08902 222 Sanford Street, New Brunswick, NJ 08901	04/10/2020
Whittendale Excavating Corp. Whittendale Excavating Corp. Timothy Whittendale, Vice-President Roland J. Whittendale, Vice-President Diane Whittendale, President Ashley Whittendale, Partner Matthew Whittendale, Partner	1490 Glen Avenue, Moorestown, NJ 08057 201 Cambridge Drive, Cinnaminson, NJ 08077 309 Fairview Avenue, Moorestown, NJ 08057 1490 Glen Ave., Moorestown, NJ 08057 737 Haverford Avenue, Maple Shade, NJ 08052 112 Homestead Court, Moorestown, NJ 08057	05/07/2021
Woerner Plumbing & Heating Joseph Woerner, Owner	3 Coppermine Village, Flemington, NJ 08822 3 Coppermine Village, Flemington, NJ	04/23/2021
Woodworkers Corporation Renata Moro, President	105 Rome Street, Newark, NJ 07105 305 E. 10th Ave, Roselle, NJ 07203	07/05/2021
YP Construction Inc. Yun Ping Zheng, President	1582 Route 27, Edison, NJ 08817 1582 Route 27, Edison, NJ 08817	06/29/2020
ZJ's Enterprises Corporation Toney Ricketts, Owner	46 Bryant Street, Newark, NJ 07104 46 Bryant St., Newark, NJ 07104	03/19/2022

SUSPENDED PENDING DEBARMENT:

CONTRACTORS AND SUBCONTRACTORS

ADDRESS

SUSPEND DATE

Jerzee Container Corp.

Jon Whelan, Vice-President
Joseph Filoon Jr, Manager
Thomas Whelan, President

123 Bartlett Avenue, West Creek, NJ 08092

48 8th Avenue, New York, NY 10014
195 Lakeshore Dr, Manahawkin, NJ 08050
PO Box 155, Spring Lake, NJ 07762

09/23/2016

Timster Trucking Inc.

Joseph Filoon Jr., President

128 Bartlett Avenue, West Creek, NJ 08092

165 Oak Avenue, West Creek, NJ 08092

09/23/2016

LIST OF DEBARRED OWNERS/OFFICERS

4/4/2019

<u>Owners/ Officers</u>	<u>Address</u>	<u>Company Name</u>
Mohamed A. Abdou, Owner / Officer	1156 Livingston Avenue, N. Brunswick, NJ 08902	Weather Tight Foam Insulation, Inc.
Maria Abreu, President	2 Beach Haven Way, Waretown, NJ 08758	MNC General Contracting Inc.
Denise Ackerson, President	182 Van Dyke Road, Hopewell, NJ 08525	Ackerson Contracting Inc.
Tariq Adma, Owner / Officer	222 Sanford Street, New Brunswick, NJ 08901	Weather Tight Foam Insulation, Inc.
Sandra Agudelo, Owner	30 Madison Street, East Rutherford, NJ 07073	Mirror and Glass Depot LLC
Scott Ahart, Member	3579 Route 46, Apt 52 b, Parsippany, NJ 07054	SCA Technologies, LLC
Michael Alexeev, President	174 Lighthouse Cove Loop, Carolina Shores, NC 28467	PFC Services LLC
Clifford Alphonso, Owner	84 Tecumseh Trail, Medford Lakes, NJ 08055	Clifford Pool Tile & Coping LLC
Elvin Alvarez, Owner	907 Madison Avenue, Elizabeth, NJ 07201	Alvarez Painting, LLC
Mantas Ambrazavicius, Owner	74 Morton Street, Bridgewater, NJ 08807	Manto Mechanical
Claudy Antoine, Owner	568 William St., East Orange, NJ 07017	C C & C General Contractors
Joseph Antonaccio, President	167 2nd St., Keyport, NJ 07735	Joe Antonaccio Electric
Jesus Aparicio-Santos, Owner	26 Sunset Street, South River, NJ 08882	Jesus Aparicio-Santos, LLC
Alexander Arcadia, Principal	136 Ocean Avenue, Monmouth Beach, NJ 07750-0775	Aracon Mechanical LLC
George Atkinson, President	6735 N. Meridian St., Indianapolis, IN 46260	Infinity Flooring Infinity Performance Inc. CBC Enterprises LLC
Leo Baiocco, President	2383 Atco Avenue, Atco, NJ 08004	Lab Construction Inc. Lab Construction Inc.
Lee Barnes, President	607 Jackson Road, Williamstown, NJ 08094	Patrick Concrete Constructors Inc.
John Bell, President	2455 State Route 21, Canandaigua, NY 14424	Vision Construction Group, Inc. Vision Construction Group, Inc.
Andrew Bello, President	2341 Achilles Street, Port Charlotte, FL 33980	GKR Construction Corp
Richard Brown, Owner	471 Beach Road, Staten Island, NY 10312	KBD Construction LLC KBD Construction LLC KBD Construction LLC KBD Construction LLC
Dusan Budinoski, President	118 B Donor Avenue, Elmwood Park, NJ 07407	Jamali Developers, LLC
Kalinka Budinoski, Owner	118 B Donor Avenue, Elmwood Park, NJ 07407	CAM Contractors Inc.
Hussain Burhanpurwala, Member	553 Marc Drive, North Brunswick, NJ 08902	DCI Signs & Awnings Inc.
Joseph Caravella, Manager	179-15 Route 46, Rockaway, NJ 07866	J G Roofing, LLC
Danny Castillo, President	645 Bancroft Road, Brick, NJ 08724	Vision Construction Group, Inc. Vision Construction Group, Inc.
Manuel Chaguan, Owner	85 Prospect Ave., Irvington, NJ 07111	Cleworth & Son, Inc.
Gerard Chiusolo, Member	674 Edgewood Place, North Brunswick, NJ 08902	Cleworth & Son, Inc.
Dorothy Cleworth, President	3150 Highway 27, Kendall Park, NJ 08824	Confortini Plumbing & Heating, LLC
Ernest Cleworth, Vice-President	5 Burnham Court, Kendall Park, NJ 08824	Confortini Plumbing & Heating, LLC
Anthony Confortini, Owner	41 Bunnvale Road, Clifton, NJ 07830	LCC CONSTRUCTION LIMITED LIABILITY COMPANY
Andrew Confortini, Vice-President	491 West County Drive, Somerville, NJ 08876	LCC CONSTRUCTION, LLC
Liliane Costa, Owner	27 Clayton Ave, Monroe, NJ 08831	Souza Development
Luiz Costa, Vice-President	500 Myrtle Ave., Horsham, PA 19044	JB Contracting, Inc.
William Allan Crayne, Partner	178 Espanong Road, Lake Hopatcong, NJ 07849	Cam Flooring Installations LLC
Jose Fernandes Da Silva, Owner	26 Washington St., Long Branch, NJ 07718	Dawkins Plumbing & Construction LLC.
Michael Dawkins, Manager	1057 Haddon Avenue, Camden, NJ 08103	Tropical Landscaping LLC
Marcos De Oliveira, Managing Member	3 Christopher Street, Sayerville, NJ 08872	Spectrum of Floors, LLC
Donna DeBenedetto, President	65 Crest Blvd., Easton, PA 18045	EDP Painting Company
Edward Del Priore, Principal	7 Wilson Avenue West, East Hanover, NJ 07936	Paint-Pro, Inc.
George Demetriades, President	125 Heritage St., Robbinsville, NJ 08691	Elite Demolition, LLC
Stephen DiFilippi, Owner	120 Springbrook Trail, Sparta, NJ 07871	S&J Floor Covering
Shawn Dougherty, Owner	10 Ealey Street, Glassboro, NJ 08028	All Jersey Fence Co.
Agostino Ducato, Vice-President	223 Spring Valley Road, Paramus, NJ 07652	

<u>Owners/ Officers</u>	<u>Address</u>	<u>Company Name</u>
Eileen Dutka, Member	17 Old Church Road, Monroe Township, NJ 08831-0883	Duke Electric LLC
Craig Dutka, Member	17 Old Church Road, Monroe Township, NJ 08831-0883	Duke Electric LLC
Robert Edge, President	607 S. Main St, Kin g, NC 27043	Duke Electric LLC
Ralph Epright, Owner	48 Junction Rd., Flemington, NJ 08822	R Edge Erector Co Inc
Andrew Erling, Manager	1017 Jefferson Street, Apt. 302, Hoboken, NJ 07030	R Edge Erector Co Inc
Stuart Erling, Vice-President	3 Little John Road, Morris Plains, NJ 07950	Somerset Electrical Services
Christopher Escher, President	1015 Big Oak Road, Yardley, PA 19067	JAJ Construction LLC
Donna Escher, Secretary	1015 Big Oak Road, Yardley, PA 19067	JAJ Construction LLC
Adam Fernando, Owner	1546 Wooded Acres Drive, Stroudsburg, PA 18360	Premier Builders, Inc.
Joseph Filoon Jr, Manager	195 Lakeshore Dr, Manahawkin, NJ 08050	Premier Builders, Inc.
Joseph Filoon Jr., President	165 Oak Avenue, West Creek, NJ 08092	ANV Transport
Theodore Fiore Jr, Owner	9 Silver Spring Court, East Hanover, NJ 07936-2529	Jerzee Container Corp.
Robert Foss, Vice-President	1344 Meadow Lane, Perkasio, PA 18944	SUSPENDED PENDING DEBARMENT
Caroline Foss, Owner	1344 Meadow Lane, Perkasio, PA 18944	Timster Trucking Inc.
Judy Fumero, Member	230 Locust Avenue, Garwood, NJ 07027	SUSPENDED PENDING DEBARMENT
Segundo Gallegos, Owner	528 Linden Ave, Suite 2, Elizabeth, NJ 07202	All American Demolition & Dismantling, LLC
Michelle Gamache-Caravella, President	179-15 Route 46, Suite 135, Rockaway, NJ 07866	All Merican Demolition & Dismantling LLC
Juan Garro, Owner	3606 Academy Road, Philadelphia, PA 19154	Robert Foss Electric, LLC
Joseph F. Gleason Jr., President	51 Pine Dr. S, Brick, NJ 08724	Robert Foss Electric, LLC
Iberico Goncalves, Owner	305 E. 10th Ave, Roselle, NJ 07203	On-Site Contractors NJ, LLC
Ruben Gonzalez, Owner	107 Jefferson Street, Passaic, NJ 07055	Discovery Floor Covering LLC
Jeffrey Grize, Owner	3477 S. Blackhorse Pike, Williamstown, NJ 08094	CAM Contractors Inc.
William Hattrich, Owner	1 Zinnia Dr., Glenwood, NJ 07462	Unique Contractors
Oscar Hernandez, President	421 N. warrick Road, Magnolia, NJ 08049	Unique Contractors
Kenneth Hicks, Owner	2 New CAstle Lane, Willingboro, NJ 08046	Southern State Contracting Services LLC
Mark W. Holmes Sr., President	50 Drift Avenue, Lawrence, NJ 08648	M.A.C. Installation LLC
John Hunsecker, Vice-President	72 Charlotte Drive, Churchville, PA 18966	Jersey Heavy Drywall
Joshua Jackson, President	4 Lynn Dr., Andover, NJ 07821	Turfscapes LLC
John Jackson, CEO	1771 Norris St., Camden, NJ 08101	Team Revolution LLC dba Superior Landscaping
Dan Jarrell, Owner / Officer	336 McClelland Ave, Glassboro, NJ 08028	Hernandez Drywall Construction, Inc.
Trey Johnson, Member	913 East 7th Street, Plainfield, NJ 07062	Matrix Management Const. LLC
Nathan Johnson, Owner	5352 Lake Road, Newfield, NJ 08344	Pin Tribal Construction, LLC
Troy Johnson, Managing Member	913 East 7th Street, Plainfield, NJ 07062	Bravo General Contractors Inc
Jessica Johnson, Member	5352 Lake Road, Newfield, NJ 08344	Remcon Enterprises LLC
Stanley Kapusta, President	12 Commodore Drive, Lake Hopatcong, NJ 07849	John Jackson Masonry & Construction
Steven P. Keares, CEO	211 Downing Road, Downingtown, PA 19335	Dan's Tile and Marble LLC
Jaimie-Lyn Knight, President	395 Millstone Road, Clarksburg, NJ 08510	Dan's Tile and Marble LLC
William Koch, Vice-President	225 Applewood Dr., Easton, PA 18045	TDJ METAL PANEL INSTALLERS LLC
Paul Kochiss, Managing Member	41 Little Punkup Rd, Oxford, CT 06478	Johnson Tree Transplanting LLC
Lawarence Koos, Owner	1391 White Oak Botton Rd, Tom River, NJ 08755	TDJ METAL PANEL INSTALLERS LLC
Edward Kosakowski, Owner	27 Center Avenue, Morristown, NJ 07960	Johnson Tree Transplanting LLC
Christopher Lockman, President	14 Kennedy Drive, Flanders, NJ 07836	JB Contracting, Inc.
Gail Maiello, President	1515 10th Street, Fort Lee, NJ 07024	Steven Keares, Inc.
John Makris, Jr., President	270 Crescent Place, Yonkers, NY 10704	Keares Electrical Contractor, Inc.
Louis Malfitano, Owner	560 Mountain Ave, North Caldwell, NJ 07006	Gen II Contracting Co. Inc.
		Spectrum of Floors, LLC
		Paul Kochiss, LLC
		Anchor Marine of Toms River
		Kosakowski Plumbing & Heating Inc.
		Total Flooring LLC
		DiClemente Contractors, Inc.
		DiClemente Contractors, Inc.
		EDM Contracting, Inc
		Empire Construction

<u>Owners/ Officers</u>	<u>Address</u>	<u>Company Name</u>
Kevin F. Mandel, Owner	186 Sunshine Drive, Piscataway, NJ 08854	Cougar Power and Electric, LLC
Vincent Manganiello, Managing Member	2 Perona Road, Andover, NJ 07821	DAS Industrial, LLC DAS Industrial Limited Liability Company
Maddalena Marrero, Treasurer	60 Falcon Drive, Chalfont, PA 18914	Marrero Glass and Metal Inc
Jaime Marrero, President	60 Falcon Drive, Chalfont, PA 18914	Marrero Glass and Metal Inc
Fabian Martinez, President	28 Bowlby Street, Dover, NJ 07801	Steven Trucking Corp
Wagner Matos, Owner	77 Williamson Court, Bridgewater, NJ 08807	Matos Construction, LLC Wagner Matos
Nimali Matos, Owner	77 Williamson Court, Bridgewater, NJ 08807	Matos Construction, LLC Wagner Matos
Louis R. McArthur Jr., Owner / Officer	13 Luzerne Place, Hadley, NY 12835	McArthur Park, Inc./ dba Bleacherman
David McGarrigle, Owner	1500 Carlene St., Langhorne, PA 19047	McGarrigle's Carpet, LLC
George McNulty, President	125 East Broadway, Suite 507, Long Beach, NY 11561	Low Bid, Inc.
Paige Moriarty, Member	1013 Grandview Avenue, Union, NJ 07083	Ultimate Roofing, LLC
Renata Moro, President	305 E. 10th Ave, Roselle, NJ 07203	Woodworkers Corporation
Tim Mosner, Owner	2 Waltham Ct, Hamilton, NJ 08690	Mosner Custom Building same
Steve Moyer, Owner	6271 W. Basalt Cove, West Jordan, UT 84081	S. Moyer Enterprises
Sammie Nelson, Member	529 Forest Ct., Williamstown, NJ 08094	L & N General Contractors LLC
Timothy J. Noon, Owner	698 Northstream Drive, Toms River, NJ 08753	Beach Coast Builders LLC TJN Development LLC
James T. O'Connor, Managing Member	707 Main Street, Avon-by-the-Sea, NJ 07717	OTS-NJ, LLC OTS of New Jersey, LLC
Marlene Overgaard, Owner	1713 Hale Drive, Albert Lea, MN 56007	Rink Systems, Inc.
Stacey Overgaard, President	410 Hammer Road, Albert Lea, MN 56007	Rink Systems, Inc.
Steve Overgaard, Vice-President	3033 Bridge Avenue, Albert Lea, MN 56007	Rink Systems, Inc.
Louis Pacelli, Manager	16 Darlington Drive, Wayne, NJ 07470	Build Rite LLC
Luis Palaguachi, Owner	73 Chestnut Street, West Orange, NJ 07052	PL&J Construction Corp.
Troy Palazzo, Owner	96 Taylor Dr, Levittown, PA 19054	Palazzo Fence Co
Brian Parker, Owner	115 Ardmore Avenue, Haddonfield, NJ 08033	Brian Parker, LLC
Matt Periera, President	35 Center Avenue, Leonardo, NJ 07737	Excellent Fence
Manny Periera, President	P.O. Box 545, Waretown, NJ 08758	Manny Pereira Contracting
Adelino Perin, President	12 Valley Place, Chester, NJ 07930	A P Roofing & Siding, LLC A. Perin Roofing & Siding, LLC
Christopher Picinic, Owner	164 President Blvd, Washington Township, NJ 07676	Elite Terrazzo Flooring, Inc.
Arianna Rengito Miranda, Owner	658 Pennsylvania Ave, Apt 4, Elizabeth, NJ 07201	Discovery Floor Covering LLC
Toney Ricketts, Owner	46 Bryant St., Newark, NJ 07104	ZJ's Enterprises Corporation
Mikey Rojas, Operating Agent	161 East 16th St., Paterson, NJ 07524	PSM Rojas Construction, LLC
Boguslaw Rzadkowski, Owner	300 Mount Prospect Ave, Clifton, NJ 07012	NJA Services LLC
Rian Seeman, Owner	12433 Pineneddle Drive, Indianapolis, IN 46236	Rian Seeman
Dan Seeman, Owner	1363 North Winchester Dr., Greenfield, IN 46140	Dan Seeman
Blanca Segarra, President	799 Kearny Ave., Apt 1, Kearny, NJ 07032	Ma Na Lu Transportation Corporation
Mrudula Shah, President	10 Boxwood Court, Edison, NJ 08820	Fine Wall Corporation Fine Wall Corporation
Ronak Shah, Member	10 Boxwood Court, Edison, NJ 08820	Fine Wall Corporation Fine Wall Corporation
Umakant N. Shah, Vice-President	10 Boxwood Court, Edison, NJ 08820	Fine Wall Corporation Fine Wall Corporation
Ihor Shcherbii, Owner	3-C Brynwood gardens, Apt 18, Old Bridge, NJ 08857	Barbos HVAC, LLC
Gerry G. Smith, President	16320 SE 162nd Ct., Weirsdale, FL 32195	Quality Plus Builders, Inc. Quality Plus Builders, Inc.
Gary Smith, President	1001 Cedar Lane, Brielle, NJ 08730	GSS Industries, LLC
Laurie M. Smith, Vice-President	16320 SE 162nd Ct., Weirsdale, FL 32195	Quality Plus Builders, Inc. Quality Plus Builders, Inc.
Elias Souza, Owner	1144 Dana Ave, Bensalem, PA 19020	Souza Development
Rachel Squillace, Manager	771 Amsterdam Ave., Roselle Park, NJ 07203	Squillace Steel Fabricators, LLC Squillace Steel Fabricators, LLC

Owners/ Officers**Address****Company Name**

Richard Squillace, President	771 Amsterdam Avenue, Roselle Park, NJ 07203	Squillace Steel Fabricators, LLC Squillace Steel Fabricators, LLC
Enrique Trabal, Managing Member	1792 Margarets Walk Road, Fleming Island, FL 32003	Ricky Plumbing LLC Ricky Plumbing LLC
Stephen Tripodi, Owner	12 Clifford Rd, Wanaque, NJ 07465	SDT Transport LLC
Malachi Velez, Member	6 Hampton Court, Jersey City, NJ 07302	Efficient Electric LLC Efficient Electric LLC
Charles Viola, President	266 Columbus Avenue, Hasbrouck Heights, NJ 07604	All Jersey Fence Co.
Constantine Vivian, President	86 Christopher Street, Montclair, NJ 07042	Aztech Management, Inc. Aztech Management, Inc.
Jon Warbeck, Vice-President	680 Pine Brook Road, Lincoln Park, NJ 07035	Remcon Enterprises LLC
Richard Weling, Managing Member	110 Stevens Avenue, Cedar Grove, NJ 07009	RW Assembly & Install LLC
Richard Werley, Owner	601 Poplar St., Catasauqua, PA 18032	Richard Werley
Jon Whelan, Vice-President	48 8th Avenue, New York, NY 10014	Jerzee Container Corp. SUSPENDED PENDING DEBARMENT
Thomas Whelan, President	PO Box 155, Spring Lake, NJ 07762	Jerzee Container Corp. SUSPENDED PENDING DEBARMENT
Roland J. Whittendale, Vice-President	309 Fairview Avenue, Moorestown, NJ 08057	Whittendale Excavating Corp. Whittendale Excavating Corp.
Ashley Whittendale, Partner	737 Haverford Avenue, Maple Shade, NJ 08052	Whittendale Excavating Corp. Whittendale Excavating Corp.
Matthew Whittendale, Partner	112 Homestead Court, Moorestown, NJ 08057	Whittendale Excavating Corp. Whittendale Excavating Corp.
Diane Whittendale, President	1490 Glen Ave., Moorestown, NJ 08057	Whittendale Excavating Corp. Whittendale Excavating Corp.
Timothy Whittendale, Vice-President	201 Cambridge Drive, Cinnaminson, NJ 08077	Whittendale Excavating Corp. Whittendale Excavating Corp.
Joseph Woerner, Owner	3 Coppermine Village, Flemington, NJ	Woerner Plumbing & Heating
Susan Yaniero, Owner	848 Bogert Road, River Edge, NJ 07661	Bogert Millwork Company, Inc.
Anthony Yaniero, Vice-President	848 Bogert Road, River Edge, NJ 07661	Bogert Millwork Company, Inc.
Joseph Zawada, Manager	211 Brewers Bridge Road, Jackson, NJ 08527	Warren Contractors LLC
Yun Ping Zheng, President	1582 Route 27, Edison, NJ 08817	YP Construction Inc.
Suzanne Zimmermann, Member	2303 Owen Court, Toms River, NJ 08755	Ultra Construction LLC Ultra Construction Limited Liability Company
Christopher Zimmermann, Manager	2303 Owen Court, Toms River, NJ 08755	Ultra Construction LLC Ultra Construction Limited Liability Company

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS

CONDITIONS SPECIFIC TO THIS PROJECT

The 2018 Bridge Improvement Program in the **County of Union**. The work shall include the various repairs to multiple bridges' substructure and superstructure as indicated within the plan set entitled "Union County 2018 Bridge Improvement Program" and the following specifications. Generally, the various repairs consist of the following spread across forty-one (41) bridges within Union County: concrete spall repair for various deck, underdeck, superstructure and substructure areas; removal and replacement of damaged sidewalk and adjacent curb sections; excavation, removal and replacement of various damaged storm sewer outlets; the rehabilitation and repointing of areas of brick masonry on bridge structures; the reconstruction of a masonry wingwall and adjacent resetting of a bridge parapet; the placement of stone rip rap and the stabilization of embankments. All construction work shall be staged, as all roads shall remain open to traffic during the construction duration.

Low profile equipment shall be necessary in areas where excavation due to the removal and replacement of damaged sewer pipes is in proximity of existing overhead utilities.

The contractor shall coordinate their work with any planned utility relocations as part of the construction and the existing utilities that will remain in their present location. It is the sole responsibility of the Contractor to investigate and use due care when operating in the vicinity of any utility. No additional compensation will be made for utility coordination and any other work involving the existing utilities.

Prior to the start of work, the Contractor shall review the limits of all work with the Resident Engineer.

The time of completion for this project has been set at One Hundred Twenty (120) calendar days from the Notice to Proceed.

It is noted punch-list items will invariably arise. To minimize disruption to its citizens, the County shall require all punch-list items brought to the Contractor's attention, to be rectified within seven (7) calendar days from receipt of said items. If said punch-list items are not resolved to the satisfaction of the Engineer, within the specified time, Liquidated Damages as specified in Section 43 of the General Specifications ('G' sheets of this specification) shall be pursued, commencing on the eighth calendar day.

The County retains the right to increase or decrease any and all quantities up to 25 percent of those estimated, at the unit prices bid.

Certified payroll records shall be produced and submitted on a bi-weekly basis to the County for all personnel involved with this project. The County shall withhold any and all payments until the certified payroll records are received.

SPECIAL PROVISIONS

AUTHORIZATION OF CONTRACT

The Contract is authorized by the provisions of Title 27 of the Revised Statutes of New Jersey and supplements thereto.

SPECIFICATIONS TO BE USED

The 2007 Standard Specifications for Road and Bridge Construction, of the New Jersey Department of Transportation as amended herein will govern the construction of this Project and the execution of the Contract.

General wage determinations issued under Davis-Bacon and related acts, published by US Department of Labor, may be obtained from the Davis-Bacon web site at <http://www.access.gpo.gov/davisbacon/nj.html> under the appropriate county; select the construction type.

Pay the prevailing wage rates determined by the United States Secretary of Labor and the New Jersey Department of Labor. If the prevailing wage rate prescribed for any craft by the United States Secretary of Labor is not the same as the prevailing wage rate prescribed for that craft by the New Jersey Department of Labor, pay the higher rate.

State wage rates may be obtained from the New Jersey Department of Labor & Workforce Development (Telephone: 609-292-2259) or by accessing the Department of Labor & Workforce Development's web site at https://www.nj.gov/labor/wagehour/wagerate/prevailing_wage_determinations.html.

The State wage rates in effect at the time of award are part of this Contract, pursuant to Chapter 150, Laws of 1963 (NJSA 34:11-56.25, et seq.).

If an employee of the Contractor or subcontractor has been paid a rate of wages less than the prevailing wage, the Department may suspend the Work, and declare the Contractor in default.

State wage rates may be obtained from the New Jersey Department of Labor & Workforce Development (Telephone: 609-292-2259) or by accessing the Department of Labor & Workforce Development's web site at https://www.nj.gov/labor/wagehour/wagerate/prevailing_wage_determinations.html. The State wage rates in effect at the time of award are part of this Contract, pursuant to Chapter 150, Laws of 1963 (N.J.S.A. 34:11-56.25 et seq.).

If an employee of the Contractor or subcontractor has been paid a rate of wages less than the prevailing wage, the Department may suspend the Work, and declare the Contractor in default.

The following Wholly State funded project Attachments that are located at the end of these Special Provisions:"

1. State of New Jersey [Equal Employment Opportunity Special Provisions for Construction Contracts](#) Funded by Wholly or partially State Funds.
2. [Payroll Requirements](#) for 100 Percent State Projects.
3. [Americans with Disabilities Act](#) for 100 Percent State Funded Contracts.
4. Small Business Enterprise Utilization Attachment for 100% State Funded Contracts.

GENERAL

Award of contract and subletting will not be permitted to, materials will not be permitted from, and use of equipment will not be permitted that is owned and/or operated by, firms and individuals included in the report of suspensions, debarments and disqualifications of firms and individuals as maintained by the Department of the Treasury, General Services Administration, CN-039, Trenton NJ 08625 (609-633-3990).

Payment for a pay item in the proposal includes all the compensation that will be made for the work of that item as described in the contract documents unless the "basis of payment" clause provides that certain work essential to that item will be paid for under another pay item.

Whenever any section, subsection, subpart or subheading is amended by such terms as changed to, deleted or added it is construed to mean that it amends that section, subsection, subpart or subheading of the 2007 Standard Specifications unless otherwise noted.

Whenever reference to page number is made, it is construed to refer to the 2007 Standard Specifications, as amended herein, unless otherwise noted.

Henceforth in this supplementary specification whenever reference to the State, Commissioner, Department, Engineer or Inspector is made, it is construed to mean the UNION COUNTY ENGINEER.

Whenever reference to Title 27 is made, it is construed to mean Title 40.

Materials or assemblies as specified will be accepted on the basis of certificates of compliance stating that such materials or assemblies fully comply with the requirements of the contract.

Materials or assemblies used on the basis of certificates of compliance may be sampled and tested at any time and if found not to be in conformity with the contract requirements, will be subject to rejection whether in place or not. The Contractor shall require the manufacturer or supplier to furnish three copies of certificates of compliance with each delivery of materials, components and manufactured items that are acceptable by certification. One copy shall be furnished to the Engineer, one copy shall be furnished to the District Office, Bureau of Local Government Services and the Contractor shall retain one copy.

Certificates of compliance shall contain the following information:

1. Project and location to which the material is consigned.
2. Name of the Contractor to which the material is supplied.
3. Kind of material supplied.
4. Quantity of material represented by the certificate.
5. Means of identifying the consignment, such as label marking, seal number, etc.
6. Date and method of shipment.
7. Statement that the material has been tested and found in conformity with the pertinent contract requirements stated in the certificate.
8. Signature of a person having legal authority to bind the supplier.
9. Signature attested to by a Notary Public or other properly authorized person.

Payments relative to materials specified, shall be accepted on the basis of certificates of compliance shall not be made until the Engineer has in his possession an acceptable certificate of compliance.

FOREIGN MATERIALS

The attention of the Contractor is directed to all existing federal and state statutes and regulations that prohibit on any public work the use, by the Contractor or subcontractor, of materials produced or manufactured outside the United States of America. Exceptions to this prohibition, upon the findings of the Engineer, are allowed only where its enforcement would be inconsistent with the public interest or where the material is not produced or manufactured in the United States in sufficient quantities and of a sufficient quality.

If the Engineer finds in the performance of the contract there has been a failure to comply with the provisions relative to foreign materials, he shall make public his findings, and no other contract for the construction of any public work by this contracting agent shall be awarded to such Contractor, or to any partnership, association or corporation with which such Contractor is associated or affiliated, within a period of three years after such finding is made public.

Where the use of foreign material is allowed, such material shall be furnished in accordance with the following requirements:

1. Materials manufactured or produced outside the United States shall be delivered to a location, approved by the Engineer, where they shall be retained until examination can be completed.
2. The Contractor shall arrange, at his expense, any testing which the Engineer feel necessary to ascertain the acceptability of the material.
3. A certificate of compliance shall accompany each lot of foreign material. In addition, certified mill tests reports shall be attached to the certificate of compliance for those materials for which mill test reports are required and shall clearly identify the lot to which they apply. Certificates of compliance shall contain the following information:
 - A. Project to which the material is consigned.
 - B. Name of the Contractor to which the material is supplied.
 - C. Kind of material supplied.
 - D. Quantity of material represented by the certificate.
 - E. Means of identifying the consignment, such as label marking, seal number, etc.
 - F. Date and method of shipment.
 - G. Statement that the material has been tested and found in conformity with the pertinent contract requirements stated in the certificate.
 - H. Signature of a person having legal authority to bind the supplier.
 - I. Signature attested to by a notary public or other properly authorized person.

The following Sections of the Standard Specifications are deleted:

SECTION 102 - BIDDING REQUIREMENTS AND CONDITIONS
SECTION 103 - AWARD AND EXECUTION OF CONTRACT

The above Sections of the Standard Specifications are changed to the requirements of the County of Union in General Specifications attached hereto.

The below Sections of the Standard Specifications have been changed to the requirements of the County of Union as stipulated herein, in the event of conflicts between the below sections and those of Union County, Union County stipulations shall govern.

SECTION 104 - SCOPE OF WORK
SECTION 109 - MEASUREMENT AND PAYMENT

DIVISION 100 - GENERAL PROVISIONS

SECTION 101 - GENERAL INFORMATION

101.03 TERMS

THE FOLLOWING TERMS ARE CHANGED.

Completion

(3) IS CHANGED TO:

3. the Contractor has satisfactorily executed and delivered to the RE all documents, required forms, certifications, and proofs of compliance required by the Contract Documents, it being understood that the satisfactory execution and delivery of documents, certificates, and proofs of compliance is a requirement of the Contract.

Department: Shall be defined as the County of Union.

Resident Engineer (RE) shall be defined as a representative of the County of Union or Engineer.

Pavement Structure. The combination of pavement, base courses, and when specified, a subbase course, placed on a subgrade to support the traffic load and distribute it to the roadbed (see Figure 101-1). These various courses are defined as follows:

1. **Pavement.** One or more layers of specified material of designed thickness at the top of the pavement structure.
2. **Base course.** One or more layers of specified material of designed thickness placed on the subgrade or subbase.
3. **Subbase.** One or more layers of specified material of designed thickness placed on the subgrade.

SECTION 104 - SCOPE OF WORK

104.03.03 Types of Changes

3. Changes in the Character of Work.

a. Differing Site Condition.

THE SECOND PARAGRAPH IS CHANGED TO:

The Department will make payment for increased costs resulting from a Type 1 or Type 2 Differing Site Condition as a change in the character of work; however, the Department will not consider making payment for a differing site condition unless the resulting change in cost exceeds \$7,500. Except, if the Contractor incurs cost as the result of multiple differing site conditions, with the cost of each separate differing site condition having a value of at least \$1,500 but not more than \$7,500, the Department will consider making payment for such costs if the aggregate cost of the multiple differing site conditions exceeds \$7,500. If the change in cost exceeds these amounts, the Department will base the modification on the total cost of the change, and the Department will not deduct the threshold amount of \$7,500 from the cost of the change.

104.03.04 Contractual Notice

THE SECOND PARAGRAPH IS CHANGED TO:

Immediately provide written notice to the RE of a circumstance that is believed to be a change to the Contract, include the following in the initial written notice:

1. A statement that this is a notice of a change.
2. The date when the circumstances believed to be a change was discovered.
3. A detailed and specific statement describing the nature and circumstances of the change.
4. If the change will or could affect costs to the Department.
5. If the change will or could affect Contract Time as specified in 108.11.01.C.

In addition to the hard copy of the notice, email the notice to the RE. It is not necessary to attach listed documents to the email.

104.03.08 Force Account

7. Equipment.

a. Contractor-Owned Equipment.

PART 1 IS CHANGED TO:

- 1 The Department will calculate the “rental” hourly rates by dividing the monthly rate by 176. The Department will not use weekly, daily, or hourly rates. The Department will apply rental hourly rates for every hour the equipment is in active use, except that for any 30-day period, the Department will limit the total amount paid for each piece of equipment to a maximum of the monthly rate.

THE FOLLOWING PART IS ADDED:

6. The Department will make payment for costs for transporting equipment to and from the work site, if said costs are solely required as a direct result of the Force Account activity.

THE SECOND PARAGRAPH IS CHANGED TO:

The payment established is full payment for all equipment costs, including the cost of fuel, repairs, maintenance, depreciation, storage and incidentals.

10. Subcontractors.

THE SECOND PARAGRAPH IS CHANGED TO:

The Department will make payment for markup on subcontracted work at the rate of five (5) percent applied on the total amount of all costs for subcontracted force account work up to \$500,000 and 2% applied on the total amount of all costs for subcontracted force account work over \$500,000.

104.03.09 Delay Damages

1. Non-Productive Activity.

e. Equipment.

THE FIRST SENTENCE IS CHANGED TO:

If as the result of the delay, equipment cannot be used for any active work, and is directed by the RE to remain on the work site during the delay, the Department will make payment as specified in 104.03.08.7.a.5.

SECTION 105 - CONTROL OF WORK

105.05 WORKING DRAWINGS

THE SECOND PARAGRAPH IS CHANGED TO:

Ensure working drawing submissions also conform to the Department design manuals and other Department standards for the proposed work. After Award, the Department will provide additional formatting information, the number of copies required, and the address of the receiving designated design unit.

THE THIRD PARAGRAPH IS CHANGED TO:

Submit working drawings on 22 × 36-inch sheets. The Department may approve the use of 8-1/2 x 11-inch sheet on a case-by-case basis. Submit design calculations required for the working drawings on 8-1/2 × 11-inch paper. Submit seven (7) copies of the working drawings to the designated design unit for review with a copy of the transmittal letter to the RE. For railroad-carrying structures, submit four (4) additional copies to the designated design unit. Submit an additional copy for each outside testing agency or authority involved in the Project.

THE NINTH PARAGRAPH IS CHANGED TO:

Submit working drawings for certification or approval as specified in [Table 105.05-1](#). This list is not all-inclusive. Ensure the working drawings submitted for approval are signed and sealed by a Professional Engineer. The working drawings submitted for certification are not required to be signed and sealed by a Professional Engineer unless they alter the original Contract.

TABLE 105.05-1 IS CHANGED TO:

Table 105.05 1 - Working Drawing Submission Category	
Certified	Approved
Breakaway I-Beam GA Sign Support Posts	Catalog Cuts (related to landscape Items)
Bridge Drainage	Change in Structural Steel Details
Bridge Railing and Fencing Anchorage System	Change of Pre-stressed Concrete Strand Patterns
Catalog Cuts	Demolition Plans
Composite Piles	Erection Plans
DMS Sign Support Structure	High Load Multi-Rotational (HLMR) Bearings
DMS Standard Ground Mounted	Isolation Bearings
Elastomeric Bearings Pads	ITS System Drawings, including Block Diagrams
Electrical Items Not Pre-Qualified	Machinery and Electrical Items for Movable Bridges
Expansion Deck Joint Assembly Systems	Mechanically Stabilized Earth (MSE) Walls
Modular Expansion Joint Assembly	Other work shown on the Plans as conceptual
Pre-cast Pre-stressed Concrete Beams and Piles Fabrication	Pre-cast Concrete Arch Structures
Reinforced Elastomeric Bearings	Pre-cast Concrete Box Culverts

Table 105.05 1 - Working Drawing Submission Category (Cont'd.)

Certified	Approved
Sign Legends	Prefabricated Modular Walls
Sign Support Structures	Stay-In-Place Forms
Structural Steel Fabrication	Temporary Sheeting and Cofferdams
	Temporary Shielding
	Temporary Structures
	Value Engineering Plans

THE FIRST PARAGRAPH UNDER PART 1 OF TENTH PARAGRAPH IS CHANGED TO:

- 1. Certified Working Drawings.** For working drawings requiring certification, include two (2) blank blocks directly above the title block. Designate one block for design unit certification, and designate the other block for the Contractor's approval stamp and a signed statement stating that the Contract has not been altered. The Department will require 30 days for review and certification or rejection and return of certified working drawings.
- 1. Certified Working Drawings.**

THE LAST SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

The Department will require 15 days for review and certification or rejection and return of certified working drawings.

- 2. Approved Working Drawings.**

THE LAST SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

The Department will require 15 days for review and approval or rejection and return of working drawings.

105.07 Cooperation with Utilities.

THE FOLLOWING HAS BEEN ADDED

- A. General.** It is understood and agreed the Contractor has considered in its Proposal all of the permanent and temporary utility facilities in their present, new, or relocated positions to the extent required by the Contract Documents and as revealed by its own investigations; is aware that utility service demands, adverse field conditions and emergencies may affect the Utility's ability to comply with the proposed schedules for utility work; is cognizant of the limited ability of the County to control the actions of the Utility(s), and has made allowances in its Proposal that it is not entitled to any Additional Compensation by reasons of delays, inconvenience or damage sustained by the Contractor due to any interference from utility facilities or the operation of moving or installing them. Similarly, the Contractor is deemed to understand that only limited extensions of time may be granted as specified in Subsection 108.11.

The Contractor shall notify, in writing, the Utility(s) involved of the nature and scope of the Project, and of its operations that may affect their facilities or property. The notice shall include an inquiry for all information required to determine the location of the existing utility facilities and the Contractor shall also provide the portion of the approved Preliminary Schedule relative to that respective Utility. Two copies of such notices and the Utility's responses shall be sent to the Resident Engineer prior to the start of Construction Operations. The Contractor shall also attend a Utility pre-construction conference prior to the start of Construction Operations.

The Contractor shall provide each Utility the portion of the approved Baseline CPM Schedule related to the respective Utility and any approved updates or revisions that affect that Utility.

Information on the Utility(s), including the work to be performed by the Utility(s) on the Project, will be provided in the Special Provisions.

The corporations, companies, agencies, or municipalities owning or controlling the utilities, and the name, title, address, and telephone number of their local representative are attached herein.

Bidders are advised to verify the above information as its accuracy and completeness is not guaranteed by the County.

The Contractor is advised the design for this Contract did not identify any anticipated utility conflicts. However, this Contract does require the Contractor to call the State's One Call System as specified in Subpart C., to verify a conflict does not exist.

A pre-construction meeting will be held to enable full coordination of parties involved in this project. The County will arrange this meeting shortly after award of contract and prior to the start of any work and send an agenda and written invitations to municipal officials, utility owners and any other interested parties.

A minimum of five business days prior to the pre-construction meeting, the Contractor will provide the County, in writing, with the following:

- 1. Proposed work schedule;*
- 2. List of Sub-Contractors;*
- 3. List of material suppliers;*
- 4. Certificates of Compliance for all materials and or assemblies, including: Raised Pavement Markings; Signs; Public Sidewalk Ramp Delineation, etc.;*
- 5. Breakdown of any lump-sum items;*
- 6. Shop drawings of all construction items.*

THE CONTRACTOR WILL NOT COMMENCE WORK UNTIL THE ABOVE MATERIAL IS RECEIVED & APPROVED.

SECTION 106 - CONTROL OF MATERIAL

106.07.01 Certification of Compliance

Submit manufacturer's Certifications of Compliance stating that the materials and/or assemblies fully comply with the requirements of the Contract when required by the Contract or requested by the Department.

Ensure Manufacturer's Certification of Compliance contains the following information:

1. Project Name.
2. Name of the Contractor.
3. Material description.
4. Quantity of material represented by the certification.
5. Means of identifying the consignment, such as label marking or seal number.
6. Date and method of shipment.
7. A statement that the material conforms to the Contract material requirements and that representative samples have been sampled and tested.
8. If the submission is for an assembly of materials, a statement that the assembly conforms to the Contract.
9. Signature of a person having legal authority to bind the supplier.
10. Typed or printed name of the person who signed the certification.

Before incorporating the materials into the Project, obtain three (3) copies of the manufacturer's Certifications of Compliance for materials, components, and manufactured items that are accepted by certification. Retain one (1) copy and submit two (2) copies to the RE. With the Certification of Compliance, provide a transmittal identifying the Item for which it is submitted. For products that contain steel or iron, attach additional documents as required by the certification procedures as specified in 106.07.02. The Contractor may submit the Certifications of Compliance electronically to the RE in a scanned document. Include the transmittal and all backup documentation in the scanned document.

The Department has the right to sample and test materials or assemblies accepted on the basis of Certifications of Compliance at any time. The Department will reject materials or assemblies, whether in place or not, if found not to be in conformance with the Contract requirements.

The Department will not make payment for an Item for which material is accepted on the basis of a Certification of Compliance until the RE has received the required Certification of Compliance and has inspected and accepted the material or assembly.

106.07.02 Certification for iron and steel

A. Pre-cast Concrete Steel and Concrete Pipe Certification of Compliance. For pre-cast concrete and concrete pipe items, a Buy America Compliance Plan is required to confirm that the material meets the Buy America requirements as specified in 106.03. The ME will periodically audit compliance with the program at the pre-cast plant. If the pre-cast concrete item is not inspected by ME, submit a Certification of Compliance for the pre-cast concrete item as required in 106.07.01. When a Certification of Compliance is submitted, ensure the Certification of Compliance contains a statement that the reinforcing steel used in the pre-cast concrete item complies with the Buy America requirements as specified in 106.03.

- B. Incidental Steel or Iron Components and Manufactured Products.** Incidental steel and iron components such as lifting hooks, tie wire, chairs, nuts, bolts and screws are not required to be certified for compliance with Buy America requirements. For manufactured products that are not made predominantly of steel, the steel components are not required to be certified for compliance with Buy America requirements.
- C. Step Certification of Compliance.** For products that contain steel or iron components and are not covered in 106.07.02.A or 106.07.02.B, step Certification of Compliance is required to confirm that the item meets the Buy America requirements as specified in 106.03. A step certification is a process under which each handler (e.g., supplier, fabricator, manufacturer, processor, coating facility) of the iron and steel components certifies the steel and iron components were of domestic origin and that their step in the process was domestically performed.

Every step in the process from melting to coating must be performed in the United States in order for the steel or iron component to be considered domestic and must be documented by step certification. If a domestic source for a steel or iron component cannot be found, submit a request for waiver to the Department. Do not purchase non-domestic steel or iron components without the express written consent of the Department.

Ensure three (3) copies of the Contractor's Certification of Compliance (Form DC-17) and the step Certifications of Compliance are provided for items containing steel or iron. Retain one (1) copy and submit two (2) copies to the RE. The Contractor may submit the DC-17 and the step certifications electronically in a scanned document.

Ensure step Certifications of Compliance contain the following information:

1. Name of the Company supplying the material.
2. Name and location of the Company the material was shipped to.
3. Material description.
4. Quantity of material represented by the Certification.
5. Means of identifying the consignment, such as label marking or seal number.
6. Date and method of shipment.
7. A statement that the material conforms to the Contract material requirements and to the Buy America requirements in 106.03.
8. A statement that all steel or iron components in the material or assembly were "melted and manufactured in the US," unless there is non-domestic steel or iron in the material or assembly.
9. If there is non-domestic steel or iron in the assembly, describe in detail the non-domestic steel or iron material and the quantity. Attach a copy of the Department's approval for the use of non-domestic steel or iron components.
10. Signature of a person having legal authority to bind the supplier.
11. Typed or printed name of the person who signed the certification.

The Department will not make payment for work containing steel or iron materials until the RE has received the required DC-17 and step Certifications of Compliance and has inspected and accepted the material or assembly.

SECTION 107 - LEGAL RELATIONS

107.04 NEW JERSEY CONTRACTUAL LIABILITY ACT

THE FOURTH PARAGRAPH IS CHANGED TO:

For purposes of determining the date of “completion of the contract” pursuant to N.J.S.A. 59:13-5, “completion of the contract” occurs on the date that the Contractor provides written notice to the Department of Acceptance or conditional Acceptance of the Proposed Final Certificate or the 30th day after the Department issues the Proposed Final Certificate, whichever event occurs first.

107.09 INDEPENDENT CONTRACTOR

THE ENTIRE SUBSECTION IS CHANGED TO:

The relationship of the Contractor to the State is that of an independent contractor. Conduct business consistent with such status. Do not hold out or claim to be an officer or employee of the Department by reason hereof. Do not make a claim, demand, or application to or for the rights or privileges applicable to an officer or employee of the Department, including, but not limited to, Workers Compensation Insurance, unemployment insurance benefits, social security coverage, or retirement membership or credit.

107.11 RISKS ASSUMED BY THE CONTRACTOR

THE ENTIRE SUBSECTION IS CHANGED TO:

- 1. Risks of Loss or Damage to the Permanent Construction.** Until Acceptance, and within the limits of the Project’s work, the Contractor shall bear the risk of all loss or damage to all permanent construction and temporary construction performed under this Contract and to materials, whether or not it has received payment for such construction or materials under Subsection 109.05, 109.06, or 109.07, except payment will be made to the Contractor for the repair or replacement of any permanent element of the construction which has not been accepted by the Department, if the element of the work damaged is completed to the stage of serving its intended function and is subsequently damaged by accident by public traffic. In order to receive payment, the Contractor must supply satisfactory evidence that such damage was caused by a public traffic accident that was not caused by vandalism or by the equipment of the Contractor or any of its subcontractors or suppliers. Satisfactory evidence shall generally be limited to: accident reports filed with the Division of Motor Vehicles, police agencies or insurance companies; statements by reliable, unbiased eyewitnesses; 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 clearly shown that the damage was not caused by the Contractor’s vehicles or by vandalism. The Contractor shall take every precaution, as allowed by the Contract against injury or damage to any part of the construction or to materials by the action of the elements, the traveling public, vandalism, or from any other cause, whether arising from the execution or the non-execution of the work. The Contractor shall promptly repair, replace, and make good any such damage or loss without cost to the Department. The Contractor shall not bear such risk of loss or damage, which arises from acts of war or floods, tidal waves, earthquakes, cyclones, tornadoes, hurricanes, or other cataclysmic natural phenomenon unless such loss or damage is covered by insurance.

THE FOLLOWING SUBSECTION IS ADDED:

107.17 COMMUNICATION WITH THE NEWS MEDIA

Do not communicate with the news media or issue a news release without obtaining a prior written approval from the Department.

SECTION 108 - PROSECUTION AND COMPLETION

108.01 SUBCONTRACTING

1. Values and Quantities.

THE FOLLOWING IS ADDED TO FIRST PARAGRAPH

1. There are no Specialty Items in this Project.

THE THIRD PARAGRAPH IS CHANGED TO:

If a partial quantity of work for a unit price Item is subcontracted, the Department will determine the value of the work subcontracted by multiplying the price of the Item by the quantity of units to be performed by the subcontractor.

THE FOURTH PARAGRAPH IS CHANGED TO:

If only a portion of work of an Item is subcontracted, the Department will determine the value of work subcontracted based on the value of the work subcontracted as indicated in the subcontract agreement and as shown in a breakdown of cost submitted by the Contractor.

108.02 COMMENCEMENT OF WORK

THE SUBPART 4 IN THE FIRST PARAGRAPH IS CHANGED TO:

4. Progress schedule as specified in 153.03

108.06 NIGHT OPERATIONS

THE FOLLOWING IS ADDED TO THE BEGINNING OF THE FIRST PARAGRAPH:

The Contractor shall be responsible for furnishing, maintaining, removal and/or disposal of all equipment, material and manpower necessary for compliance with this sub-section.

2. Visibility Requirements for Workers and Equipment.

THE FIRST PARAGRAPH IS CHANGED TO:

Ensure workers wear a 360° high-visibility retroreflective safety garment meeting ANSI/ISEA Class 3, Level 2 standards.

108.07 TRAFFIC CONTROL

THE FOLLOWING IS ADDED:

Working hours for this project are as follows:

Weekdays (Monday through Friday)

Day-Time 9:00 am to 4:00 pm

Weekends/Holidays

Not Allowed without Approval from Union County

108.07.01 Interference

THE FOLLOWING IS ADDED TO THIS SUB-SECTION:

It shall be the Contractor's responsibility to maintain driveway access for all adjacent property owners.

In the event industrial and commercial driveway access must be temporarily denied, the Contractor shall provide written notice to the Engineer and property owner at least five (5) working days in advance of the driveway closing.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL WORK ZONES FOR THE CONSTRUCTION. ALL TRAFFIC CONTROL DEVICES & MANPOWER NECESSARY TO MAINTAIN SUCH WORK ZONES IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES SHALL BE SUPPLIED, IMPLEMENTED AND REMOVED AT THE APPROPRIATE TIME BY THE CONTRACTOR.

108.09 Maintenance within the Project Limits

The following is added to this sub-section:

The Contractor shall not be responsible for removal of ice or snow from sections of roadways opened to traffic or for damage to the project caused by the operation of snowplows or other snow removal or deicing operations carried on by others under the supervision or direction of the County. The Contractor shall not be responsible for mowing unless an item for mowing is scheduled in the proposal form. However, the Contractor shall be responsible for the removal of all leaves, debris and other material on the road, prior to reconstruction and resurfacing. The Contractor will also be responsible for street sweeping prior to resurfacing operations, and at the end of each day following milling operations.

108.11.01 Extensions to Contract Time

B. Types of Delays.

1. Non-Excusable Delays.

THE FOLLOWING IS ADDED:

For work performed by Utilities, delays up to 30 percent of the estimated duration specified in 105.07.02 are considered non-excusable. The duration includes both the advance notice and the completion of the work by the Utility.

2. Excusable, Non-Compensable Delays.

b. Utilities.

THE LAST PARAGRAPH IS CHANGED TO:

If approved excusable, non-compensable delays exceed a total of 90 days, the time in excess of 90 days will become excusable and compensable as specified in 108.11.01.B.3.

108.19 COMPLETION AND ACCEPTANCE

THE FOLLOWING IS ADDED:

No Incentive Payment for Early Completion is specified for this project.

SECTION 109 - MEASUREMENT AND PAYMENT

109.01 MEASUREMENT OF QUANTITIES

THE SECOND PARAGRAPH IS DELETED:

109.02 SCOPE OF PAYMENT

THE THIRD SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

The Department will not make additional or separate payment for work or portion of work unless specifically provided for in the "Measurement and Payment" Subsection.

109.05 ESTIMATES

THE SECOND PARAGRAPH IS CHANGED TO:

The RE will provide a summary of the Estimate to the Contractor. Before the issuance of each payment, certify, on forms provided by the Department, that:

- Each subcontractor or supplier has been paid the amount due from the previous progress payment and shall be paid the amount due from the current progress payment and that full payment for any retainage withheld from a subcontractor has been or will be made within 30 days after the subcontractor's work has been satisfactorily completed; or
- There exists a valid basis under the terms of the subcontractor's or supplier's contract to withhold payment from the subcontractor or supplier, and therefore payment is withheld.

THE TENTH PARAGRAPH IS CHANGED TO:

The RE has the right to not process an Estimate when, in the judgment of the RE, the Work is not performed or proceeding as specified in the Contract or following the Department giving the Contractor and Surety notice of default as specified in 108.14.

DIVISION 150 - CONTRACT REQUIREMENTS

SECTION 151 - PERFORMANCE BOND AND PAYMENT BOND

151.04 MEASUREMENT AND PAYMENT

THE FOLLOWING IS ADDED:

Payment will not be made for Performance Bond and Payment Bond. All costs thereof shall be included within the various bid pay items.

SECTION 152 - INSURANCE

152.03.01 Owner's and Contractor's Protective Liability Insurance

A. Policy Requirements.

THE FOURTH SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

Ensure policies are underwritten by companies with a current A.M. Best rating of A- with a Financial Size Category of VII or better.

152.04 MEASUREMENT AND PAYMENT

THE FOLLOWING IS ADDED:

Payment will not be made for insurance of any kind. All costs thereof shall be included within the various bid pay items.

SECTION 153 - PROGRESS SCHEDULE

153.03.02 CPM Progress Schedule Updates

THE LAST PARAGRAPH IS CHANGED TO:

If the project falls behind schedule for non-excusable delays, so that the schedule indicates that the Work will not be completed by the Completion date, as specified in 108.10, take the necessary steps to improve progress. Under such circumstances, the RE may direct the Contractor to increase the number of shifts, begin overtime operations, work extra days including weekends and holidays, and supplement its construction plant. Furthermore, the RE may require the Contractor to submit for approval a recovery schedule showing how the Contractor proposes to meet the directed acceleration.

2. Tabular Reports.

THE FIRST SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

The RE may require three (3) color paper copies of the longest path sort, total float sort, responsibility sort, area sort, and Gantt chart.

153.03.03 Bar Chart Progress Schedule and Updates

A. Schedule.

THE THIRD SENTENCE OF THE THIRD PARAGRAPH IS CHANGED TO:

Provide three (3) color paper copies of a bar chart progress schedule or similar type that is acceptable to the RE for approval as follows:

THE FOLLOWING IS ADDED:

If the project falls behind schedule for non-excusable delays, so that the schedule indicates that the Work will not be completed by the Completion date, as specified in 108.10, take the necessary steps to improve progress. Under such circumstances, the RE may direct the Contractor to increase the number of shifts, begin overtime operations, work extra days including weekends and holidays, and supplement its construction plant. Furthermore, the RE may require the Contractor to submit for approval a recovery schedule showing how the Contractor proposes to meet the directed acceleration.

153.04 MEASUREMENT AND PAYMENT

THE FOLLOWING IS ADDED:

Payment will not be made for Project Schedules of any kind including updates. All costs thereof shall be included within the various bid pay items.

THE THIRD PARAGRAPH IS CHANGED TO:

If the Contractor's CPM Progress Schedule update is not approved by the date of the progress meeting for the following update, the Department will assess liquidated damages to recover the Department's increased administrative costs. The Department will assess damages for each delinquent update as follows:

SECTION 157 - CONSTRUCTION LAYOUT AND MONUMENTS

157.03.01 CONSTRUCTION LAYOUT

THE SEVENTH PARAGRAPH IS CHANGED TO:

Provide the Utilities with the layout needed to install relocated utility facilities and coordinate the Work. Ensure relocated facilities do not conflict with proposed construction, including High Voltage Proximity Act conflicts.

157.03.01 MEASUREMENT AND PAYMENT

THE FOLLOWING IS ADDED:

Payment will not be made for Construction Layout. All costs thereof shall be included within the various bid pay items.

**SECTION 158 - SOIL EROSION AND SEDIMENT CONTROL AND WATER
QUALITY CONTROL**

158.04 MEASUREMENT AND PAYMENT

THE PAY ITEM CONCRETE WASHOUT SYSTEM IS DELETED AND THE FOLLOWING IS
ADDED:

Separate payment will not be made for Concrete Washout System but the costs shall be included in the
various items of the proposal.

SECTION 159 - TRAFFIC CONTROL

THE FOLLOWING IS ADDED AFTER THE FIRST PARAGRAPH:

ALL WORKERS SHALL WEAR REFLECTORIZED GARMENTS, UTILIZING 360° VISIBILITY, AS SPECIFIED FOR TRAFFIC DIRECTORS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL WORK ZONES FOR THE CONSTRUCTION. ALL TRAFFIC CONTROL DEVICES WITHIN WORK ZONES SHALL BE ESTABLISHED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ALL TRAFFIC CONTROL MEASURES SHALL BE SUPPLIED, IMPLEMENTED AND REMOVED AT THE APPROPRIATE TIME BY THE CONTRACTOR.

All traffic control devices shall comply with these Specifications and the Standard Details for Traffic Control Devices as developed by the New Jersey Department of Transportation.

All traffic control devices furnished by the Contractor shall be new, or in acceptable condition as defined by the American Traffic Safety Services Association (ATSSA), Quality Standards For Work Zone Traffic Control Devices - 3rd Edition. Traffic control devices damaged under this Contract as a result of carelessness or mishandling by the Contractor (i.e., running over cones or barrels with his equipment or splashing tar on traffic control devices, etc.) shall be replaced by the Contractor at no additional cost to the County. The Contractor shall replace damaged traffic control devices within one (1) calendar day. The County reserves the right to reject any traffic control device, which in their sole opinion does not satisfy the criteria of these Specifications, is damaged or otherwise incapable of providing the function for which it was intended. In this event, the Contractor shall replace the deficient traffic control devices and/or materials within one (1) calendar day. Upon completion of the Project, all traffic control devices and materials furnished by the Contractor shall be removed by the Contractor.

All signs furnished by the Contractor shall conform to the latest addition Manual of Uniform Traffic Control Devices and the U.S.D.O.T. Manual of Standard Highway Signs. ***All signs & traffic control devices shall be manufactured with, or incorporate 3M diamond grade material or approved equal. All signs shall be aluminum, with a thickness of 0.100 inches, and cut to Standard sizes.***

Should the Contractor begin work prior to the work zone being properly established as described herein, the County shall assume no responsibility for tort liability issues arising from the Contractor's premature start. All liability and consequence arising from a premature start is solely the Contractor's.

In the event that the manhole, inlet or other appurtenance is in the middle of a travel way and the placement of a traffic device would impede the flow of traffic, the manhole, inlet or other appurtenance will be ramped in accordance with Construction Details with fresh hot mix asphalt material (either cold or hot mix). The use of millings to perform this operation will not be allowed.

159.03.01 TRAFFIC CONTROL COORDINATOR

THE FOLLOWING IS ADDED:

The Contractor shall be responsible for project maintenance within the project limits until acceptance. This maintenance shall consist of continuous and effective work prosecuted day by day, with adequate equipment and forces to the end that the roadway is kept in satisfactory condition at all times. In the case of a contract requiring the placing of a course upon a course or subgrade previously constructed, the Contractor shall maintain the previous course or subgrade during all construction operations.

Prior to the start of construction operations, the Contractor shall assign a supervisory-level employee to be the Traffic Control Coordinator. The Engineer and affected municipalities shall be notified as to the name & telephone number of this individual on a 24-hour, 7-day a week basis. **A PAGER NUMBER FOR THIS PURPOSE WILL NOT SUFFICE. IF AND WHEN THE NUMBER IS CALLED, THE CONTRACTOR OR DULY APPOINTED AGENT MUST BE AVAILABLE TO ANSWER AND RESPOND TO THE EMERGENCY CALL. THE CONTRACTOR'S RESPONSE TIME TO EMERGENCIES THAT ARISE DURING THIS PROJECT SHALL BE WITHIN ONE (1) HOUR.**

The Traffic Control Coordinator shall be responsible for ensuring that the Contractor meets all provisions of the current edition of the Manual on Uniform Traffic Control Devices, OSHA, ANSI and Title 39 – Uniform Motor Vehicle Laws of New Jersey. The Traffic Control Coordinator shall be the liaison between the Contractor and County for the duration of the project. It will be his/her responsibility to notify the Engineer when and where the Contractor's work force and equipment shall be throughout the workday. The Traffic Control Coordinator is responsible for the following:

- Ensure all Contractor equipment and vehicles are properly stored and parked so as not to create a traffic hazard;
- Coordinate the Contractor's work schedule and need for traffic directors with the Engineer or duly appointed representative with regards to the maintenance and protection of traffic;
- Confirm the Contractor's compliance and cooperation with the Engineer with regards to the maintenance and protection of traffic;
- Repositioning of traffic control devices displaced by traffic or construction equipment;
- Notifying County forces of damaged traffic control devices;
- Confirm all traffic control devices moved or repositioned by the Contractor or his forces are placed in their original position;
- Coordinate all Concrete Construction Work Zones, including signage, traffic control devices and the appropriate manpower.

The Contractor shall be responsible for maintaining safe and adequate pedestrian access in, near or around the work site. Neither the Contractor's equipment nor debris and materials shall occupy any part of the sidewalk, path or traveled way that is not being constructed.

All equipment, materials, excavated material or debris shall be removed by the end of the workday. Material or debris left at the end of the day by the Contractor on, near or adjacent to the sidewalk or traveled way that is open to pedestrians and vehicles is subject to removal by the County forces. In this event, the costs associated with the removal will be deducted from monies owed the Contractor.

159.03.02 Traffic Control Devices

THE FOLLOWING IS ADDED AFTER THE FIRST PARAGRAPH:

Traffic Control devices shall be NCHRP-350 crash-test compliant by the NJDOT and shall be duly certified, if necessary.

Newly purchased devices shall be NCHRP-350 compliant. A list of NCHRP 350 compliant and FHWA approved devices can be found at:

http://www.fhwa.dot.gov/safety/fourthlevel/pro_res_road_nchrp350.htm

4. Portable Variable Message Signs (PVMS)

THE FOLLOWING IS ADDED:

Install and activate portable variable message signs (PVMS). Install one (1) PVMS in advance of the construction limits along each approach to the work zone as directed by the Resident Engineer. Activate PVMS a minimum of one full week (seven [7] calendar days) in advance of the start of construction and remove PVMS upon completion of the construction. PVMS shall generally read the expected construction duration and expected delays. The actual messages shall be provided by the County.

THE FOLLOWING SUBSECTION IS REPLACED IN ITS ENTIRETY WITH THE FOLLOWING:

6. Traffic Control Truck with Mounted Crash Cushions.

THE LAST SENTENCE IS CHANGED TO:

Submit drawings to the RE detailing the manner of securing the ballast, signed and sealed by a Professional Engineer, certifying that it is capable of withstanding the impact forces for which the impact attenuator is rated. Contractor shall provide Traffic Control Truck with Mounted Crash Cushion to aid in the placement of traffic control devices as needed for the duration of the project when directed.

159.03.06 TEMPORARY TRAFFIC STRIPES AND TEMPORARY TRAFFIC MARKINGS

THE ENTIRE TEXT IS CHANGED TO:

Apply temporary traffic stripes and markings when the ambient and surface temperatures are at least 45 °F and rising and the surface temperature is no more than 140 °F. Apply the traffic paint in a wet film thickness of 6 ± 1 mil. Apply glass beads to the wet paint in a uniform pattern and at the rate of 12 pounds per gallon of paint. Ensure TRAFFIC STRIPES and TRAFFIC MARKINGS are applied within 14 days of placing temporary traffic stripes and markings unless directed by the RE.

159.03.08 TRAFFIC DIRECTION

A. Flagger.

THE LAST SENTENCE IS CHANGED TO:

Ensure the flagger is equipped with a STOP/SLOW paddle and follows MUTCD flagging procedures.

THE FOLLOWING IS ADDED TO THIS SECTION:

Should the circumstances arise during any construction operations where the use of flaggers are not permitted by the Motor Vehicle & Traffic Laws of New Jersey, Title 39, specifically 39:4-57 and or 39:4-80 & 81, or any other section in Title 39, or in the opinion of the Engineer, where the limitations of such flaggers in the roadway do not optimize the safety of pedestrians & the motoring public, Off-Duty Police Traffic Directors shall be utilized. Under these circumstances, it shall be the Contractor's responsibility to coordinate & schedule all officers necessary for the appropriate construction phases; however, the County of Union will regulate the amount of & location of each director. The Contractor shall be responsible for paying prevailing wage rates for Police Traffic Directors, at the respective Municipal Police Department rate. Reimbursement for police traffic directors shall be based on the amount of actual person-hours provided by the respective municipalities. Reimbursement will not be made for any:

- *Differential overtime rate;*
- *Vehicle charges;*
- *Administration fees, & or taxes.*

Payment of such shall be included in the overall price bid for various traffic control pay items. The Contractor shall be required to produce proof of both payment & hours worked for each officer, at each post for each assignment. Should the Contractor fail to produce said proof, the County will withhold payment on this item until such time that adequate & satisfactory proof can be provided.

B. Police.

THIS SUBSECTION HAS BEEN REPLACED IN ITS ENTIRETY WITH THE FOLLOWING:

The Contractor shall coordinate with local police departments from the Rahway City as to their requirements or compliance with State Law for police presence during commencement from one construction stage to the next construction stage only. Contractor shall be responsible for scheduling all work and notifications with the local police to comply with local ordinance or police presences. The use of police services does not relinquish or diminish the Contractor’s responsibilities for work zone safety nor shall they serve as a substitute for traffic director flaggers. County is not responsible for interruptions or delays to construction activities resulting from any failure of police presences at the work site.

159.04 MEASUREMENT AND PAYMENT

THE LIST OF PAY ITEMS IS DELETED, AND THE FOLLOWING ARE ADDED:

<i>Item</i>	<i>Pay Unit</i>
MAINTENANCE AND PROTECTION OF TRAFFIC	LUMP SUM
PORTABLE VARIABLE MESSAGE SIGNS	UNITS
TRAFFIC DIRECTOR, UNIFORM POLICE	ALLOWANCE

ALL PAY ITEMS RELATED TO TRAFFIC CONTROL SHALL BE COVERED UNDER THE MAINTENANCE AND PROTECTION OF TRAFFIC ITEM:

Separate payment will not be made for Temporary Pavement Markers, Temporary Pavement Marking Tape, Temporary Traffic Stripes and Temporary Traffic Markings, but the costs shall be included in the lump-sum bid for Maintenance and Protection of Traffic.

THIS SUB-SECTION IS AMENDED AS FOLLOWS:

The County has included an allotted cost in the bid proposal for the presence of uniform police for this project. The Contractor shall provide invoice receipt from the municipality for work performed by uniform police, as well as the municipality requirements for police presence on public roadways for construction activity in justifying payment and reimbursement.

Where Police Traffic Directors may be utilized, the Contractor shall notify the respective Police Department at least four (4) business days (96 hours) in advance of requiring the traffic directors. Should there be a difference between the Engineer’s requirement, and that of the Police Department, the Contractor shall immediately notify the Engineer and request clarification.

If the Contractor cancels any work, without prior notice to the affected Municipal Police Department, then any costs incurred from the respective Police Departments shall become the Contractor's responsibility. The Contractor shall be responsible for establishing any and all escrow accounts that may be required by the Municipal Police Department. The Contractor shall confirm specific details of hiring Traffic Directors with each respective Police Department.

Separate payment will not be made for relocating traffic control devices as required or as directed. Separate payment will not be made for posts or stands for construction signs. Separate payment will not be made for traffic control coordinator. Separate payment will not be made for moving the traffic control truck units during the various stages of construction. Separate payment will not be made for escape ramps provided at the edges of pavement lifts or at excavations. All costs thereof shall be included in the prices bid for the various Pay Items scheduled in the Bid Sheets.

All property owner notices, traffic control devices & manpower necessary to maintain such work zones utilizing the necessary devices and items, other than those stipulated to be paid under a separate bid pay item shall be supplied, implemented and removed at the appropriate time by the Contractor. Separate payment will not be made for the cost of such traffic control devices, any relocation of such and associated manpower but the costs shall be included in the various items of the proposal.

SECTION 160 - PRICE ADJUSTMENTS

160.04 MEASUREMENT AND PAYMENT

THE LIST OF PAY ITEMS IS DELETED AND THE FOLLOWING IS ADDED:

No payment will be made for price adjustments of any kind.

SECTION 161 - FINAL CLEANUP

161.04 MEASUREMENT AND PAYMENT

THE ENTIRE SUBSECTION IS CHANGED TO:

Separate payment will not be made for Final Cleanup but the costs shall be included in various items of the proposal.

SECTION 202 - EXCAVATION

202.02 MATERIALS

THE FIRST IN THE LIST IS CHANGED TO:

Coarse Aggregate (No. 57, or 67)901.03

202.03.03 Excavating Unclassified Material

A. Excavating.

THE FIRST PARAGRAPH IS CHANGED TO:

Unclassified excavation consists of excavation and management of material of whatever nature encountered, including regulated material, pavement removal and acid producing soil.

202.03.04 Excavating Regulated Material.

THE FIRST PARAGRAPH IS CHANGED TO:

Regulated material excavation consists of excavation and management of material of whatever nature encountered that is classified as regulated or hazardous material in the NJDEP Solid Waste Regulations, N.J.A.C. 7:26-1 *et seq.* or N.J.A.C 7:26-8.

THE FIRST SENTENCE OF THE SECOND PARAGRAPH IS DELETED

3. Temporarily Storing.

THE FIRST PARAGRAPH IS CHANGED TO:

Temporarily store regulated or hazardous material in stockpiles within the Project Limits and as shown on the Plans. Construct stockpiles on polyethylene sheeting. Contain stockpiles with haybales or silt fence placed continuously at the perimeter of the stockpiles. For hazardous material, if a stockpile area is not available within the Project Limits, sample and analyze materials in-situ for disposal. Excavate and place the hazardous regulated material directly into trucks, and haul it directly to the approved disposal facility.

202.03.05 Excavating Acid Producing Soil (APS)

THE FIRST SENTENCE OF THE SECOND PARAGRAPH IS DELETED

202.03.07 Reuse or Disposal of Excess Material

A. Reuse.

THE THIRD PARAGRAPH IS CHANGED TO:

Upon RE's approval, reuse excavated soil to widen or flatten slopes of embankment, to fade embankments into cuts, or as approved at other locations. Ensure the excess material is not reused within a wetland, a transition area, a riparian zone, a flood hazard area or other regulated area without obtaining an appropriate NJDEP permit.

B. Disposal.

PARTS 1 AND 2 UNDER THE FIRST PARAGRAPH ARE CHANGED TO:

1. At least 10 days before disposing, submit the disposal procedure and location to the RE for approval. Do not dispose of excavation on property proposed to be used for parks, playgrounds, and other recreational purposes; residential facilities, and educational facilities; environmentally sensitive areas such as wetlands, and historic sites; or areas within sight of a State highway during all seasons.
2. Obtain the property owner's notarized authorization of the acceptance of the excess material and where it is being placed.

202.04 MEASUREMENT AND PAYMENT

THE FOLLOWING PAY ITEMS ARE DELETED:

<i>Item</i>	<i>Pay Unit</i>
PRESPLITTING	SQUARE YARD
EXCAVATION, REGULATED MATERIAL	CUBIC YARD
SOIL SAMPLING AND ANALYSES, REGULATED	UNIT
EXCAVATION, ACID-PRODUCING SOIL	CUBIC YARD
SOIL SAMPLING AND ANALYSES, ACID-PRODUCING SOIL	UNIT
DISPOSAL OF ACID-PRODUCING SOIL	TON
DISPOSAL OF REGULATED MATERIAL	TON
DISPOSAL OF REGULATED MATERIAL, HAZARDOUS	TON
REMOVAL OF PAVEMENT	SQUARE YARD

THE FOLLOWING IS ADDED:

Disposal of asphalt and concrete will be made to an N.J.D.E.P. approved recycling facility. The Contractor shall notify the Recycle Facility to provide the County with appropriate credit for recycling.

The Department will not make payment for presplitting but all costs shall be included in the unit price bid for the item Excavation, Unclassified.

The Department will not make payment for the excavation of regulated materials or acid producing soils but all costs shall be included in the unit price bid for the item Excavation, Unclassified.

The Department will not make payment for soil sampling and analyses required to complete the project but all costs shall be included in the unit price bid for the item Excavation, Unclassified.

The Department will not make payment for removal of pavement but all costs shall be included in the unit price bid for the item Excavation, Unclassified.

The Department will not make payment for disposal of material of whatever nature encountered but all costs shall be included in the unit price bid for the item Excavation, Unclassified.

The Department will not make payment for sawcutting, stripping and disposal of excess, unstable or unsuitable or unusable material from Excavation, Unclassified.

The Department will measure Excavation, Unclassified in unstable areas by the cubic yard of material actually excavated in the work. The Department will make payment for Excavation, Unclassified as specified in this section.

SECTION 401 - HOT MIX ASPHALT (HMA) COURSES

401.02.01 Materials

EMULSIFIED ASPHALT UNDER TACK COAT IS REVISED TO:

Emulsified Asphalt, Grade RS-1, CRS-1, SS-1, SS-1h, Grade CSS-1 or CSS-1h.....902.01.03

401.02.02 Equipment

THE LAST PARAGRAPH IS CHANGED TO:

When an MTV is used, install a paver hopper insert with a minimum capacity of 14 tons in the hopper of the HMA paver.

401.03.02 Tack Coat and Prime Coat

TABLE 401.03.02-1 IS CHANGED TO:

Table 401.03.02-1 Tack Coat Application			
Material	Spraying Temp, °F	Gallons per Square Yard	Season
Cut-Back Asphalt:			
RC-70	120 to 190	0.05 to 0.15	Oct 15 to Apr 15
Emulsified Asphalt:			
RS-1	70 to 140	0.05 to 0.15	All year
CRS-1	125 to 185	0.05 to 0.15	All year
SS-1, SS-1h	70 to 140	0.05 to 0.15	All year
CSS-1, CSS-1h	70 to 140	0.05 to 0.15	All year

TABLE 401.03.02-2 IS CHANGED TO:

Table 401.03.02-2 Prime Coat Application			
Cut-Back Asphalt	Spraying Temp, °F	Gallons per Square Yard	Season
MC-30	85 to 150	0.1 to 0.5	Oct 15 to Apr 15
MC-70	120 to 190	0.1 to 0.5	Oct 15 to Apr 15
Emulsified Asphalt:			
CSS-1	70 to 140	0.1 to 0.50	All year

401.03.03 HMA Courses

D. Transportation and Delivery of HMA.

THE FIRST PARAGRAPH IS CHANGED TO:

Deliver HMA using HMA trucks in sufficient quantities and at such intervals to allow continuous placement of the material. Do not allow trucks to leave the plant within one (1) hour of sunset unless nighttime lighting is provided as specified in 108.06. The RE will reject HMA if the HMA trucks do not meet the requirements specified in 1009.02. The RE will suspend construction operations if the Contractor fails to maintain a continuous paving operation. Before the truck leaves the plant, obtain a weigh ticket from a fully automatic scale. Before unloading, submit for each truckload a legible weigh ticket that includes the following:

1. Name and location of the HMA plant.
2. Project title.
3. Load time and date.
4. Truck number.
5. Mix designation.
6. Plant lot number.
7. Tare, gross, and net weight.

E. Spreading and Grading.

1. Longitudinal Joints.

THE FOLLOWING IS ADDED TO THIS SUB-SECTION:

When constructing the first lane, care shall be exercised in rolling so as not to displace the line and grade of the edges of the HMA. The joint in the surface course shall be offset from the lane lines by 6 inches except for the centerline of a roadway in which the joint shall fall between the double yellow traffic stripes.

A wedge joint shall be constructed when traffic is to be maintained and lift thickness is greater than 2-¹/₄ inches. A vertical edge joint will be permitted for lift thickness 2-¹/₄ inches or less when traffic has to be maintained. For lift thickness greater than 2-¹/₄ inches and traffic is not required to be maintained, a vertical edge shall be utilized.

Longitudinal joints shall be constructed utilizing one of the following methods:

- A. Vertical Edge Joint.** The paver shall be positioned so that in spreading, the HMA material uniformly overlaps the edge of the lane previously placed by 1 to 2 inches and shall be left sufficiently high to allow for compaction. In general, the height of the uncompacted HMA above the compacted HMA shall be ¹/₄ inch for each 1 inch of compacted mix. The overlapped HMA material being placed in the abutting lane shall be tightly crowded (bumped) over the joint. Any material in excess of the 1- to 2-inch overlap shall be pulled away from the joint and removed instead of broadcasting onto the new mat. When compacted, the new mat at the joint shall be even or slightly higher (Maximum ¹/₈ of an inch) than the previously placed adjoining mat. If the newly compacted mat results in a depression at the joint of ¹/₈ of an inch or more lower than the previously placed adjacent HMA layer, all paving operations shall cease until corrective action is taken by the Contractor to prevent reoccurrence. For all longitudinal joints that do not meet this requirement, the Contractor shall saw joints according to dimension guidelines of Subsection 404.19 and seal with an approved sealer.
- B. Wedge Joint.** The sloped plate of the paver shall produce a wedge edge having a face slope of 3H: 1V. The plate shall be so constructed as to accommodate compacted layer thickness of two (2) to four (4) inches. The bottom of the sloped plate shall be mounted 1 inch above the existing surface. The plate shall be interchangeable on either side of the screed. The Contractor shall maintain the wedge configuration under traffic conditions.

All loose material shall be removed from the traveled way before opening to traffic. The rolling operation of the adjoining lane shall proceed as indicated in Subpart A above, except that care shall be taken to keep coarse aggregate away from the point where the wedge meets the surface of the previously placed lane.

To assure a true line, the paver shall closely follow lines or markings placed along the joint for alignment purposes. All longitudinal joints shall be constructed parallel to the centerlines within a tolerance of plus or minus three (3) inches for every 100 linear feet. If this tolerance is not met, the mat shall be cut back to conform. The width and depth of overlapped material shall be kept uniform at all times. Overlapped material shall be looted back, pushing the material to the edge of the cold HMA mat and directly over the joint with the hot HMA mat. In no case shall excess material be broadcast across the new layer. All excess material shall be removed.

F. Compacting

THE FOLLOWING IS ADDED TO THIS SUB-SECTION:

When compacting the longitudinal edge of the first lanes placed using the wedge joint, the breakdown roller shall not extend more than two (2) inches over the top of the sloped face of the wedge joint. The Contractor shall submit a plan, to ensure material at the wedge edge is properly seated and loose material is removed, for the Resident Engineer's approval prior to the commencement of paving operations.

Care shall be taken to prevent lateral displacement of the unconfined edge during the compaction operation. The edge of the drums of vibratory or static wheel rollers shall extend over the free edge of the mat by at least six (6) inches. When compacting the joint, while paving the adjacent lane, the roller shall be placed on the newly placed HMA and overlap the joint by a distance of approximately six (6) inches.

Alternate trips of the roller shall be terminated in stops approximately two (2) feet from the preceding stop. When paving in echelon, rollers compacting the mat behind the lead paver shall maintain approximately six (6) inches of uncompacted material adjacent to the second paver. After mix from the second paver is placed against the uncompacted edge of the mat from the first paver, the rollers shall compact the HMA on both sides of the joint.

401.04 MEASUREMENT AND PAYMENT

THE PAY ITEMS POLYMERIZED JOINT ADHESIVE AND TACK COAT ARE DELETED, AND THE FOLLOWING IS ADDED:

Separate payment will not be made for Polymerized Joint Adhesive and Tack Coat but the costs shall be included in the price bid for the various items they are part thereof.

The Department will make a payment adjustment for HMA air void quality by the following formula:

$$\text{Pay Adjustment} = Q \times \text{BP} \times \text{PPA}$$

Where:

BP = Bid Price

Q= Air Void Lot Quantity

PPA= air void PPA as specified in 401.03.03H.

The Department will make a payment adjustment for HMA thickness quality by the following formula:

$$\text{Pay Adjustment} = Q \times \text{BP} \times \text{PPA}$$

Where:

BP = Bid Price

Q= Thickness Lot Quantity

PPA= thickness PPA as specified in 401.03.03I

THE FOLLOWING IS ADDED:

The cost of Excavation, Dense Graded Aggregate Base Course and Hot Mix Asphalt Base Course shall be included in the unit price bid for Hot Mix Asphalt Pavement Repair.

There will be no separate payment for sawcutting, MTV, test strips, and quality control for compaction, including comparison cores and nuclear density testing; all costs thereof shall be incidental to this section.

SECTION 504 - STRUCTURAL CONCRETE

504.03.01 REINFORCEMENT STEEL

E. Placing and Fastening.

THE FOLLOWING IS ADDED:

Distance from the forms shall be maintained by means of metal bar chairs with plastic coated feet of the proper length.

Metal bar chairs with plastic coated feet of the proper length shall be used to support all reinforcement steel.

Hardware for reinforcement steel in structures, epoxy coated.

Bar supports and screed supports shall be epoxy coated. Tie wires shall be plastic coated or epoxy coated.

504.03.02 Constructing Concrete

B. Forms.

THE FOLLOWING IS ADDED:

All formwork joints shall be tight and aligned so as to produce smooth even exposed concrete surfaces without ridges, offsets or irregularities.

All steel forms used for forming exposed surfaces of structures shall be lined with finished lumber (i.e. coated plywood or approved equal) to provide smooth even concrete surfaces. If and where the condition of the proposed steel forms is like new (i.e., without dents, warps, holes, etc.) and will provide smooth even exposed concrete surfaces, the contractor may request in writing that the engineer waive the requirement to line steel forms with finished lumber.

C. Limitations of Placing.

THE FOLLOWING IS ADDED:

The contractor's attention is called to this subsection. This project will be constructed during winter months therefore Section 1. "Cold Weather Concreting" shall be strictly enforced. The contractor will be expected to adhere to all requirements of this section. No extra work claims will be entertained for any work described in this section.

G. Removal of Forms and Falsework.

THE FOLLOWING IS ADDED:

Do not remove forms and false work until the concrete obtains a compressive strength of 4000 psi.

504.04 MEASUREMENT AND PAYMENT

THE FOLLOWING IS ADDED:

No separate or extra payment shall be made for cold weather concreting, but cost shall be included in concrete items.

THE FOLLOWING ITEM IS ADDED:

Item

Pay Unit

FLOWABLE FILL

CUBIC YARD

SECTION 507 - CONCRETE BRIDGE DECK

507.01 DESCRIPTION

The following is added:

This work shall consist of furnishing of all materials and labor necessary for the repair and/or removal and replacement of portions of the existing bridge deck joints with Zed Seal Type or approved equal transverse expansion joints.

507.02 MATERIALS.

The following is added:

The Zed Seal Type or approved equal transverse expansion joints shall adhere to the following physical properties:

Density	3 pcf
Compressive Strength:	
@10%	4 psi
@25%	6 psi
@40%	10 psi
@50%	15 psi
Compression Set:	19% set
Tensile Strength:	94 psi
Tear Strength:	19 lbf/in

507.03.01 JOINT ASSEMBLIES.

B. Installation

1. Strip Seal Expansion Joint Assemblies.

The following is added:

Zed Seal Type or Approved Equal.

A concrete joint interface must be sandblasted to remove surface contaminants and cement fines and laitance. Clean all areas in and around immediate joint opening and surface with dry compressed air.

Place the joint material, end-to-end, next to the expansion joint, to verify the proper dimensions. The width of the joint material should be 25% greater than the joint opening.

Apply the epoxy adhesive to both sides of the concrete surface and joint material to a uniform thickness of 40 mils.

Place the joint material into the expansion joint pushing downwards only. Allow joint material to cure for approximately one (1) hour prior to allowing traffic onto the joint.

507.04 MEASUREMENT AND PAYMENT.

THE FOLLOWING PAY ITEM IS ADDED:

Item

Pay Unit

BRIDGE DECK JOINT REPAIR

LINEAR FOOT

DIVISION 550 - STRUCTURE REHABILITATION

THE FOLLOWING SUBSECTION IS ADDED:

SECTION 555 - BRIDGE DECK, SUPERSTRUCTURE & SUBSTRUCTURE REHABILITATION

555.01 DESCRIPTION

All work under this section shall be carried to the limits as directed by the RE.

This work shall consist of the repair of concrete including removing and properly disposing of loose and deteriorated concrete and reinforcement steel, saw cutting the edges of areas to be repaired, cleaning the surfaces of concrete and exposed reinforcement steel within the limits of repair, applying an epoxy coating to exposed reinforcement steel, installing supplemental epoxy coated reinforcement steel where required, installing galvanized or epoxy coated steel mesh for repairs deeper than four inches, applying an epoxy bonding compound to the surface of existing concrete to be repaired if recommended by the manufacturer and placing new restoration material.

This work shall also include the removal and replacement deteriorated masonry bricks as directed by the resident engineer.

555.02 MATERIALS

Epoxy and quick-setting patch materials shall conform to the applicable requirements of section 903.07. Materials used for patch material shall be Master Emaco T1060 as supplied by BASF Building Systems of Shakopee, MN; Fast Set DOT Mix No. 1244-56 as supplied by Quikrete Companies of Atlanta, GA; SikaQuick 2500 as supplied by Sika Chemical Corporation of Lynhurst, NJ.

Epoxy coating for existing reinforcement steel shall conform to the requirements of subsection 905.01 (c) and shall be Resicoat RB-600 as supplied by Akzo Nobel Coatings Inc. of Nashville, TN; Scotchkote Fusion Bonded Epoxy Coating 413 as supplied by 3M company of St. Paul, MN; Sika Armatec 1C as supplied by Sika Chemical Corporation of Lynhurst, NJ.

Supplemental reinforcement steel in structures, epoxy coated shall conform to subsection 905.

Epoxy-coated steel mesh shall conform to AASHTO M 55 with an epoxy coating in conformance with subsection 905.01.01. Galvanized steel wire mesh shall conform to subsection 905.01.03.

Epoxy bonding coat shall conform to the requirements of subsection 903. Slow set bonding agent shall be Sika Armatec 110 as manufactured by Sika Chemical Corporation, Lynhurst, New Jersey or approved equal.

Anchors for attaching steel reinforcement/wire mesh shall be power driven fasteners as manufactured by one of the following suppliers:

Hilti, Inc.

P.O. Box 21148
Tulsa, Oklahoma
74121 Telephone:
800-879-8000

**Ramset Fastening
Systems** Route 139
Bradford, Connecticut

Remington
25000 S. Western
Avenue Park Forest,
Illinois

555.03 CONSTRUCTION

A.) CONCRETE SPALL REPAIR:

Repair of concrete shall be performed at areas outlined as Type B or Type C at locations designated by the engineer. The application of each type shall be based on the depth actually encountered in the field after the removal of loose and deteriorated concrete.

The lateral limits of each area to be removed and replaced will be delineated by the Engineer and suitably marked. Areas in need of repair will be designated by the Engineer in the field. These areas may have been increased or been repaired in the interim. **Final sounding will be necessary for final acceptance of the repaired area.**

Type B repair areas shall be saw cut to a depth of 3/4 inch with a power saw capable of making straight cuts prior to removal of deteriorated concrete, or if an area is to be repaired with pneumatically applied concrete, the edges of the repair area shall be chiseled to a depth of one (1) inch.

Type C repair areas shall be saw cut for the full depth of the deck with a power saw capable of making straight cuts prior to removal of deteriorated concrete.

All deteriorated or unsound concrete shall be removed to sound concrete or as directed by the engineer. Minimum depth of concrete removal shall be one (1) inch. If deteriorated or unsound concrete appears to extend below existing ground, the existing ground shall be excavated as required to allow for removal of all unsound or deteriorated concrete. The cost of excavating and backfilling of the existing ground will be included in the cost for Type B substructure concrete repairs. Concrete may be removed by means of approved pneumatic lightweight chipping hammers or hand tools. The size of the hammers shall not exceed 8 pounds with the bit removed. Pneumatic tools should not be placed in direct contact with reinforcement steel. Extreme care shall be taken when reinforcement steel, pre-stressed tendons or anchor bolts are uncovered so as not to damage the steel or the anchor bolt or their bond in the surrounding sound concrete. At no time shall the reinforcement steel be used for creating leverage when chipping concrete. Reinforcement steel or other embedded items damaged during concrete removal shall be repaired by the contractor, as directed by the engineer, at no additional cost to the authority. Where removal of the deteriorated concrete destroys the bond between the reinforcement steel and the concrete or where more than 1/2 the diameter of the rebar is exposed, removal shall extend to at least one (1) inch beyond the bars. The limits of the cavity for deep, narrow repairs (depth equals or exceed twice the width) shall be undercut to lock the repair patch in place.

After removal of unsound concrete, the surfaces of the remaining concrete shall be cleaned with compressed air jets to assure removal of all loose concrete, dust, and other foreign material. Compressors used for air jets shall be equipped with a functioning oil trap to prevent contamination. Embedded items shall be cleaned of all loose adhering concrete, rust and scale. Adhering concrete shall be removed from exposed reinforcement steel.

Any appurtenances such as drain pipes, conduits, and/or their supports that would interfere with the repair work shall be removed prior to the removal of damaged concrete, and reinstalled after completion of the repairs. Cost to be included in other items.

After removal of spalled concrete, repairs should be completed promptly.

For Type B and Type C repairs, deteriorated reinforcement shall be replaced with epoxy-coated reinforcement in accordance with the plans and as directed by the engineer. For repairs greater than four (4) inches in depth, galvanized or epoxy coated welded wire mesh (4 x 4 -w2.0 x w2.0) shall be securely fastened to the existing reinforcing steel or adequately anchored into sound concrete as directed by the engineer. Provide two (2) inches of cover over the welded wire mesh. No separate payment will be made for the welded wire mesh.

Adequate provisions must be made to prevent pieces of broken concrete from interfering with, or striking traffic.

Details of platforms, catches or other methods of collecting materials resulting from the preparation of spill areas for repair shall be of the contractor's design, signed and sealed by a professional engineer licensed in the state of New Jersey, and shall be submitted to the engineer for review before commencing concrete removal.. Materials collected shall not be allowed to accumulate, but shall be promptly removed and legally disposed of away from the ac expressway right-of-way in accordance with section 201.

After completion of the removal and cleaning operations, and immediately prior to the placement of any non-epoxy patch material, the surfaces shall receive a coating of the bonding compound applied in accordance with the manufacturer's recommendations and as directed by the engineer. Bonding compound shall not be applied in conjunction with pneumatically applied mortar.

Where installation of forms prohibits the use of epoxy bonding compound due to application and drying problems, slow setting bonding agent shall be applied to concrete contract surfaces. Bonding agent application conditions and procedures shall be as recommended by the manufacturer. Concrete shall be placed within a period of 48 hours after application of the bonding agent. If this time period is exceeded, another coating of the material shall be applied.

The pot-life of the epoxy-bonding compound, mixing period, maximum time lapse between mixing compound and placing of the new concrete, are all dependent on the temperature, humidity, and wind conditions. The contractor shall be acquainted with such information as recommended by the manufacturer, and shall schedule repair operations accordingly.

Non-epoxy patch materials shall be placed immediately while the bonding compound is still tacky. If the bonding compound dries before the patch material is placed, another coating of epoxy bonding compound shall be applied, as herein described, at no additional cost to the County.

When quick-setting patch material is specified, all operations shall conform to the manufacturer's recommendations. Two copies of the manufacturer's technical data sheets shall be submitted to the engineer. A technical representative of the manufacturer shall be present on the site to provide guidance in

the preparation and placement of the quick setting patch material based on prevailing climatic and job conditions. The representative shall be present at least during one complete cycle of the procedures required for the initial placement.

Quick-setting patch material shall be hand applied or formed in accordance with the manufacturer's instructions. Hand-application of patch material for repairs will not be permitted.

Preparation, placement and curing of epoxy patch material shall be in accordance with the manufacturer's recommendations.

Placement and curing of pneumatically applied mortar shall conform to the requirements of subsection 507.04.

Whatever means of placing the patch material is employed, it shall be such that the material will completely fill the space to be replaced, be thoroughly compacted, and free of air pockets. All details of design, such as v-grooves, chamfers, joints, etc., in the existing abutment or pier shall be duplicated in the repair work under this section.

Where existing flashing is encountered at filled joints, the contractor shall use extreme care during the work (removal of concrete, formwork and placing new reinforcement steel and concrete) so as to prevent damage to the flashing. Damaged flashing shall be repaired by the contractor to the satisfaction of the engineer at no cost to the authority.

After the patch material is in place, normal finishing operations shall be completed. Reinforcement steel, placing of concrete, forming, removal of forms, finishing and curing of the patch material shall conform to the applicable requirements of section 501.

Cavities left in concrete after removal of form ties or form anchors shall be filled with non-shrink mortar similar to that of which the concrete for spall repair is prepared, or non-shrink grout.

B.) MASONRY REPOINTING:

Removal and replacement of masonry bricks shall be done in areas outlined by the Resident Engineer. Care shall be taken to not disturb adjacent areas of brick masonry. When possible, existing masonry bricks shall be used in the repair area. Replacement masonry bricks shall match, as close as possible, the existing bricks in color and composition.

555.04 MEASUREMENT AND PAYMENT

The Department will measure and make payment for items as follows:

<i>Item</i>	<i>Pay Unit</i>
REPAIR OF CONCRETE, DECK, TYPE C	SQUARE FOOT
REPAIR OF CONCRETE, SUPERSTRUCTURE, TYPE B	SQUARE FOOT
REPAIR OF CONCRETE, SUBSTRUCTURE, TYPE B	SQUARE FOOT
REPAIR OF CONCRETE, DECK, TYPE B	SQUARE FOOT
REPAIR OF CONCRETE, DECK UNDERSIDE, TYPE B	SQUARE FOOT
MASONRY REPOINTING	SQUARE FOOT

Individual areas of spall repair will be computed to the nearest square foot of exposed surface areas.

No separate payment will be made for sawcutting edges of repairs, removal and disposal of concrete, steel mesh reinforcement and new epoxy-coated reinforcement bars necessary for the concrete deck repairs. All associated costs will be included in the various repair items.

Final quantities and payment for the items above will be determined by the RE from the final depth and repair surface area measured in the field after preparation of the area and prior to placement of the patching material.

No payment will be made for the disposal of debris or for temporary shielding of the waterway. All associated costs shall be included in the various repair items.

SECTION 601 - PIPE

601.04 MEASUREMENT AND PAYMENT

THE FOLLOWING IS ADDED:

Separate payment will not be made for pipe trench backfill material and course aggregate pipe bedding but the cost shall be included in the various pipe pay items of the bid.

SECTION 606 - SIDEWALKS, DRIVEWAYS, AND ISLANDS

606.01 Description.

THE FOLLOWING IS ADDED

606.03.02 Concrete Sidewalks, Driveways, and Islands.

THE FOLLOWING IS ADDED:

The Contractor shall include the cost of all sidewalk, apron and brick removal, excavation, material disposal, expansion joint material, reinforcement material (where necessary & directed by the Engineer), curing material, adjacent site restoration, and all other material necessary for the construction of driveway aprons and various types of sidewalk, in the cost of the various items listed above. The unit price bid for these items shall include all work described heretofore for these items.

The various items for Concrete Sidewalk, consists of the removal and disposal of any existing concrete, brick or hot mix asphalt walks; excavation to the proper depth all around; setting forms as required; placing a 4" stone subbase as required; and pouring and finishing of concrete sidewalk and ramp as required at each location. After the stripping of forms, each site shall be cleaned and restored to match all adjacent conditions, including topsoil and seeding as required. The unit price given by the bidder shall include all work & restoration described hereto, for this item.

Disposal of concrete and asphalt will be made to an NJDEP approved recycling facility. The Contractor shall notify the Recycle Facility to provide the County with appropriate credit for recycling. Any brick pavers removed from the project shall be delivered to the respective Municipal Department of Public Works whence the material originated from.

New sidewalk shall meet existing sidewalk, at an existing or newly formed joint. The Contractor shall include the cost of all expansion joint materials in the unit prices.

Concrete for Concrete Sidewalks, shall be Gray, Class B, 4500 psi, 6% air-entrained, unless otherwise specified.

Concrete sidewalks shall be constructed in 4 ft. x 4 ft. squares using approved separators. An expansion joint shall be placed at 12-foot intervals. A 4-inch layer of *¾-inch clean stone subbase* shall be placed immediately below the new concrete sidewalk. This 4-inch subbase shall be constructed in accordance with Section 301, except that payment will not be made this layer. The preparation and compaction of the subbase shall be made part of the unit price bid for the Concrete Sidewalk item.

E. Expansion Joints

THIS SUB-SECTION PART E IS CHANGED AS FOLLOWS:

Expansion joints shall be ½ inch wide, placed at intervals of approximately 12 feet, and shall be filled with preformed joint filler.

H. Protection and Curing

THE LAST SENTENCE IS CHANGED TO:

Ensure vehicles and other loads are not placed on sidewalks, islands, and driveways until the concrete has attained compressive strength of 3000 pounds per square inch, as determined from 2 concrete cylinders field cured according to AASHTO T 23.

606.04 MEASUREMENT AND PAYMENT

THE FOLLOWING IS ADDED:

Separate payment will not be made for the removal of existing concrete sidewalk, hot mix asphalt sidewalk or adjacent curb, but the costs shall be included in the lump-sum bid for Maintenance and Protection of Traffic.

SECTION 607 - CURBS

607.01 Description.

THE FOLLOWING IS ADDED:

These items shall consist of the removal and disposal of various types of curb, including: concrete, Belgian block, combination curb & gutter; and or hot mix asphalt concrete curb; excavation to the proper depth; setting forms as required; placing 6" stone base as required; and pouring and finishing of concrete curb and granite as required at each location, all in the process of constructing new curb. After the stripping of forms, each site will be cleaned and restored to match all adjacent conditions, including adjoining turf repair strips in accordance with Section 805.

607.03.02 Concrete Vertical Curb and Concrete Sloping Curb

C. Installing Joints

The following is added to this sub-Section:

Expansion joints shall be provided opposite joints in abutting concrete surface course and at approximately equal distances of not more than **10** feet between joints. Joints shall be filled with preformed expansion joint filler, ½ inch thick, which shall be flush with the top and face. Between concrete curbs and concrete surface or base course, ½-inch, preformed, expansion-joint filler shall be installed and the joint shall be sealed with hot-poured joint sealer.

All materials and equipment necessary to complete the type of curb installation described in Section 607.03.02, where necessary, will also be included in the overall payment for this Item.

D. Placing Concrete.

THE ENTIRE TEXT IS CHANGED TO:

Place concrete for vertical curb and sloping curb as specified in 607.03.01.D, except that consolidation may be achieved by hand spading or internal mechanical vibrators.

607.03.04 Concrete Vertical Curb and Concrete Sloping Curb, Dowelled

D. Placing Concrete.

THE ENTIRE TEXT IS CHANGED TO:

Place concrete for vertical and sloping curb as specified in 607.03.02.D.

607.04 MEASUREMENT AND PAYMENT

THE FOLLOWING IS ADDED:

The Contractor shall include the cost of all curb removal, excavation, material disposal, expansion joint material, curing material, adjacent site restoration and dowels (where required) in the cost of the curbs. All curbs shall be depressed at handicap ramps, in accordance with the respective construction details, included in these specifications. All materials, labor & equipment necessary to complete this work shall be included in the unit price bid for the curb item. The unit price bid for this item shall include all work described heretofore.

SECTION 609 - BEAM GUIDE RAIL

609.03.01 Beam Guide Rail

THE SEVENTH PARAGRAPH IS CHANGED TO:

Install flexible delineators with white retroreflective sheeting on the right side of the direction of traffic. Install flexible delineators with yellow retroreflective sheeting on the left side of the direction of traffic. Mount flexible delineators on the blockout of beam guide rail using either a “U” channel base on the I-beam blockout or a flat base attached to a wood, polymer, or other solid top blockout. Attach the base to the blockout using an adhesive recommended by the manufacturer of the base and panel.

609.04 MEASUREMENT AND PAYMENT

THE PAY ITEM REMOVAL OF BEAM GUIDE RAIL IS DELETED AND THE FOLLOWING IS ADDED:

Separate payment will not be made for the removal of beam guide rail but the cost shall be included in the price bid for the various beam guide rail items.

Separate payment will not be made for connections of the various beam guide rail types to the parapet including extra posts, blockouts and rail elements but the cost shall be included in the various beam guide rail items.

SECTION 651 - WATER

653.04 MEASUREMENT AND PAYMENT

THIS SUB-SECTION IS CHANGED AS FOLLOWS:

The item *Reset Water Valve Box* shall not be measured, and no separate payment will be made. All costs shall be included in the various items of the proposal.

SECTION 653 - GAS

653.04 MEASUREMENT AND PAYMENT

THIS SUB-SECTION IS CHANGED AS FOLLOWS:

The item *Reset Gas Valve Box* shall not be measured, and no separate payment will be made. All costs shall be included in the various items of the proposal.

SECTION 901 - AGGREGATES

901.10.03 Virgin and RAP Mixture

3. Density Control

THE FOLLOWING IS ADDED:

When AASHTO T 310 (Direct Transmission Method, nuclear gauge method for measuring density and moisture content) is used to perform Compaction Acceptance Testing (Subsection 302.03.01), **a representative sample of five tests for each 5,000 square yards lot will be taken.**

SECTION 902 - ASPHALT

902.02.02 Composition of Mixtures

TABLE 902.02.02-2 IS CHANGED TO:

Table 902.02.02-2 Additional Fine Aggregate Requirements for HMA		
Tests	Test Method	Minimum Percent
Uncompacted Void Content of Fine Aggregate	AASHTO T 304, Method A	45
Sand Equivalent	AASHTO T 176	45

902.02.04 Sampling and Testing

B. Sampling.

THIS ENTIRE PART IS CHANGED TO:

The ME will take a random sample from each 700 tons of production for volumetric acceptance testing and to verify composition. The ME will perform sampling according to AASHTO T 168, NJDOT B-2, or ASTM D 3665.

902.03.02 Mix Design

THE FOLLOWING IS ADDED TO THIS SUB-SECTION:

UNLESS OTHERWISE APPROVED BY THE ENGINEER, ONLY ONE SOURCE OF SUPPLY FOR HOT MIX ASPHALT MATERIAL MAY BE USED ON THE PROJECT.

THE FOURTH PARAGRAPH IS CHANGED TO:

The ME will test two (2) specimens to verify the final JMF produces a mixture that has a minimum void content as specified in Table 902.03.03-1. The ME will determine percent air voids according to AASHTO T 209, and either NJDOT B-6 or AASHTO T 331.

902.03.03 Sampling and Testing

THE FOLLOWING IS ADDED TO THE FIRST PARAGRAPH:

Ensure the mix meets the requirements as specified in 902.02.04.A, otherwise the RE or ME will reject the material.

THE SECOND PARAGRAPH IS CHANGED TO:

During production, the ME will take one random acceptance sample from each 700 tons of production to verify composition. Conduct air voids and drain down tests as directed by the ME.

THE FOURTH PARAGRAPH IS CHANGED TO:

The ME will perform sampling according to NJDOT B-2 or ASTM D 3665, and will perform testing for composition according to AASHTO T 308 or NJDOT B-5. Perform testing for air voids according to AASHTO T 209 and either NJDOT B-6 or AASHTO T 331. Perform testing for drain down according to NJDOT B-7 or NJDOT B-8.

902.04.03 Sampling and Testing

THE FIRST PARAGRAPH IS CHANGED TO:

Ensure the mix meets the requirements as specified in 902.02.04.A, otherwise the RE or ME will reject the material. Maintain the temperature of the mix between 300 °F and 330 °F. Perform and meet requirements for quality control testing as specified in 902.02.04.C.

THE SECOND PARAGRAPH IS CHANGED TO:

During production, the ME will take one random acceptance sample from each 700 tons of production to verify composition. Conduct drain down tests as directed by the ME.

902.05.01 Composition of Mixture

THE FIFTH PARAGRAPH IS CHANGED TO:

For fine aggregate, use stone sand conforming to 901.05.02. Ensure the combined fine aggregate in the mixture conforms to the requirements in Table 902.02.02-2.

902.05.02 Mix Design

THE FIRST PARAGRAPH IS CHANGED TO:

Design the SMA to meet the requirements in Table 902.05.02-1 and Table 902.05.02-2. Prepare the JMF according to AASHTO R 46. Determine the JMF at four percent (4%) air voids and 75 gyrations of the Superpave gyratory compactor.

TABLE 902.05.02-2 IS CHANGED TO:

Table 902.05.02-2 SMA Mixtures Volumetric For Design and Plant Production		
Property	Production Control Tolerances	Requirement
Air Voids	±1%	4.0%
Voids in Mineral Aggregate (VMA)	–	17.0% minimum
VCA _{mix}	–	Less than VCA _{dry}
Drain down @ production temperature	–	0.30% maximum
Asphalt Binder Content (NJDOT B-5)	±0.15%	6% minimum
Asphalt Binder Content (AASHTO T 308)	±0.40%	6% minimum
Tensile Strength Ratio (AASHTO T 283)	–	80% minimum

902.05.03 Sampling and Testing

THE FOLLOWING IS ADDED TO THE FIRST PARAGRAPH:

Ensure the mix meets the requirements as specified in 902.02.04.A, otherwise the RE or ME will reject the material.

THE SECOND PARAGRAPH IS CHANGED TO:

During production at the plant, the ME will take a sample from each 700 tons of production to verify composition and air voids. Conduct drain down, VCAmix, VCAdry, and VMA testing as directed by the ME. Perform tests according to AASHTO R 46.

THE FOURTH PARAGRAPH IS CHANGED TO:

The ME will perform sampling according to NJDOT B-2 or ASTM D 3665, and will perform testing for composition according to AASHTO T 308, or NJDOT B-5. The ME will determine bulk specific gravity of the compacted sample according to AASHTO T 166 or AASHTO T 331. The ME will use the most current QC maximum specific gravity test result, obtained according to AASHTO T 209, in calculating the volumetric properties of the SMA. Perform testing for drain down according to AASHTO T 305.

902.06.03 Sampling and Testing

THE FOLLOWING IS ADDED TO THE FIRST PARAGRAPH:

Ensure the mix meets the requirements as specified in 902.02.04.A, except that the temperature of the mix at discharge is required to be between 230 °F and 275 °F, otherwise the RE or ME will reject the material.

THE SECOND PARAGRAPH IS CHANGED TO:

During production, the ME will take one random acceptance sample from each 700 tons of production to verify composition. Conduct drain down tests as directed by the ME.

SECTION 903 - CONCRETE

903.02.04 Viscosity Modifying Admixture

THE FIRST SENTENCE IS CHANGED TO:

Use a viscosity-modifying admixture that is listed on the QPL and that, when evaluated according to the test methods and mix design proportions in AASHTO M 194, conforms to the following physical requirements:

903.03.06 Tables

Table 903.03.06-2 Requirements for Structural Concrete Items

THE SEVENTH LINE UNDER CAST-IN-PLACE ITEMS IS CHANGED TO:

Table 903.03.06-2 Requirements for Structural Concrete Items				
	Concrete Class	Slump ¹ (inches)	Percent Air Entrainment for Coarse Aggregate ¹	
			No. 57 & No. 67	No. 8
Decks, Sidewalks, Curbs, Parapets, Concrete Patch	A	3 ± 1	6.0 ± 1.5	7.0 ± 1.5

903.05.04 Control and Acceptance Testing Requirements

THE SUPERScript REFERENCE NO. 4 UNDER TABLE 903.05.04-1 IS CHANGED TO:

4. For chloride permeability testing, the ME will mold four (4) additional cylinders, taking two (2) cylinders each from two (2) randomly selected delivery trucks for testing at 56-days.

THE FOURTH PARAGRAPH IS CHANGED TO:

If, upon testing at 56 days, one (1) or more individual test results exceed 2000 coulombs, the RE may:

1. Require the Contractor remove and replace the defective lot, or
2. Allow the Contractor to submit a corrective action plan for approval.

903.06.02 SCC For Pre-cast Concrete

THE ENTIRE PART B. IS CHANGED TO:

- B. Mix Design and Verification.** Design the mix, as specified in 903.03.02 or 903.05.02, to conform to the strength, water-cement ratio, and air content requirements for the specified class of concrete for the item that is being cast. In addition, ensure the SCC conforms to the requirements specified in Table 903.06.02-1.

Table 903.06.02-1 Requirements for SCC for Pre-cast Concrete

Property	Test Method	Requirement
Slump Flow	NJDOT C-4	16 to 24 inches
Visual Stability Index		
Plastic Concrete	NJDOT C-4	1 maximum
Hardened Concrete	NJDOT C-5	1 maximum

Perform mix design verification as specified in 903.03.02 or 903.05.02. For the verification batch, ensure the air content is in the top half of the allowable range and the slump flow is between 22 and 24 inches. Perform air content, slump flow, and visual stability index (plastic concrete) testing on the verification batch. Make concrete cylinders for compression testing as specified in 903.03.02 or 903.05.02 and make two (2) additional 4 × 8 inch cylinders for visual stability index on the hardened concrete. Saw the additional cylinders length-wise according to NJDOT C-5. The ME will perform the compressive strength testing and the visual evaluation to assign a visual stability index in order to approve the mix.

SECTION 904 - PRE-CAST AND PRE-STRESSED CONCRETE

904.01.01 Component Materials

THE FOLLOWING SENTENCE IS ADDED AT THE END:

For Pre-cast Concrete, the minimum cement content specified in Table 903.03.06-3 is not required for Class A or Class B concrete.

904.01.02 Fabrication

THE ENTIRE SUBPART IS CHANGED TO:

Fabricate pre-cast concrete at a plant as specified in 1011.01 and listed on the QPL.

- 1. Placing Reinforcement Steel.** Before placing the concrete, place reinforcement steel in position as shown on the approved working drawings and as specified in 504.03.01. Firmly tie the reinforcement to prevent displacement during placing of the concrete.
- 2. Placing Concrete.** Place concrete as specified in 504.03.02.B, 504.03.02.C, 504.03.02.D, and 504.03.02.E. Before placing concrete, ensure reinforcement steel and any other embedded materials are free of loose rust, frost, dirt, oil, or contaminants that may prevent a bond with the concrete. Consolidate concrete with internal vibrators. The fabricator may use external vibration to supplement internal vibration. If using SCC, minimize or eliminate the use of vibrators to prevent segregation.

904.01.06 Quality Control and Acceptance Requirements

THE FOLLOWING IS ADDED AFTER THE SECOND PARAGRAPH:

Follow the Department approved Buy America Compliance Plan. Provide documentation of compliance when requested by the ME.

904.02.01 Component Materials

THE FOLLOWING SENTENCE IS ADDED AT THE END:

For Pre-cast Concrete, the minimum cement content specified in Table 903.03.06-3 is not required for Class A or Class B concrete.

904.02.02 Fabrication

THE FIRST SENTENCE IN THE FIRST PARAGRAPH IS CHANGED TO:

1. Place concrete as specified in 504.03.02.C, 504.03.02.D, and 504.03.02.E.

THE SECOND SENTENCES IN THE FIRST PARAGRAPH IS CHANGED TO:

Fabricate pre-cast concrete at a plant as specified in 1011.01 and listed on the QPL.

904.02.06 Quality Control and Acceptance Requirements

THE FOLLOWING IS ADDED AFTER THE SECOND PARAGRAPH:

Follow the Department approved Buy America Compliance Plan. Provide documentation of compliance when requested by the ME.

STEP 2 IN THE THIRD PARAGRAPH IS CHANGED TO:

2. Dimensions not conforming to the tolerances specified in Table 904.02.02-1.

904.03.01 Component Materials

THE FOLLOWING IS ADDED AT THE END:

For Pre-cast Concrete, the minimum cement content specified in Table 903.03.06-3 is not required for Class A or Class B concrete.

904.03.02 Fabrication

THE FIRST SENTENCE IN THE FIRST PARAGRAPH IS CHANGED TO:

Fabricate pre-cast concrete at a plant as specified in 1011.01 and listed on the QPL.

2. **Placing Concrete.**

THE FIRST SENTENCE IN THE FIRST PARAGRAPH IS CHANGED TO:

Place concrete as specified in 504.03.02.B, 504.03.02.C, 504.03.02.D, and 504.03.02.E.

904.03.06 Quality Control and Acceptance Requirements

THE FOLLOWING IS ADDED AFTER THE SECOND PARAGRAPH:

Follow the Department approved Buy America Compliance Plan. Provide documentation of compliance when requested by the ME.

THE FOLLOWING IS ADDED AFTER THE LAST PARAGRAPH:

If the ME does not inspect the pre-cast concrete item, submit certifications of compliance as specified in 106.07.

904.04.02 Fabrication

THE FIRST SENTENCE IN THE FIRST PARAGRAPH IS CHANGED TO:

Fabricate pre-stressed concrete at a plant as specified in 1011.02 and listed on the QPL.

3. **Placing Concrete.**

THE SECOND SENTENCE IN THE FIRST PARAGRAPH IS CHANGED TO:

Place concrete as specified in 504.03.02.B, 504.03.02.C, 504.03.02.D, and 504.03.02.E.

904.04.06 Quality Control, Quality Assurance, and Acceptance Requirements

THE FOLLOWING IS ADDED AFTER THE SECOND PARAGRAPH:

Follow the Department approved Buy America Compliance Plan. Provide documentation of compliance when requested by the ME.

THE FOLLOWING IS ADDED AFTER THE LAST PARAGRAPH:

If the ME does not inspect the pre-cast concrete item, submit certifications of compliance as specified in 106.07.

SECTION 911 - SIGNS, SIGN SUPPORTS, AND DELINEATORS

911.02.03 Non-Breakaway Sign Supports for Ground Mounted Signs

THE LAST SENTENCE OF THE SECOND PARAGRAPH IS CHANGED TO:

Tie-wrap posts during shipment and handling to protect the finish.

911.03 FLEXIBLE DELINEATORS

1. Delineator Dimensions.

b. Guide Rail Mounted.

THE ENTIRE TEXT IS CHANGED TO:

Ensure the unit for beam guide rail mounted flexible delineators has a minimum width of three (3) inches and a minimum thickness of 0.100 inch. Use units of a height that will ensure the top of the reflective area is 5 ± 2 inches above the top of post.

Design the base of the unit to mount over the I-beam blockout or to the top of a wood or synthetic blockout, of the beam guide rail.

THE FOLLOWING IS ADDED:

- d. **Construction Barrier Curb Mounted.** For construction barrier curb top mounted flexible delineators, use a delineator that is 6 x 12 inches with a minimum thickness of 0.100 inch. For construction barrier curb side mounted flexible delineators, use a delineator that is 3-1/2 x 3-1/2 inches with a minimum thickness of 0.100 inch, and that has a base that forms a “T” shape with the panel for mounting on the barrier curb and is flexible or hinged so as to return to its original position after being struck.

THE FOLLOWING IS ADDED:

- d. **Construction Barrier Curb Mounted.** Ensure the sheeting for top mounted flexible delineators is 6 x 12 inches and the sheeting for side mounted flexible delineators is 3-1/2 x 3-1/2 inches.

Submit a certification of compliance, as specified in [106.07](#), for delineators.

SECTION 912 - PAINTING, COATINGS, TRAFFIC STRIPES AND TRAFFIC MARKINGS

912.03.01 Epoxy Traffic Stripes

B. Glass Beads.

THE FIRST PARAGRAPH IS CHANGED TO:

Submit certifications of compliance as specified in 106.07 for each lot of glass beads used on the Contract. For each lot of glass beads, submit test results indicating the parts per million of lead, antimony and arsenic as determined by testing according to Environmental Protection Agency testing method 3052 and testing method 6010B or 6010C. Ensure glass beads do not contain more than 200 ppm of lead, 200 ppm of antimony, or 100 ppm of arsenic.

912.03.02 Thermoplastic Traffic Markings

THE SUB-SECTION SHALL BE REVISED AS FOLLOWS:

For traffic markings, use either preformed or hot extruded thermoplastic conforming to AASHTO M 249, except that for preformed thermoplastic, the minimum thickness requirement is 90 mils. Use beads conforming to AASHTO M 247, Type 1, with a moisture resistant coating. Ensure glass beads do not contain more than 200 ppm of lead, 200 ppm of antimony, or 100 ppm of arsenic.

Submit certifications of compliance, as specified in 106.07, for each batch of materials used on the Contract. For each lot of glass beads, submit test results indicating the parts per million of lead, antimony and arsenic as determined by testing according to Environmental Protection Agency testing method 3052 and testing method 6010B or 6010C.

Thermoplastic for long-life traffic markings shall be hot extruded material. Thermoplastic material shall be applied to the road surface in a molten state by the ***Ribbon/Extrude Method***, whereby, the suspended extrusion die has multi (four) sided control of the flow and shape of the materials. The thermoplastic shall conform to the requirements of AASHTO M 249, except as follows:

1. All thermoplastic material shall be applied at a ***thickness of 125 mils***.
2. For white, the composition of the mixture shall be as follows:

Component	Percent by weight
Resin/Binder	22-26 percent
Glass Beads (pre-mix)	30 percent minimum
White Pigment	10 percent minimum
Calcium Carbonate and Inert Fillers (shall not contain silica other than as glass beads)	34-38 percent

3. Only yellow non-lead formulas shall be used, the composition of the mixture shall be as follows:

Component	Percent by weight
Resin/Binder	22-26 percent
Glass Beads (pre-mix)	30 percent minimum
Yellow Pigment	2 percent minimum
Calcium Carbonate and Inert Fillers (shall not contain silica other than as glass beads)	42-46 percent

The yellow material's combined totals of lead, cadmium, mercury, and hexavalent chromium shall not exceed 100 parts per million. *The thermoplastic manufacturer shall certify, according to Sub-section 106.04, that the material will meet the requirements specified.*

The material, when formed into traffic stripes & markings, shall be readily renewable by placing an overlay of new material directly upon an existing line of the same material. Such new material shall bond itself to the existing line in such a manner to avoid splitting and or separation. *The thermoplastic material shall not deteriorate on contact with the following: Sodium Chloride, Calcium Chloride, or other de-icing chemicals; oil contents of paving materials and or vehicles.*

912.04 TEMPORARY TRAFFIC STRIPES AND MARKINGS

912.04 Latex Paint

THE FOLLOWING SHALL BE ADDED TO THE BEGINNING OF THIS SUB PART:

Latex Traffic Paint shall only be utilized and accepted for use as temporary striping & marking of milled surfaces. All other striping & markings shall conform to Sub-sections 912.10.C, as amended herein. Temporary traffic marking tape may also be used; however, product will require approval of the Engineer, prior to any use.

912.04.01 Latex Paint

THE ENTIRE SUBPART TEXT IS CHANGED TO:

For temporary traffic stripes, use latex traffic paint that is a fast-drying white, or non-lead yellow, ready-mixed pigmented binder emulsified in water and capable of anchoring reflective glass beads that are separately applied. Ensure the color matches FED-STD-595B color chip No. 33538 for yellow and No. 37886 for white. Ensure the paint has a maximum no-track time of 120 seconds when applied in a wet film thickness of 15 ± 1 mil, at 140 °F, and with 12 pounds per gallon of glass beads. In addition, ensure the finished product meets the following:

1. Volume of solids is a minimum 61 percent.
2. Total solids are a minimum of 77.5 percent total non-volatiles by weight, when tested according to ASTM D 2369.
3. Weight per gallon is a minimum 14 ± 0.2 pounds per gallon for each color.
4. Hegman Grind is a minimum of 2 Hegman when tested according to ASTM D 1210.
5. Viscosity is between 70 and 95 Krebs Units at 77 °F, when tested according to ASTM D 562.

Use glass beads conforming to AASHTO M247, Type 1, with a moisture resistance coating. Ensure glass beads do not contain more than 200 ppm of lead, 200 ppm of antimony, or 100 ppm of arsenic.

Submit a certification of compliance, as specified in 106.07, for latex and glass beads. For each lot of glass beads, submit test results indicating the parts per million of lead, antimony and arsenic as determined by testing according to Environmental Protection Agency testing method 3052 and testing method 6010B or 6010C.

SECTION 913 - GUIDE RAIL, FENCING, RAILING AND BOX BEAM

913.01.01 Rail Element

THE SECOND PARAGRAPH IS CHANGED TO:

Submit a certification of compliance as specified in 106.07.

913.01.02 End Treatments

THE SECOND PARAGRAPH IS CHANGED TO:

Submit a certification of compliance as specified in 106.07.

913.01.03 Posts and Blockouts

THE FOURTH PARAGRAPH IS CHANGED TO:

Provide certifications of compliance, as specified in 106.07.

913.01.04 Rub Rail

THE SECOND PARAGRAPH IS CHANGED TO:

Submit a certification of compliance as specified in 106.07.

913.01.05 Miscellaneous Hardware

SUBPART 3 OF THE FIRST PARAGRAPH IS CHANGED TO:

3. Use plates for guide rail on bridges and buried guide rail terminals conforming to ASTM A 36 and galvanized according to ASTM A 123.

THE SECOND PARAGRAPH IS CHANGED TO:

Submit a certification of compliance as specified in 106.07. The ME may randomly inspect hardware for quality assurance.

THE FOLLOWING SUBSECTIONS IS ADDED:

913.04 BOX BEAM FOR CONSTRUCTION BARRIER CURB.

Ensure the box beam is made of cold-formed welded and seamless structural tubing. Ensure the box beam conforms to ASTM A500, Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes, Grade B.

Ensure the box beam is tested in accordance with ASTM E436 on a 2 x 9 inch galvanized specimen at -0.4°F and provide certified test result to the ME.

The Department will reject the material if the average percent shear area falls below 50.

Ensure the identification number/information is placed on the material at an interval of four (4) feet or less.

Ensure the box beam is galvanized in accordance with ASTM A123. Fasteners are galvanized and conform to the following unless specified otherwise in the contract documents: Bolts ASTM A307 Grade A, nuts ASTM A563 Grade A or better, and washers ASTM F844.

SECTION 1001 - TRAFFIC CONTROL EQUIPMENT

THE FOLLOWING SUBSECTION IS ADDED:

1001.04 PORTABLE VARIABLE MESSAGE SIGN WITH REMOTE COMMUNICATION

THE ENTIRE SUBSECTION IS CHANGED TO:

Provide a NTCIP compliant portable variable message sign as described under [1001.02](#) with the exceptions noted below and each equipped with broadband cellular modem.

Ensure the sign panel is color full matrix model that displays a combination of letters and graphic images.

Ensure the sign panel is capable of displaying three lines of text with variable size characters.

Ensure nine characters are displayed per line for posting travel times. For this nine-character requirement, smaller size characters may be allowed that meets MUTCD guidelines.

Ensure the panel is also capable of displaying eight (8) characters per line with a minimum character height of eighteen (18) inches.

Ensure the PVMSRC can be integrated with the Department's central DMS control software for remote operation.

1001.05 PORTABLE TRAILER MOUNTED CCTV CAMERA ASSEMBLY

Provide a Portable Trailer Mounted CCTV Camera Assembly (PTMCCA) with the following:

A. Trailer Platform

1. Maximum size, including tongue, 14 feet long by 7 feet wide by 8 feet high.
2. NJDOT approved lighting package to include electrical brake and marker lights with wire connections.
3. Primed and painted with powder coated orange color.
4. Fitted with manual telescoping outriggers with adjustable jacks sized to counter full mast extension.
5. Four 3500 pounds, drop leg, top wind screw jacks.
6. All equipment secured to prevent theft or separation from platform.
7. 24/7 operation in all weather conditions.
8. One locking NEMA-4 equipment box for operational controls.
9. Removable wheels (with wheel locks) when trailer is in deployed position.
10. Operation manual with a copy placed in the storage bin.

B. Mast

1. 150 pounds payload capacity.
2. 29 feet to 32 feet of extension with capability to mount antenna at 20 feet, 25 feet or at the top, 10 feet maximum nested length of mast - 3 to 9 sections.
3. Un-guyed.
4. Driven by galvanized steel cable.

5. Spiral conduit for cables.
6. Compactly retractable when nested into storage container at the bottom & foldable for easy transport.
7. Operated by a power winch with a safety brake.
8. Capable of being raised or lowered during sustained wind speeds of 30 miles per hour.

C. Power Source

Equip the PTMCCA with either a diesel charged or a solar-charged battery system. Ensure the PTMCCA is also capable of operating on 120-volt AC electrical service. The Department may require a solar-charged battery system in noise sensitive areas. Provide the power with a battery backup system capable of providing continuous operation when the primary power source fails. Ensure the power source meets the following requirements:

1. Diesel. Ensure the fuel tank is capable of operating the sign for a period of 72 hours without refueling. Equip with an exhaust muffler and a United States Department of Forestry approved spark arrester. Ensure the engine is shock mounted to reduce vibration and locked in a ventilated enclosure.
2. Solar. Provide solar panels capable of recharging the batteries at a rate of four (4) hours of sun for 24 hours of camera usage. Ensure the battery capacity is capable of operating the sign for a period of 18 days without sunlight.

D. Electronics

1. Cellular (CDMA), microwave, or 802.11 bandwidth option.
2. Work lights in all cabinets.
3. Remote trailer diagnostics (battery level, charging output, etc.).

E. Camera and Software

Ensure the camera has the following characteristics:

1. Dome Camera in a heavy-duty plastic dome or with a weather resistant case.
2. Impact resistant viewing window.
3. Minimum resolution of NTSC 704 (H) x 480 (V).
4. Backlight compensation.
5. Image stabilization.
6. Light Sensitivity 0.02 lux NIR Mode.
7. Auto Focus with Manual Focus capability.
8. Auto White Balance with Manual White Balance capability.
9. Motorized Zoom up to 16x optical, 10x digital.
10. Motorized Pan-Tilt, pan 360°, tilt 180°.
11. Thermostatically controlled heater and defroster -50° to 140°F operating range.
12. Windshield wiper.
13. 24/7 operation in all weather conditions.
14. Time and date stamp.

Ensure the software provides the following functionality:

1. Remote control of pan, tilt and zoom.
2. Display of streaming video in MPEG format, motion-JPEG, and single snapshot JPEG images, remotely interchangeable by using central software.
3. Preset controls of pan/tilt/zoom combinations. Ensure all presets are accessible from a drop-down menu with descriptive name of preset. Set first eight (8) presets with quick-launch icons with graphical representation of the preset views.
4. Display of all the project's web cams in a single view screen.
5. Display of local time and weather conditions, including temperature and humidity.
6. Saving images and sending e-mail images.
7. Viewing archived images via a graphical calendar control and storing archived images at least every five minutes.
8. Three levels of password protection: administrator, user, and guest, individual user accounts.
9. Monitoring and controlling the cameras using web access.

SECTION 1009 - HMA PLANT EQUIPMENT

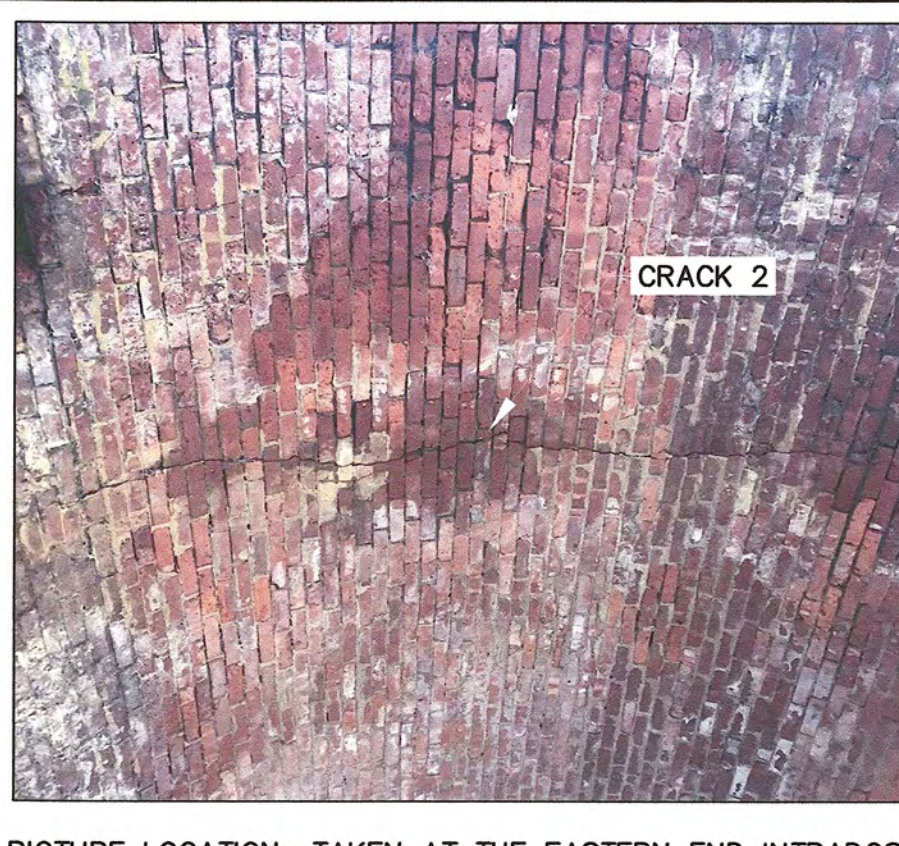
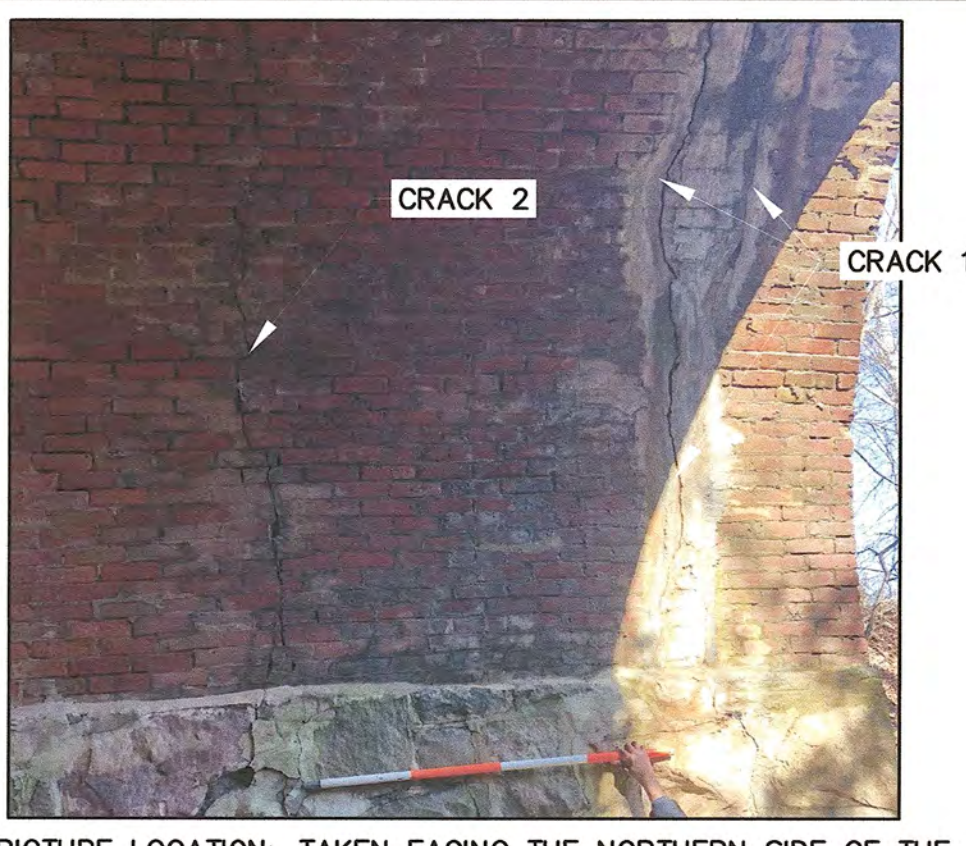
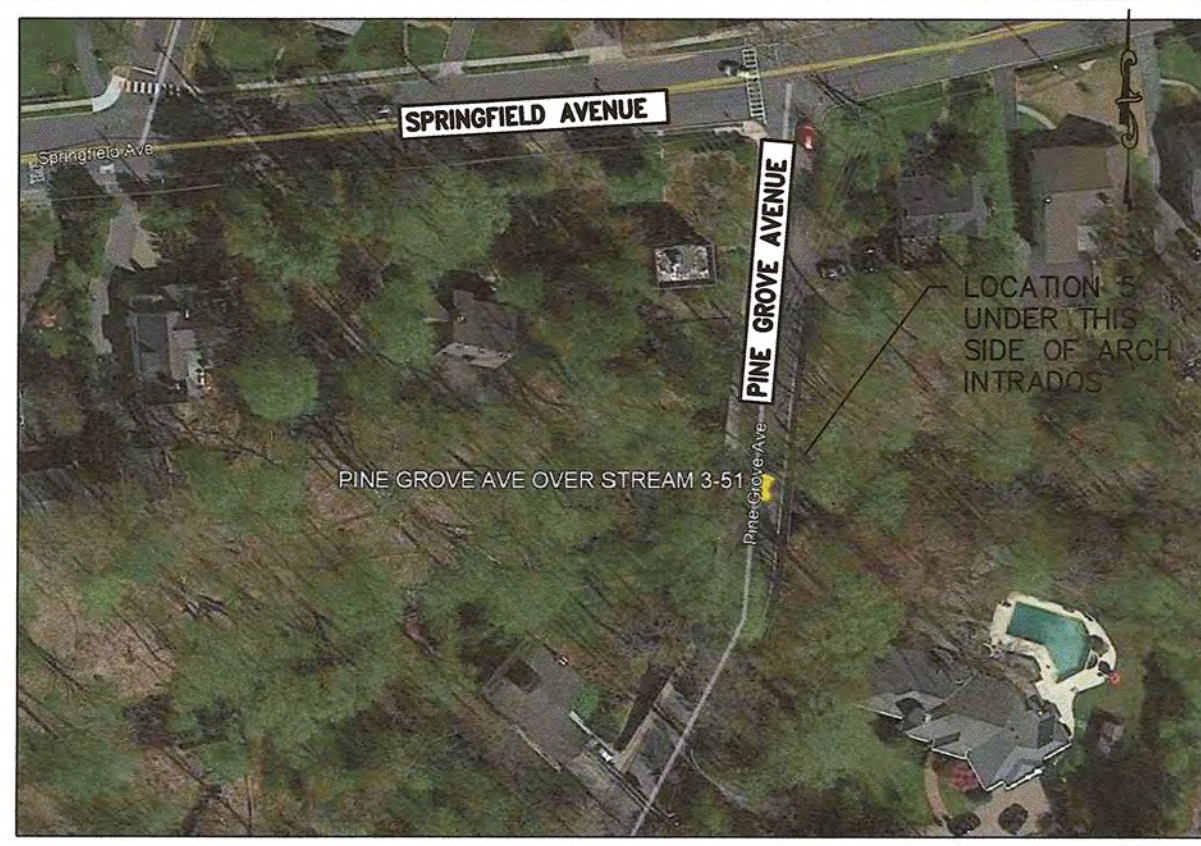
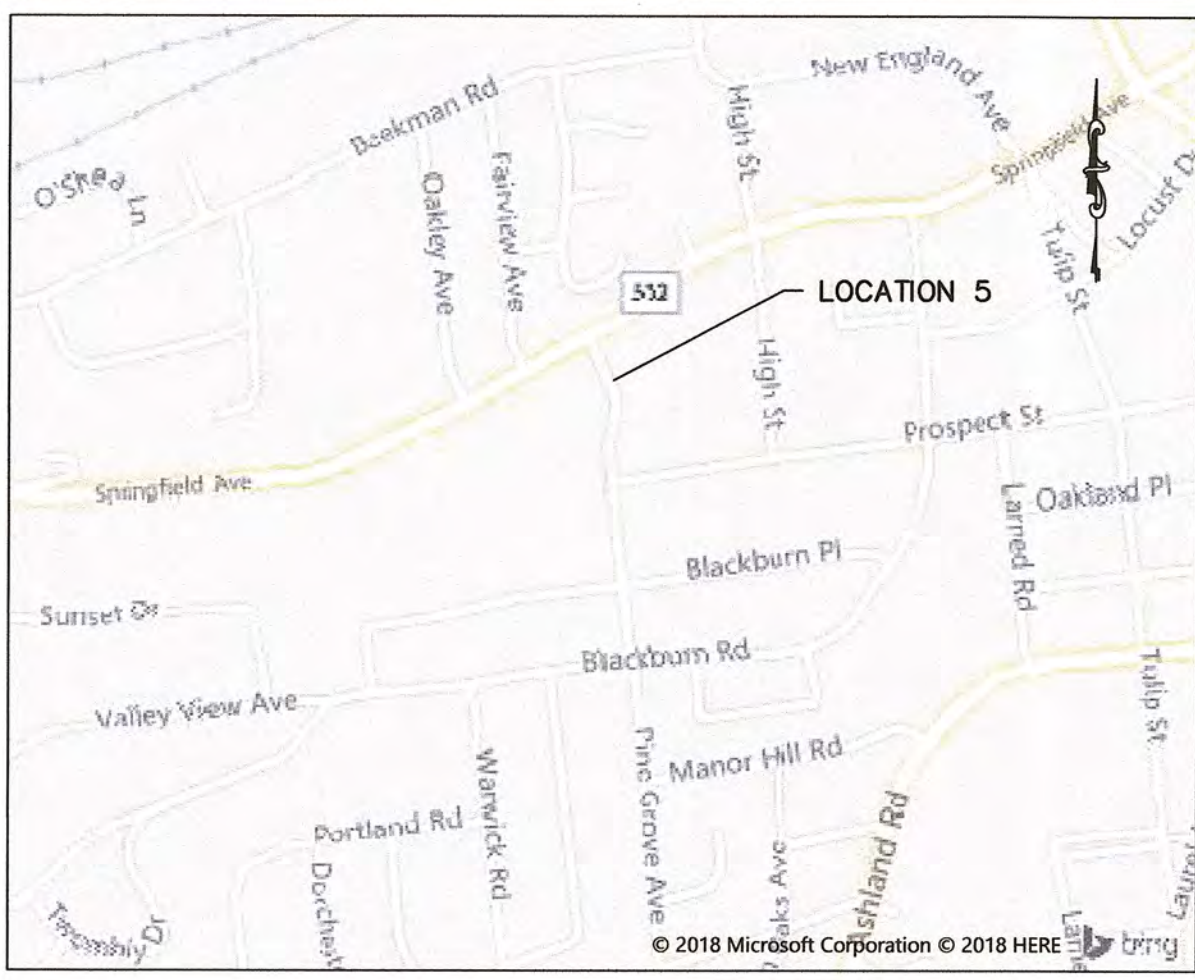
1009.01 HMA PLANT

A. Requirements for HMA Mixing Plants.

THE FOLLOWING IS ADDED AFTER THE SECOND PARAGRAPH:

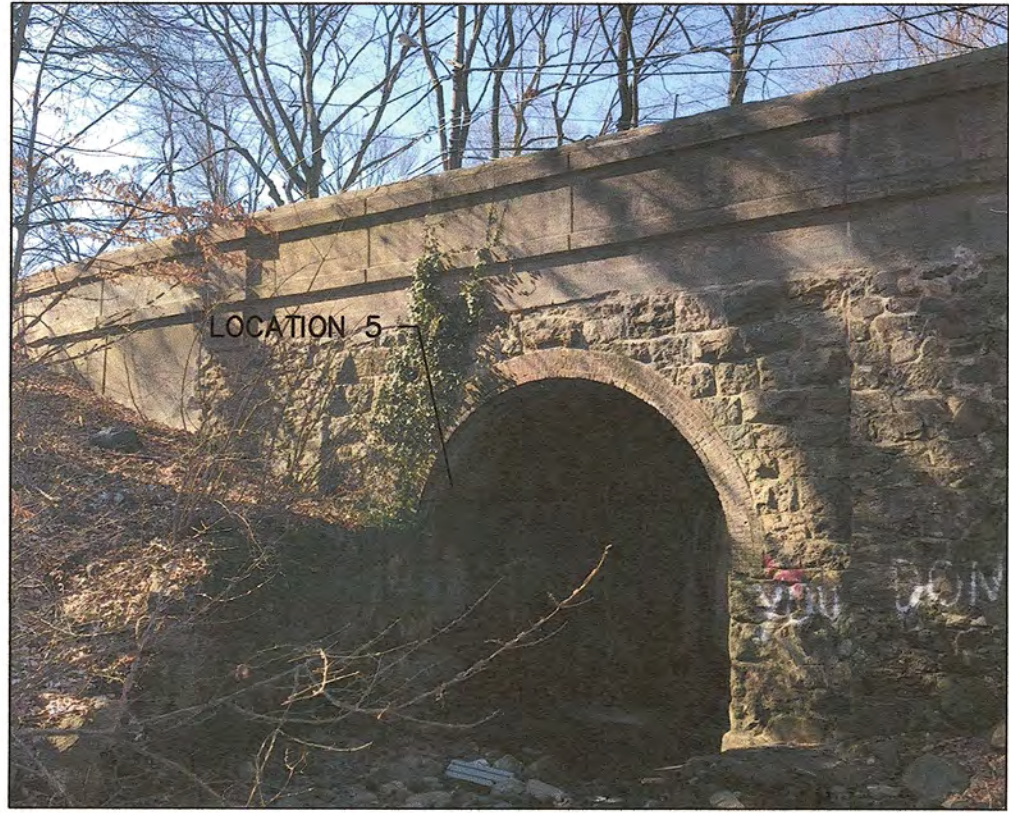
The HMA producer is required to have a quality control (QC) program plan approved annually by the ME as per Materials Approval Procedure MAP-102. The HMA producer is required to ensure the QC plan conforms to the requirements outlined in the report entitled "Hot Mix Asphalt Quality Control Program Plan" prepared by the Department of Transportation and New Jersey Asphalt Paving Association. Failure to follow these requirements will result in rejection of HMA materials supplied by the HMA producer and removal of the HMA supplier from the QPL.

END TECHNICAL SPECIFICATIONS

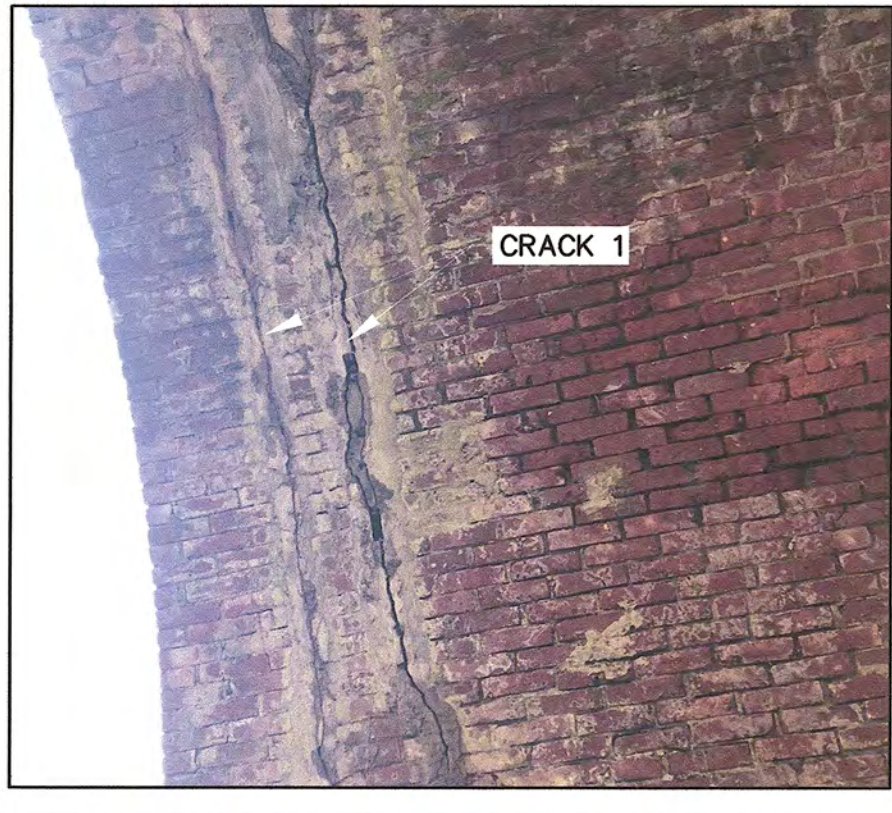


PICTURE LOCATION: TAKEN FACING THE NORTHERN SIDE OF THE EASTERN END OF THE ARCH INTRADOS.

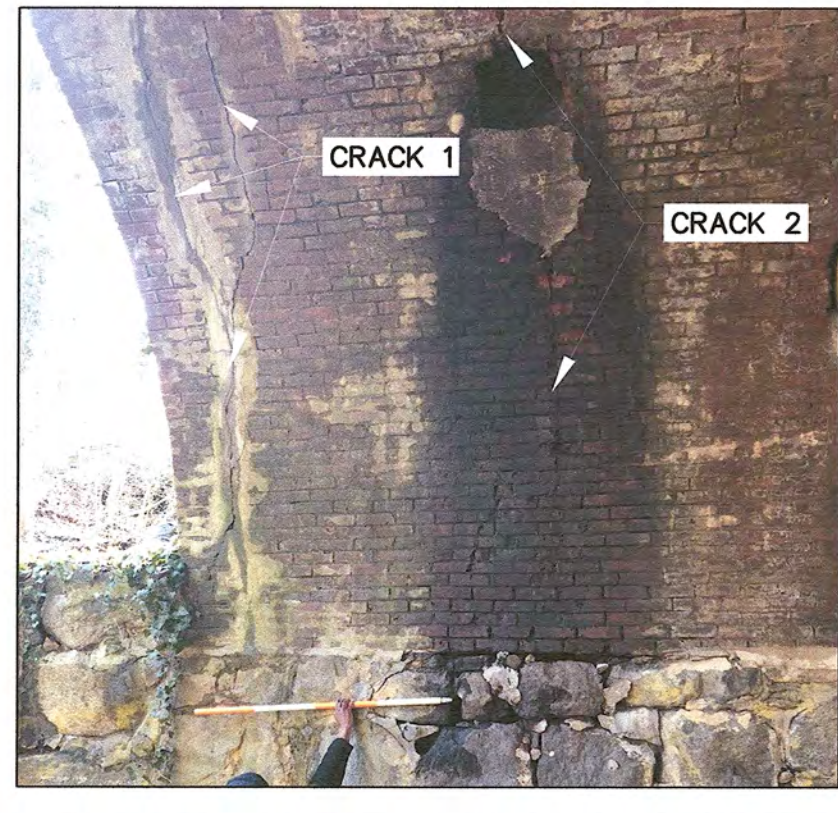
PICTURE LOCATION: TAKEN AT THE EASTERN END INTRADOS LOOKING DIRECTLY UP AT CRACK 1.



PICTURE LOCATION: FACING EAST END ARCH INTRADOS. AREA OF REPAIR LOCATED JUST PAST THIS ENTRANCE.



PICTURE LOCATION: LOOKING UP APPROXIMATELY 45 DEGREES TOWARD THE SKY WHILE FACING THE SOUTHERN SIDE OF THE EASTERN END OF THE ARCH INTRADOS.



PICTURE LOCATION: TAKEN STRAIGHT ON WHILE FACING THE SOUTHERN SIDE OF THE EASTERN END OF THE ARCH INTRADOS.

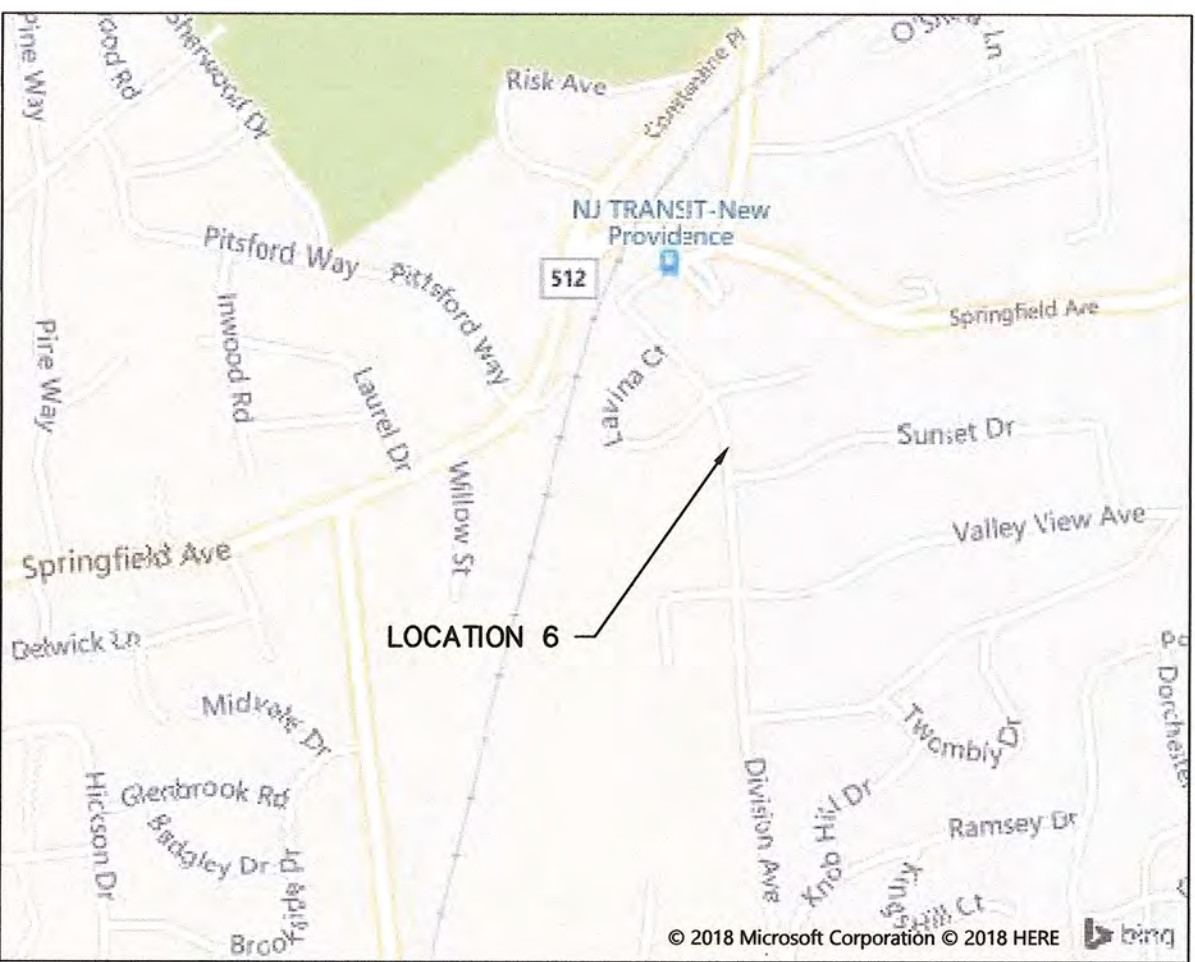
DESCRIPTION OF WORK:
REMOVE & REPLACE LOOSE BRICKS ADJACENT TO THE CRACKS WITH NEW BRICKS OF SIMILAR COLOR. FILL THE FULL DEPTH OF THE LARGE VOIDS ADJACENT TO THE WIDE LONGITUDINAL CRACKS WITH ADHESIVE, NON-SHRINKING INJECTED CRACK REPAIR MATERIAL.

NOTE:
THE EXTENT OF MASONRY REPOINTING IS TO BE DETERMINED IN THE FIELD BY THE RE.

TO BE CONSTRUCTED - LOCATION 5				
ITEM #	DESCRIPTION	UNITS	PLAN QUANTITY	AS-BUILT QUANTITY
4	PRESSURE INJECTION, CONCRETE CRACKS	LF	180	
28	MASONRY REPOINTING	SF	100	

LOCATION 5 - STRUCTURE #2018083 - PINE GROVE AVENUE OVER STREAM 3-51 - CITY OF SUMMIT

N.T.S



PICTURE LOCATION: TAKEN UPSTREAM FACING DOWNSTREAM WHERE DEBRIS BUILDS UP AT UTILITY PIPE CROSSING.



PICTURE LOCATION: TAKEN UPSTREAM FACING DOWNSTREAM. PICTURE SHOWS LOCATION OF DEBRIS BUILDUP LOCATION IN RELATION TO BRIDGE WALL.



IMAGE SHOWS THE DEBRIS BUILD UP LOOKING EAST (DOWN STREAM) AT THE NORTHERN ABUTMENT.

DESCRIPTION OF WORK:
AT DIRECTION OF THE RESIDENT ENGINEER, REMOVE THE BUILT UP DEBRIS CONSISTING OF RIVER ROCK, STONE, BRANCHES, ETC.

TO BE CONSTRUCTED - LOCATION 6				
ITEM #	DESCRIPTION	UNITS	PLAN QUANTITY	AS-BUILT QUANTITY
27	DEBRIS REMOVAL	CY	6	

LOCATION 6 - STRUCTURE #2011055 - DIVISION AVENUE OVER SALT BROOK - CITY OF SUMMIT

N.T.S

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232 KINGS HIGHWAY EAST
HADDONFIELD, NJ 08033
(856) 795-9595, FAX (856) 795-1882
WEB SITE ADDRESS : WWW.RVE.COM
Certification of Authorization: 24 GA 28003300
—ENGINEERING EXCELLENCE—

DATE: 2-10-19
FRANK J. SENEY JR.
NJ PROFESSIONAL ENGINEER LIC. No. 35321

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

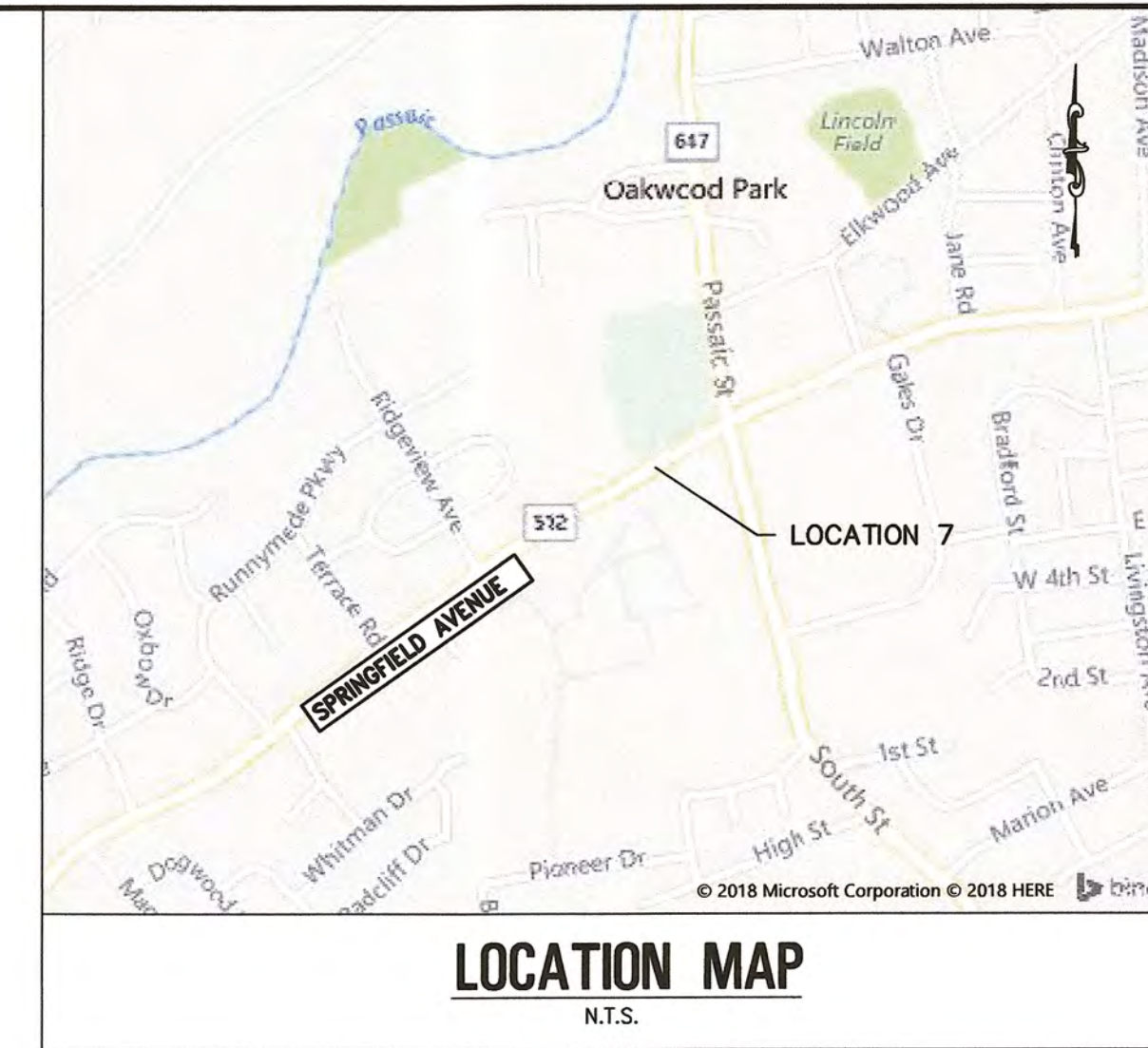
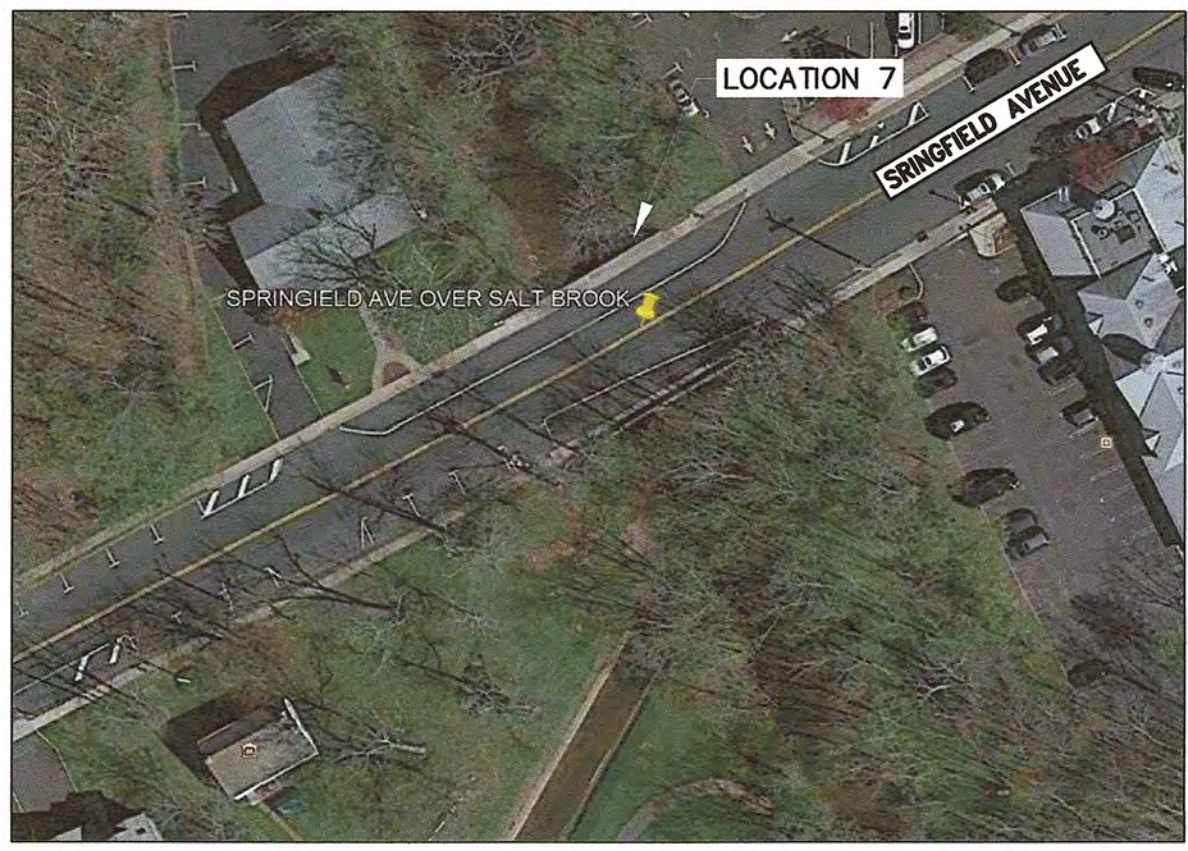
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UNION COUNTY
UNION COUNTY
NEW JERSEY
CONSTRUCTION PLAN - LOCATIONS 5 & 6
2018 BRIDGE IMPROVEMENT PROGRAM
VARIOUS MUNICIPALITIES

DRAWN BY: C.O.G./E.V.O. DESIGNER: F.J.S. CHECKED BY: SCALE: AS NOTED
DATE: FEBRUARY 2019 SHEET No.: 7 of 28
JOB No.: 2000F012

CP-3
CP-21



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Certification of Authorization: 24 GA 28003300
ENGINEERING EXCELLENCE™

DATE: 4.10.19
FRANK J. SENEY JR.
NJ PROFESSIONAL ENGINEER LIC. No. 36321

DESCRIPTION OF WORK:
REMOVE & REPLACE THE DAMAGED SECTION OF RCP.
STABILIZE THE ERODED EMBANKMENT WITH FILL MATERIAL AND RIP-RAP



TO BE CONSTRUCTED - LOCATION 7

ITEM #	DESCRIPTION	UNITS	PLAN QUANTITY	AS-BUILT QUANTITY
13	18" REINFORCED CONCRETE PIPE, CLASS V	LF	8	
24	RIPRAP STONE PROTECTION, 24" THICK (D50 = 12")	SY	4	
25	I-13 SOIL AGGREGATE	CY	4	

PICTURE LOCATION: NORTHEAST EMBANKMENT LOOKING SOUTHEAST AT BROKEN PIPE SECTION APPROXIMATELY 6' FROM NORTHERN ABUTMENT.

PICTURE SHOWS BROKEN 24" RCP PIPE SECTION AND EMBANKMENT EROSION.

PICTURE SHOWS EXTENTS OF AREA WHERE RIP RAP IS TO BE PLACED TO PREVENT FURTHER EROSION.

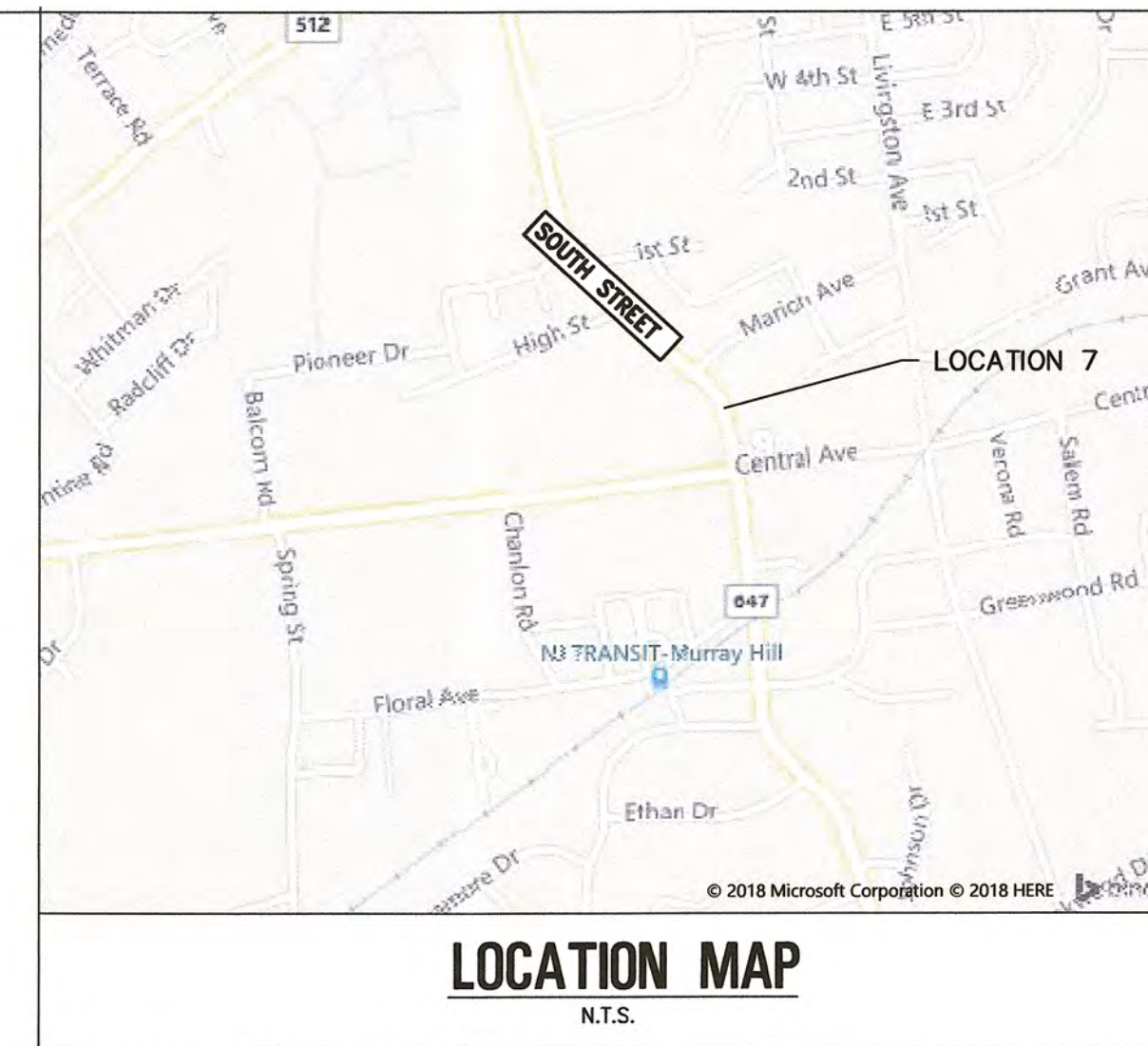
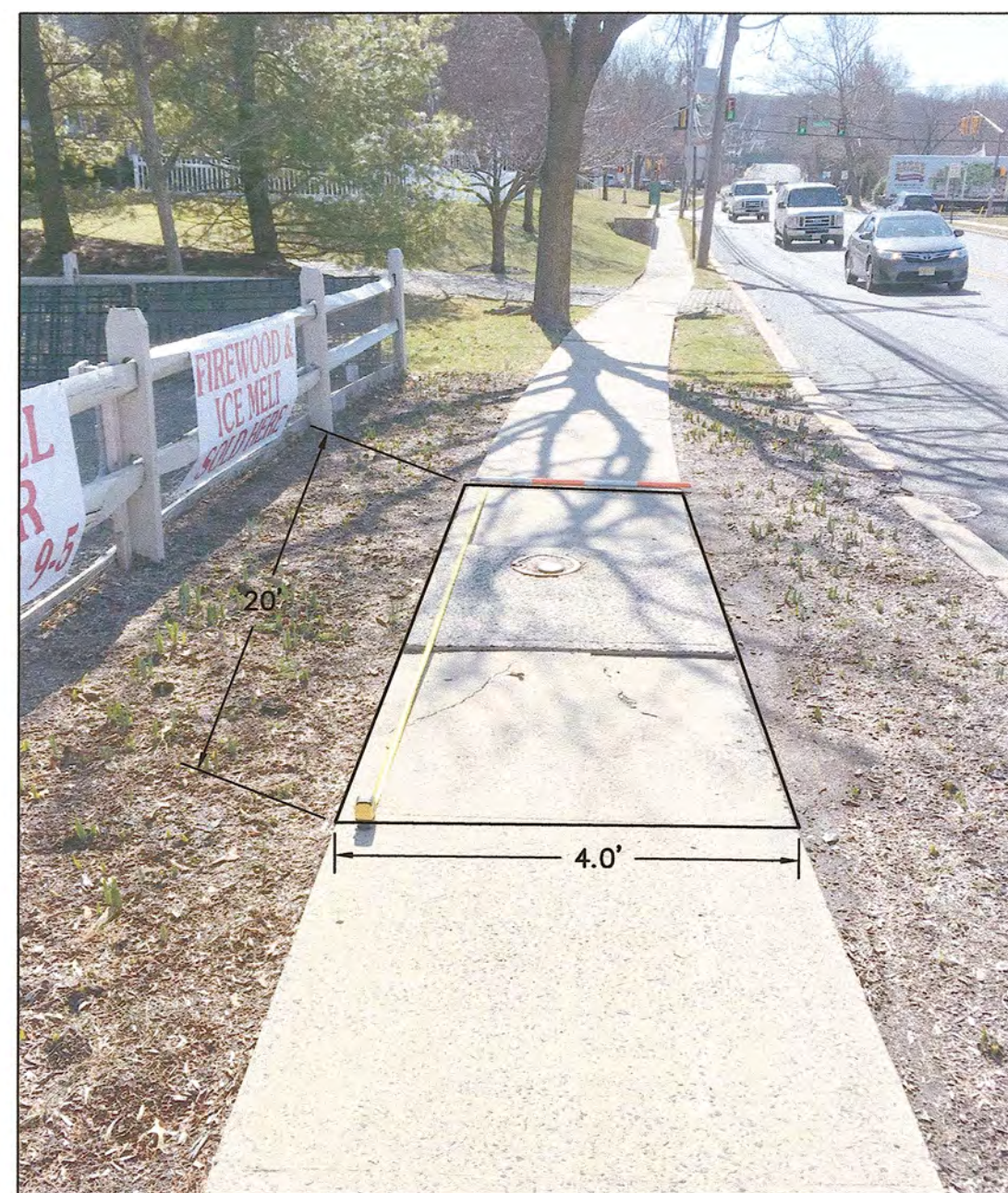
LOCATION 7 - STRUCTURE #2011047 - SPRINGFIELD AVENUE OVER SALT BROOK - BOROUGH OF NEW PROVIDENCE
N.T.S.

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PICTURE LOCATION: TAKEN FROM THE WEST SIDE OF THE BRIDGE, LOOKING NORTHEAST.



NO.	REVISION	DATE	BY



IMAGE SHOWS WATER METER LOCATED WITHIN SIDEWALK EXTENTS TO BE REPLACED.

DESCRIPTION OF WORK:
REMOVE AND REPLACE CONCRETE SIDEWALK, 4" THICK. RESET WATER VALVE IN SIDEWALK. RESTORE ADJACENT VEGETATIVE AREA TO EQUAL OR BETTER CONDITION.

TO BE CONSTRUCTED - LOCATION 8

ITEM #	DESCRIPTION	UNITS	PLAN QUANTITY	AS-BUILT QUANTITY
11	CONCRETE SIDEWALK, 4" THICK	SY	9	
22	TOPSOILING, 4" THICK	SY	9	
23	FERTILIZING & SEEDING, TYPE A-3	SY	9	



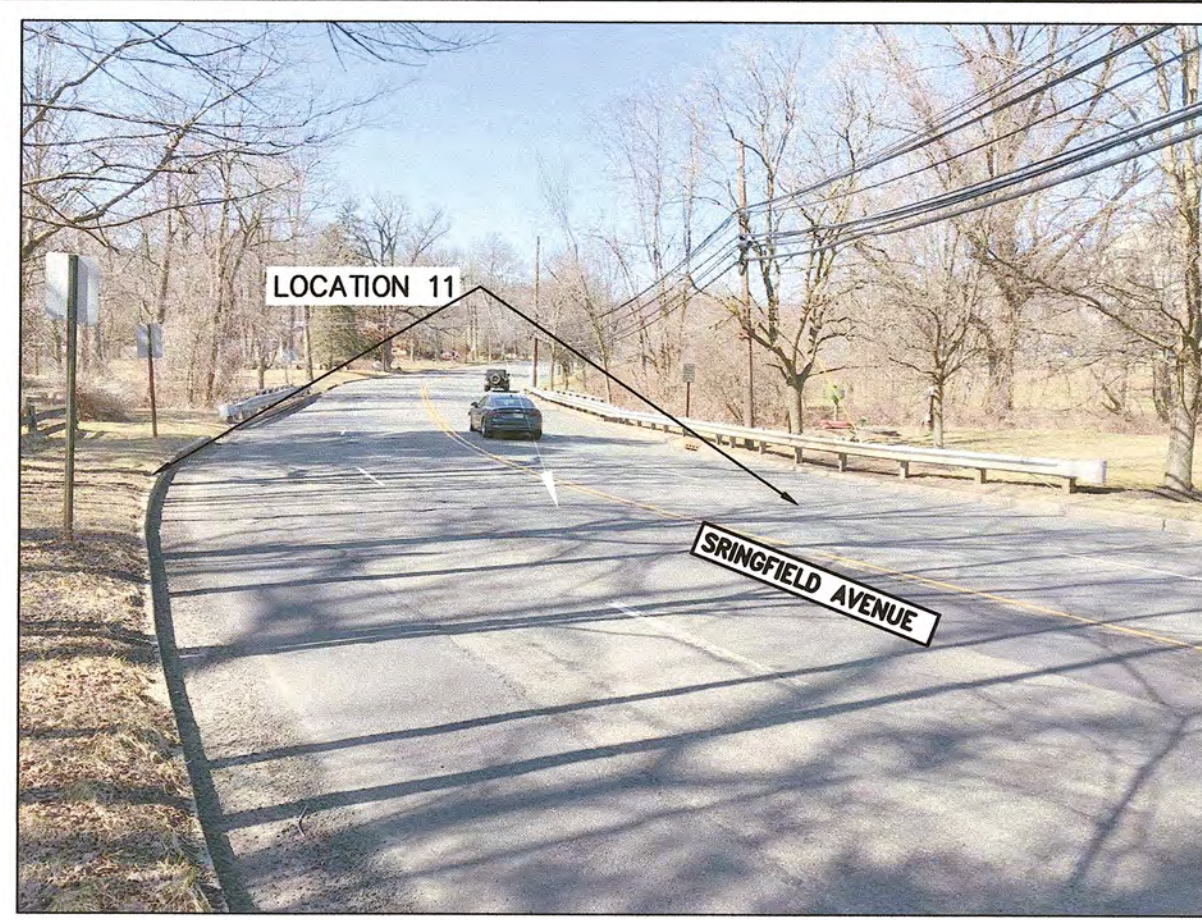
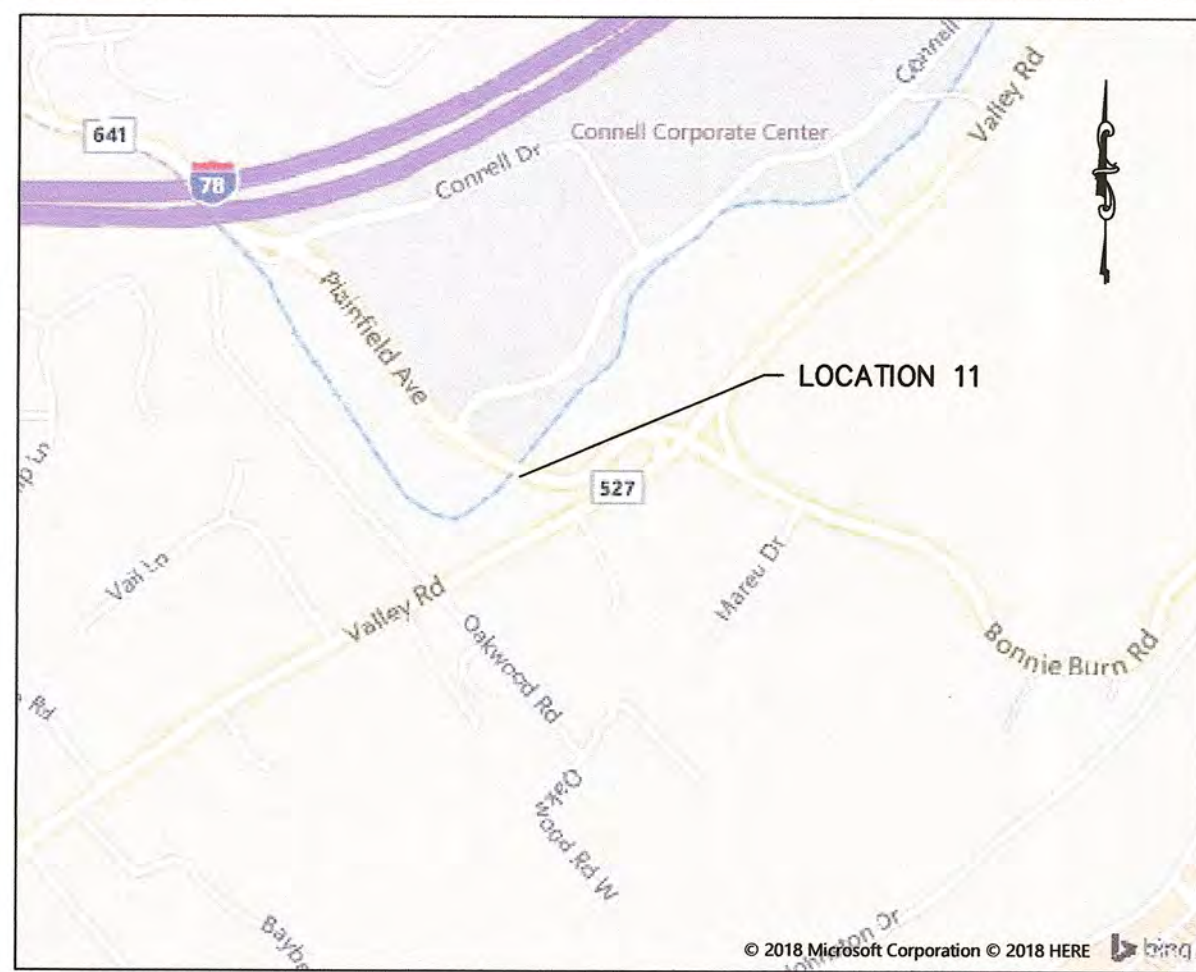
PICTURE LOCATION: TAKEN FROM THE NORTH BRIDGE ABUTMENT, LOOKING SOUTH

LOCATION 8 - STRUCTURE #2011039 - SOUTH STREET OVER CENTRAL BRANCH OF SALT BROOK - BOROUGH OF NEW PROVIDENCE
N.T.S.

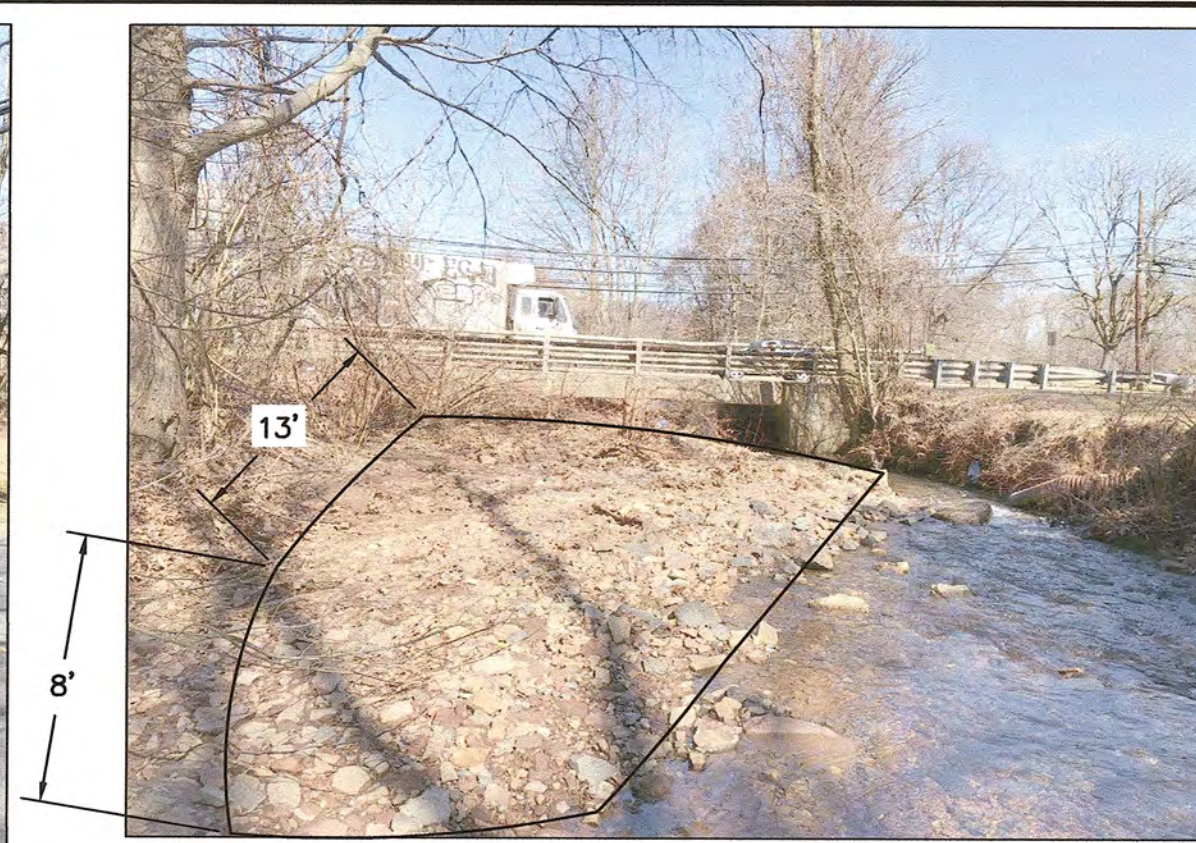
CONSTRUCTION PLAN - LOCATIONS 7 & 8
UNION COUNTY
2018 BRIDGE IMPROVEMENT PROGRAM
UNION COUNTY
VARIOUS MUNICIPALITIES
NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
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DATE: FEBRUARY 2019		SHEET No.: 8 of 28	
JOB No.: 2000F012			

CP-4
CP-21



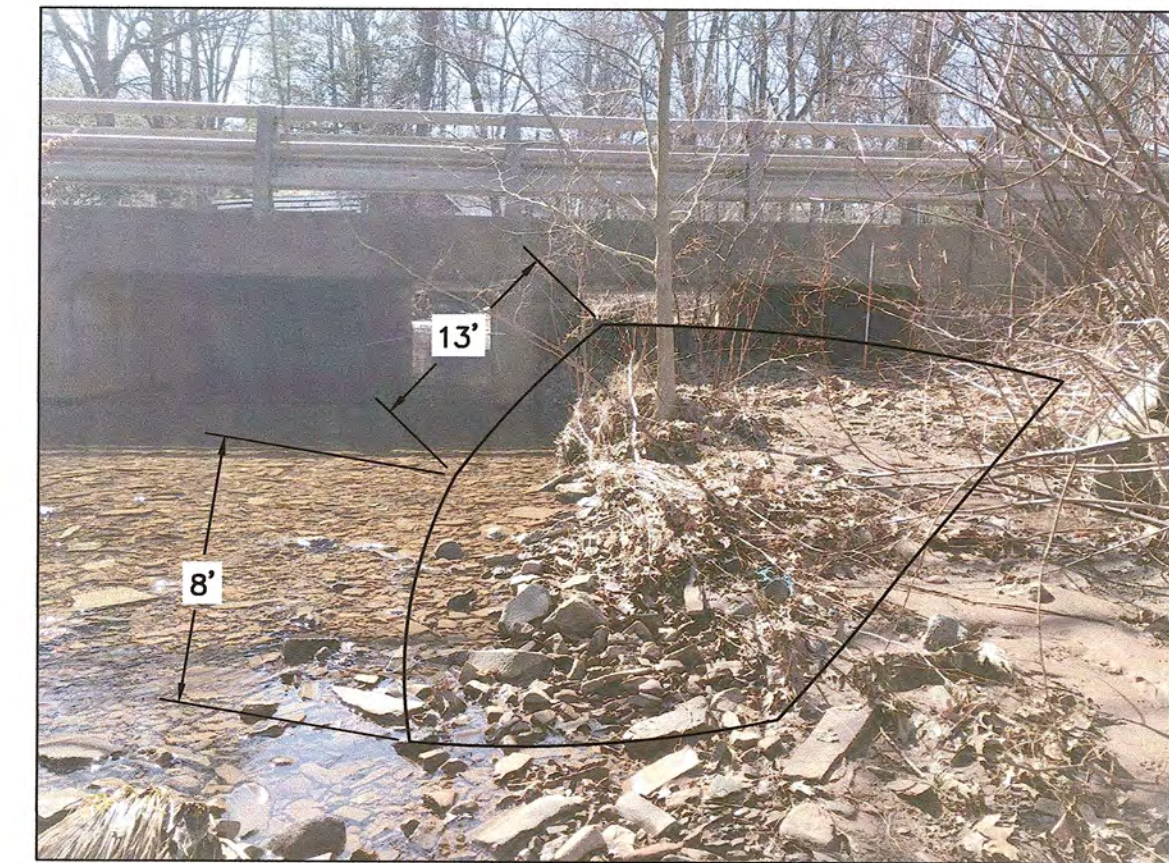
PICTURE LOCATION: LOOKING NORTH FROM THE SOUTHERN BRIDGE APPROACH. FROM PICTURE LOCATION, CONNELL DRIVE IS LOCATED PAST THE BRIDGE ON THE RIGHT.



PICTURE LOCATION: NORTH CALL AS SEEN FROM THE WEST SIDE, LOOKING EAST. THE NORTH CELL IS HEAVILY BLOCKED



PICTURE LOCATION: NORTH CELL, LOOKING EAST. THE NORTH CELL IS HEAVILY BLOCKED



PICTURE LOCATION: NORTH CELL AS SEEN FROM THE EAST SIDE, LOOKING WEST. THE NORTH CELL IS HEAVILY BLOCKED



PICTURE LOCATION: WEST FASCIA, LOOKING EAST



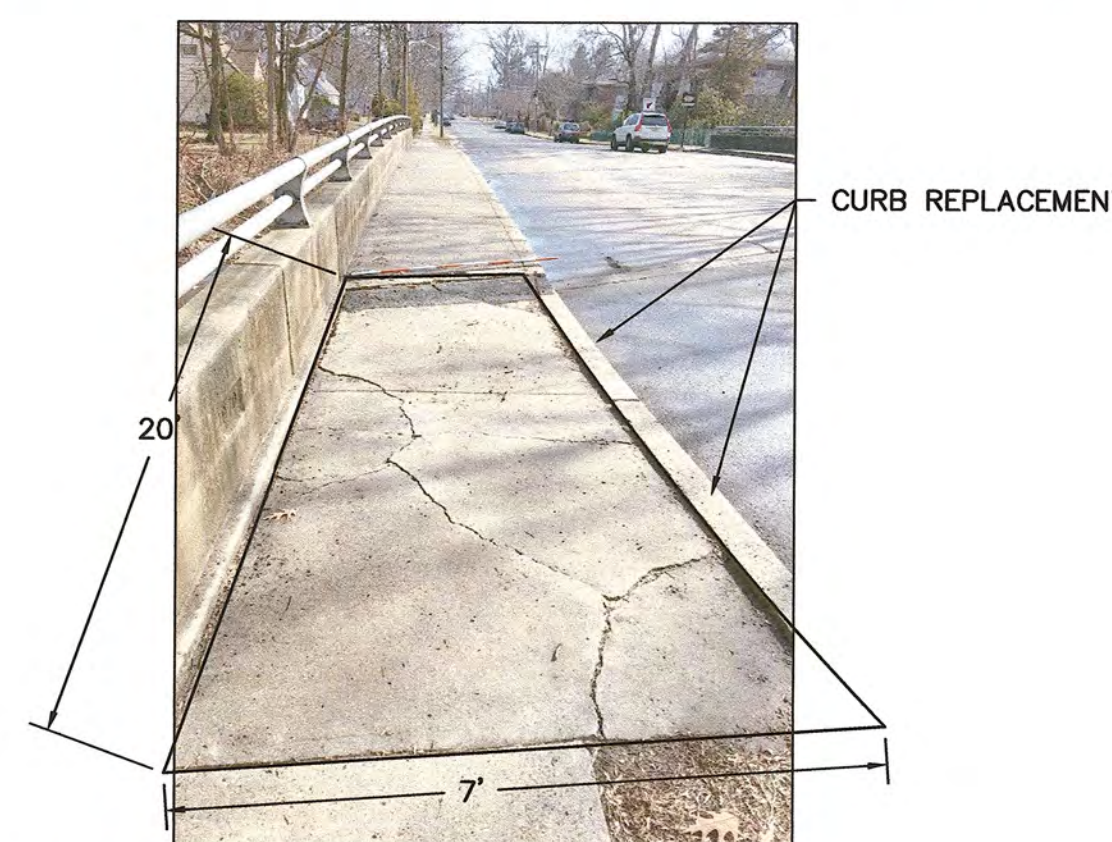
PICTURE LOCATION: SOUTHWEST WINGWALL, LOOKING NORTH. SEVERE EROSION IS PRESENT

DESCRIPTION OF WORK:
 AT THE DIRECTION OF THE RESIDENT ENGINEER, REMOVE AND CLEAR THE DEBRIS FILLED NORTH CELL
 STABILIZE THE ERODED EMBANKMENT WITH FILL MATERIAL AND RIP-RAP

TO BE CONSTRUCTED - LOCATION 11				
ITEM #	DESCRIPTION	UNITS	PLAN QUANTITY	AS-BUILT QUANTITY
24	RIPRAP STONE PROTECTION, 24" THICK (D50 = 12")	SY	5	
25	I-13 SOIL AGGREGATE	CY	5	
27	DEBRIS REMOVAL	CY	240	

LOCATION 11 - STRUCTURE #2001051 - PLAINFIELD AVENUE OVER GREEN BROOK - TOWNSHIP OF BERKELEY HEIGHTS

N.T.S.



NORTHWEST APPROACH SIDEWALK, LOOKING EAST. 2 SIDEWALK PANELS ARE DAMAGED



BRIDGE HEADER AT NORTHWEST APPROACH SIDEWALK. THE HEADER IS DAMAGED



BRIDGE HEADER AT NORTHWEST APPROACH SIDEWALK. THE HEADER IS DAMAGED



NORTHWEST APPROACH SIDEWALK, LOOKING EAST.



PICTURE LOCATION: MIDDLE JOINT, LOOKING EAST. SPALLS TYPICAL THROUGHOUT

LOCATION 12 - STRUCTURE #2012038 - LELAND AVENUE OVER GREEN BROOK - CITY OF PLAINFIELD

N.T.S.

TO BE CONSTRUCTED - LOCATION 12				
ITEM #	DESCRIPTION	UNITS	PLAN QUANTITY	AS-BUILT QUANTITY
8	REPAIR OF CONCRETE DECK, TYPE B	SF	125	
10	10" X 20" CONCRETE VERTICAL CURB	LF	22	
11	CONCRETE SIDEWALK, 4" THICK	SY	16	
15	BRIDGE DECK JOINT REPAIR	LF	55	
19	HOT MIX ASPHALT PAVEMENT REPAIR	LF	8	

DESCRIPTION OF WORK:
 REMOVE AND REPLACE THE DAMAGED SIDEWALK PANELS
 REMOVE LOOSE SECTIONS OF CONCRETE ADJACENT TO THE MIDDLE JOINT AND AT THE NORTHWEST APPROACH SIDEWALK HEADER
 REMOVE AND REPLACE THE JOINT MATERIAL AT THE MIDDLE JOINT
 PLACE RIP RAP AT AREAS OF SCOUR IN NORTH ABUTMENT AND CENTER PIER

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REMINGTON & VERNICK ENGINEERS
 232 KINGS HIGHWAY EAST
 HADDONFIELD, NJ 08033
 (856) 795-9595, FAX (856) 795-1882
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 Certification of Authorization: 24 GA 28003300
 ENGINEERING EXCELLENCE

DATE: 2-10-19
FRANK J. SENEY JR.
 NJ PROFESSIONAL ENGINEER LIC. No. 35321

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CONSTRUCTION PLAN - LOCATIONS 11 & 12

UNION COUNTY
 2018 BRIDGE IMPROVEMENT PROGRAM
 VARIOUS MUNICIPALITIES
 UNION COUNTY
 NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
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CP-6
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LOCATION 15.A
LIMIT OF SIDEWALK REPLACEMENT TO NORTHEAST APPROACH
SIDEWALK - 8 SQUARE YARDS



PICTURE LOCATION: ALONG RANDOLPH ROAD FACING EAST.



LOCATION 15.B
LIMIT OF SIDEWALK REPLACEMENT TO SOUTHWEST APPROACH
SIDEWALK - 4 SQUARE YARDS

DESCRIPTION OF WORK:

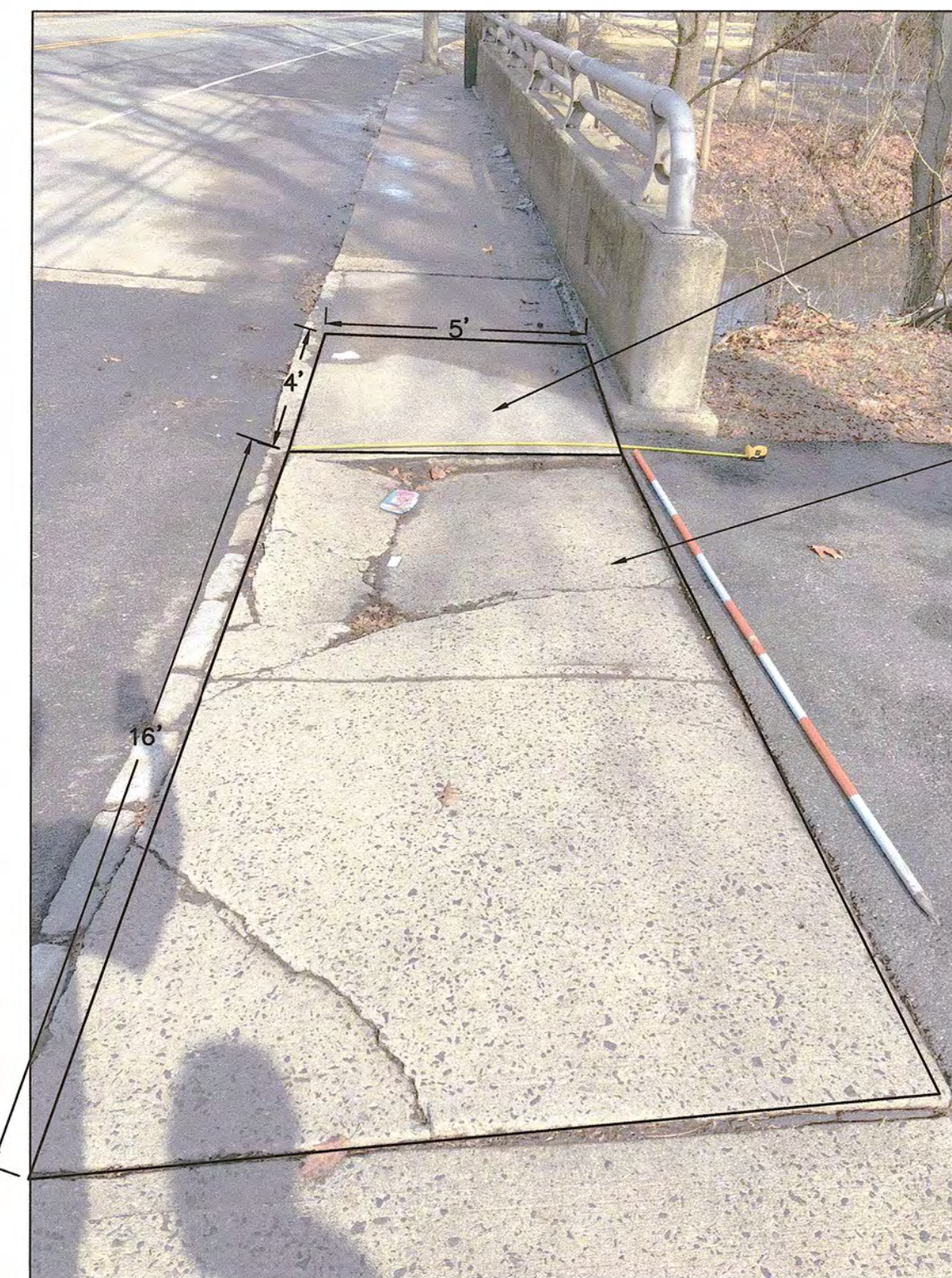
LOCATION 15.A: REMOVE AND REPLACE CONCRETE SIDEWALK & RESTORE ADJACENT VEGETATIVE SURFACE AND CONCRETE CURB.

LOCATION 15.B: REMOVE AND REPLACE CONCRETE SIDEWALK & RESTORE ADJACENT VEGETATIVE SURFACE.

TO BE CONSTRUCTED - LOCATION 15				
ITEM #	DESCRIPTION	UNITS	PLAN QUANTITY	AS-BUILT QUANTITY
10	10" X 20" CONCRETE VERTICAL CURB	LF	10	
11	CONCRETE SIDEWALK, 4" THICK	SY	12	
19	HOT MIX ASPHALT PAVEMENT REPAIR	SY	3	
22	TOPSOILING, 4" THICK	SY	6	
23	FERTILIZING AND SEEDING, TYPE A-3	SY	6	

LOCATION 15 - STRUCTURE #2012011 - RANDOLPH ROAD OVER CEDAR BROOK - CITY OF PLAINFIELD

N.T.S



REMOVE AND REPLACE CONCRETE SIDEWALK, 4" THICK

REMOVE AND REPLACE CONCRETE DRIVEWAY, 6" THICK

DESCRIPTION OF WORK:

REMOVE AND REPLACE CONCRETE SIDEWALK, 4" THICK.

REMOVE AND REPLACE CONCRETE DRIVEWAY, 6" THICK.

TO BE CONSTRUCTED - LOCATION 16				
ITEM #	DESCRIPTION	UNITS	PLAN QUANTITY	AS-BUILT QUANTITY
10	10" X 20" CONCRETE VERTICAL CURB	LF	22	
11	CONCRETE SIDEWALK, 4" THICK	SY	3	
19	HOT MIX ASPHALT PAVEMENT REPAIR	SY	7	
29	CONCRETE DRIVEWAY APRON, 6" THICK	SY	9	

LIMIT OF SIDEWALK REPLACEMENT - 3 SQUARE YARDS

LIMIT OF DRIVEWAY REPLACEMENT - 6 SQUARE YARDS



PICTURE LOCATION: TAKEN UPSTREAM FACING DOWNSTREAM WHERE DEBRIS BUILDS UP AT UTILITY PIPE CROSSING.

LOCATION 16 - STRUCTURE #2002012 - OAK RIDGE ROAD OVER STREAM 10-7-18 (PUMPKIN PATCH BROOK) - TOWNSHIP OF CLARK

N.T.S

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-ENGINEERING EXCELLENCE-

DATE: 2/10/19
FRANK J. SENEY JR.
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CONSTRUCTION PLAN - LOCATIONS 15 & 16

UNION COUNTY
2018 BRIDGE IMPROVEMENT PROGRAM
NEW JERSEY
VARIOUS MUNICIPALITIES

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DATE:	FEBRUARY 2019	SHEET No.:	12 of 28
JOB No.:	2000F012		

CP-8
CP-21



HOUSE: 616 SHACKAMAXON DRIVE
LOCATION 19
PICTURE LOCATION: PICTURE TAKEN ALONG SHACKAMAXON DRIVE, FACING NORTHEAST, TOWARDS THE INTERSECTION OF SHACKAMAXON DRIVE & RAHWAY AVENUE.



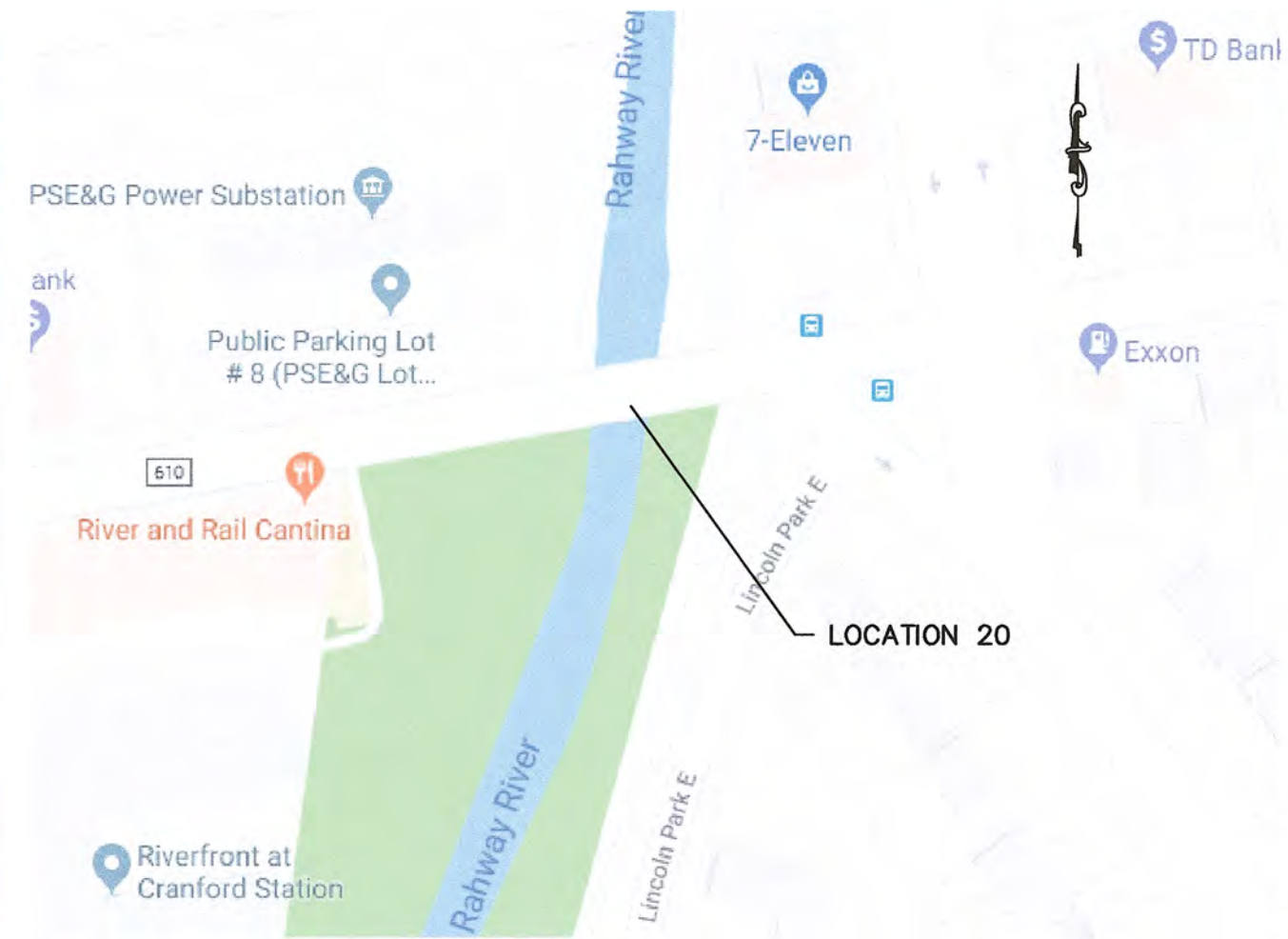
LIMIT OF SIDEWALK REPLACEMENT - 8 SQUARE YARDS

DESCRIPTION OF WORK:
REMOVE AND REPLACE CONCRETE SIDEWALK & RESTORE ADJACENT VEGETATIVE SURFACE.

TO BE CONSTRUCTED - LOCATION 19				
ITEM #	DESCRIPTION	UNITS	PLAN QUANTITY	AS-BUILT QUANTITY
11	CONCRETE SIDEWALK, 4" THICK	SY	8	
22	TOPSOILING, 4" THICK	SY	8	
23	FERTILIZING AND SEEDING, TYPE A-3	SY	8	

LOCATION 19 - STRUCTURE #2020039 - SHACKAMAXON DRIVE OVER STREAM 10-7-15 - TOWNSHIP OF WESTFIELD

N.T.S



LOCATION 20: SOUTH BRIDGE CURB, LOOKING EAST. THERE IS SEVERE SPALLING AND EXPOSED REINFORCEMENT FOR APPROXIMATELY 25 LF



LOCATION 20: BRIDGE DECK, LOOKING NORTH



LOCATION 20: SOUTH BRIDGE CURB, LOOKING SOUTHEAST. THERE IS SEVERE SPALLING AND EXPOSED REINFORCEMENT FOR APPROXIMATELY 25 LF

DESCRIPTION OF WORK:
REMOVE AND REPLACE THE SPALLED CONCRETE CURB ON THE SOUTH SIDE OF THE BRIDGE DECK

TO BE CONSTRUCTED - LOCATION 20				
ITEM #	DESCRIPTION	UNITS	PLAN QUANTITY	AS-BUILT QUANTITY
10	10" x 20" CONCRETE VERTICAL CURB	LF	27	
19	HOT MIX ASPHALT PAVEMENT REPAIR	SY	9	

LOCATION 20 - STRUCTURE #2003028 - SOUTH AVENUE (C.R. 610) OVER RAHWAY RIVER - TOWNSHIP OF CRANFORD

N.T.S



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(856) 795-9595, FAX (856) 795-1882
WEB SITE ADDRESS : WWW.RVE.COM

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DATE: 2-10-19
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NO.	REVISION	DATE	BY

CONSTRUCTION PLAN - LOCATIONS 19 & 20
UNION COUNTY
2018 BRIDGE IMPROVEMENT PROGRAM
UNION COUNTY
VARIOUS MUNICIPALITIES
NEW JERSEY

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DATE: FEBRUARY 2019	JOB No.: 2000F012		SHEET No.: 14 of 28

CP-10
CP-21



LOCATION 21: EAST BRIDGE APPROACH, LOOKING WEST

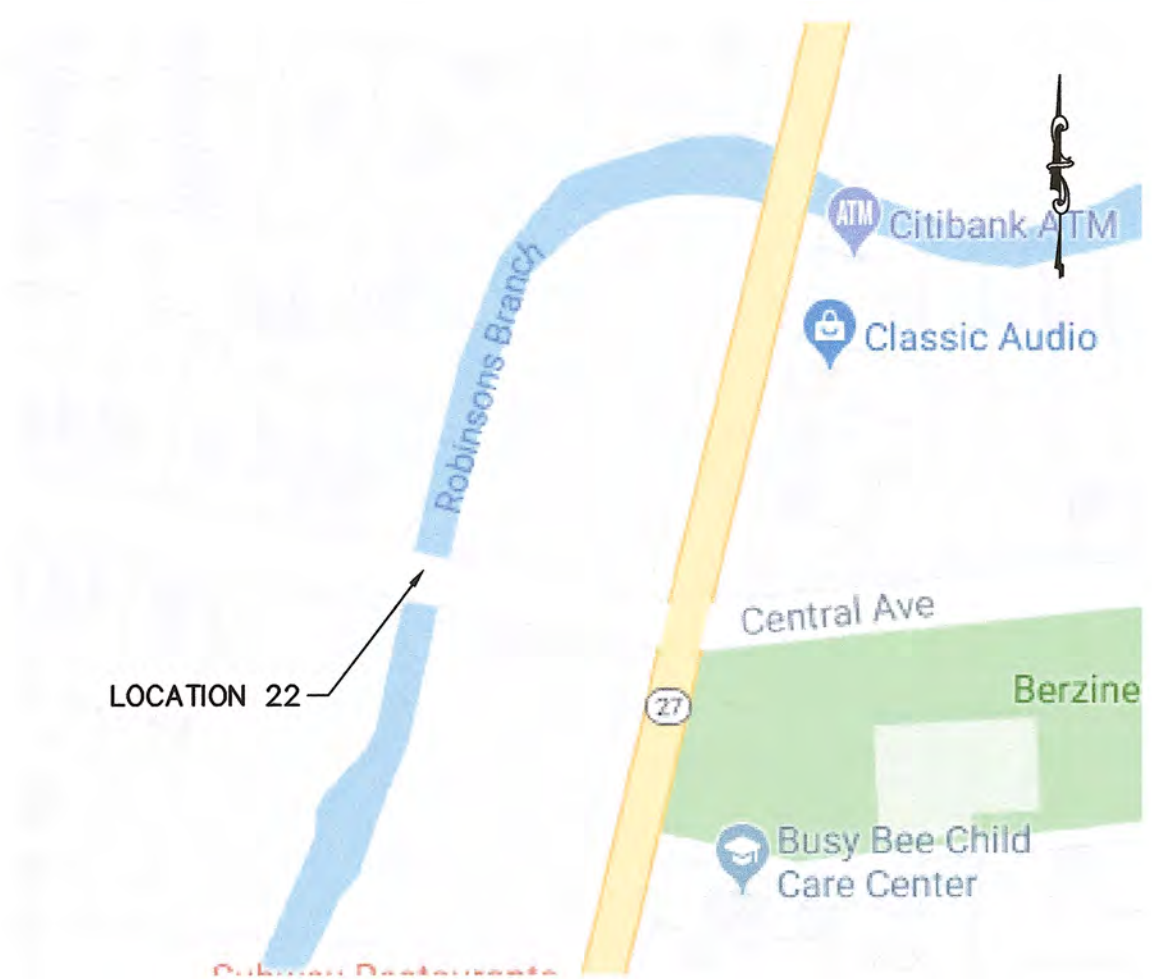


LOCATION 21: SOUTH BRIDGE SIDEWALK, LOOKING SOUTH. THERE IS A LOW HANGING WIRE.

DESCRIPTION OF WORK:
NO WORK IS REQUIRED AT THIS LOCATION. THE COUNTY SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY.

LOCATION 21 - STRUCTURE #2003008 - EASTMAN STREET OVER RAHWAY RIVER - TOWNSHIP OF CRANFORD

N.T.S.



LOCATION 22: EAST BRIDGE APPROACH, LOOKING WEST



LOCATION 22: SOUTH BRIDGE ELEVATION, LOOKING NORTH



LOCATION 22: NORTHEAST APPROACH SIDEWALK, LOOKING SOUTHWEST. THE DECK IS HEAVY SPALLED AND DELAMINATED.



LOCATION 22: EAST SPAN UNDERDECK, LOOKING EAST. HEAVY SPALLING WITH EXPOSED REINFORCEMENT IN DECK AND BEAMS



LOCATION 22: WEST SPAN UNDERDECK, LOOKING WEST. HEAVY SPALLING WITH EXPOSED REINFORCEMENT IN DECK AND BEAMS



LOCATION 22: SOUTH END OF WEST ABUTMENT, LOOKING WEST. UNDERMINING BELOW THE CONCRETE SCOUR PROTECTION



LOCATION 22: WEST FACE OF CENTER PIER, LOOKING NORTHEAST. UNDERMINING BELOW THE CONCRETE SCOUR PROTECTION

DESCRIPTION OF WORK:

FULL DEPTH RECONSTRUCTION OF BAY 13 IN BOTH SPANS

UNDERPIN THE WEST ABUTMENT AND CENTER PIER WITH TREMIE CONCRETE, PLACE RIPRAP ALONG BOTH ABUTMENTS AND CENTER PIER FACES TO PREVENT FURTHER UNDERMINING

TO BE CONSTRUCTED - LOCATION 22				
ITEM #	DESCRIPTION	UNITS	PLAN QUANTITY	AS-BUILT QUANTITY
5	REPAIR OF CONCRETE, DECK TYPE C	SF	275	
24	RIPRAP STONE PROTECTION, 24" THICK (D50 = 12")	CY	88	
27	DEBRIS REMOVAL	CY	8	
31	FLOWABLE FILL	CY	20	

LOCATION 22 - STRUCTURE #2013020 - CENTRAL AVENUE OVER ROBINSON'S BRANCH RAHWAY RIVER - CITY OF RAHWAY

N.T.S.

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HADDONFIELD, NJ 08033
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Certification of Authorization: 24 GA 28003300
-ENGINEERING EXCELLENCE-

DATE: 4.10.19
FRANK J. SENEY JR.
NJ PROFESSIONAL ENGINEER LIC. No. 35321

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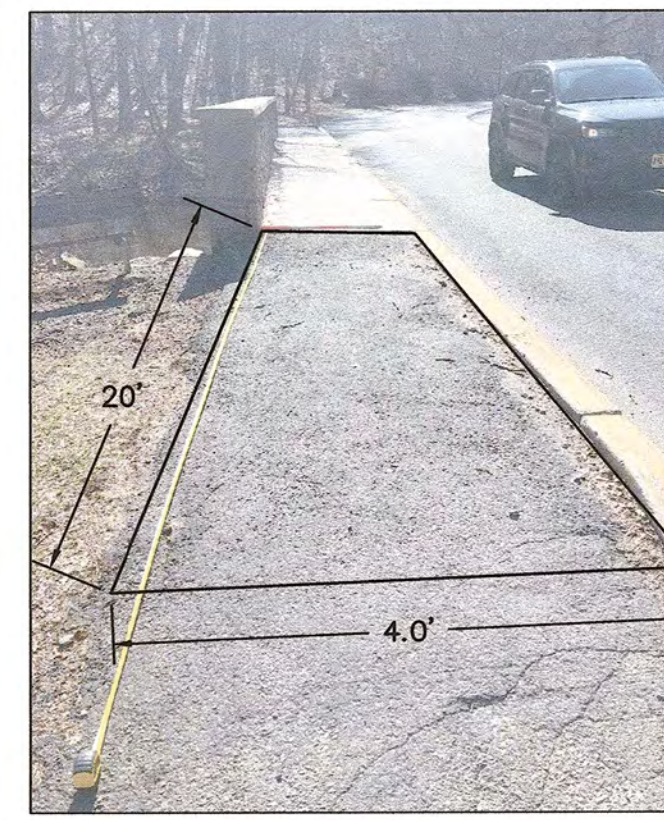
NO.	REVISION	DATE	BY	CHK

CONSTRUCTION PLAN - LOCATIONS 21 & 22
UNION COUNTY
2018 BRIDGE IMPROVEMENT PROGRAM
VARIOUS MUNICIPALITIES
UNION COUNTY
NEW JERSEY

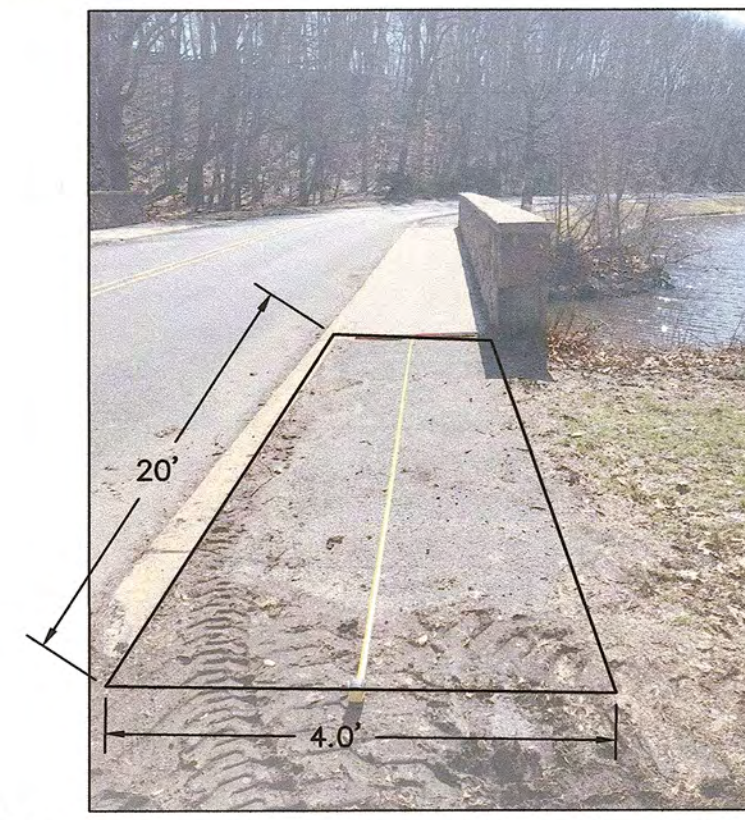
DRAWN BY: C.O.G./E.V.O. DESIGN BY: F.J.S. CHECKED BY: AS NOTED SCALE: AS NOTED
DATE: FEBRUARY 2019 SHEET No.: 15 of 28
JOB No.: 2000FD12

CP-11
CP-21

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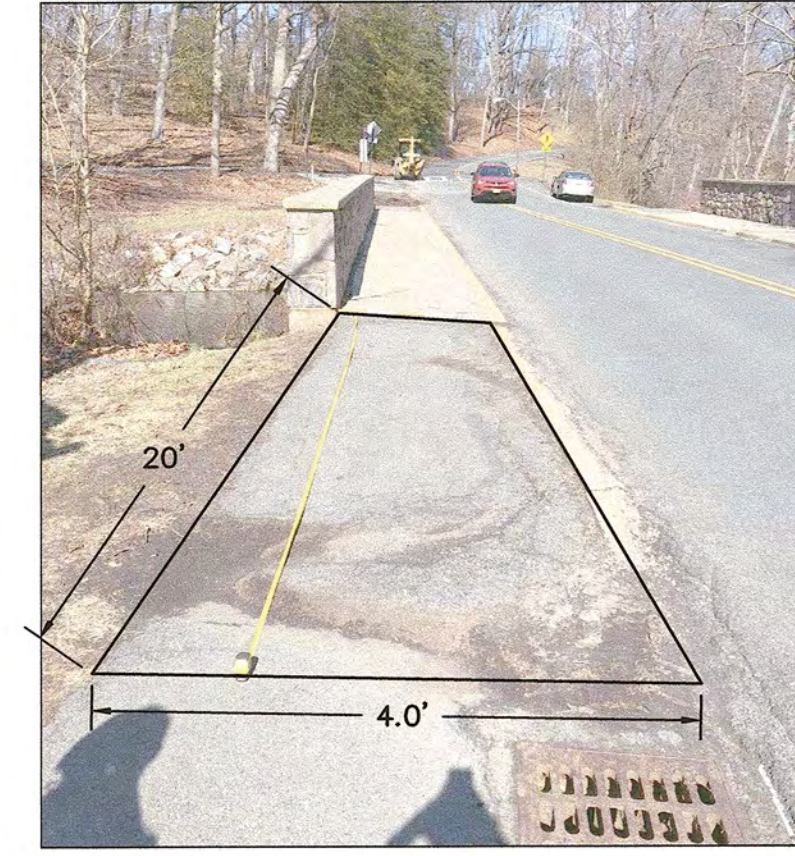
PICTURE LOCATION: PICTURE TAKEN FACING SOUTHEAST LOOKING AT THE SETTLED NORTHEAST APPROACH SIDEWALK.



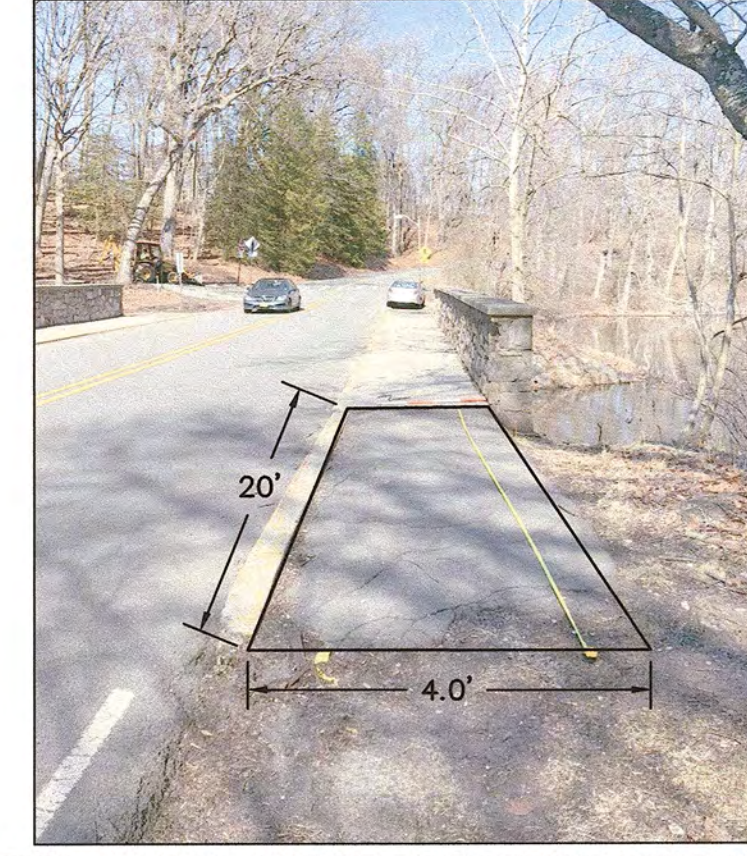
PICTURE LOCATION: PICTURE TAKEN FACING SOUTHEAST LOOKING AT THE SETTLED NORTHWEST APPROACH SIDEWALK.



PICTURE LOCATION: PICTURE TAKEN ALONG PARK DRIVE FACING SOUTHWEST.



PICTURE LOCATION: PICTURE TAKEN FACING NORTHEAST LOOKING AT THE SETTLED SOUTHWEST APPROACH SIDEWALK.



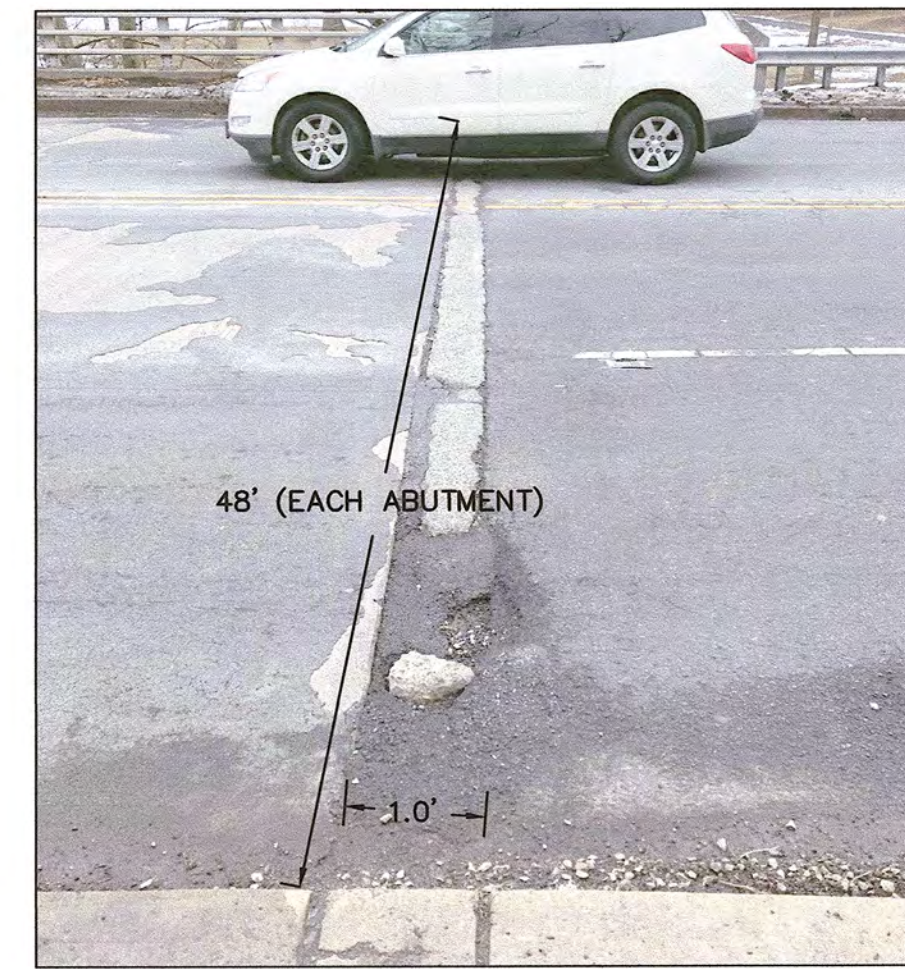
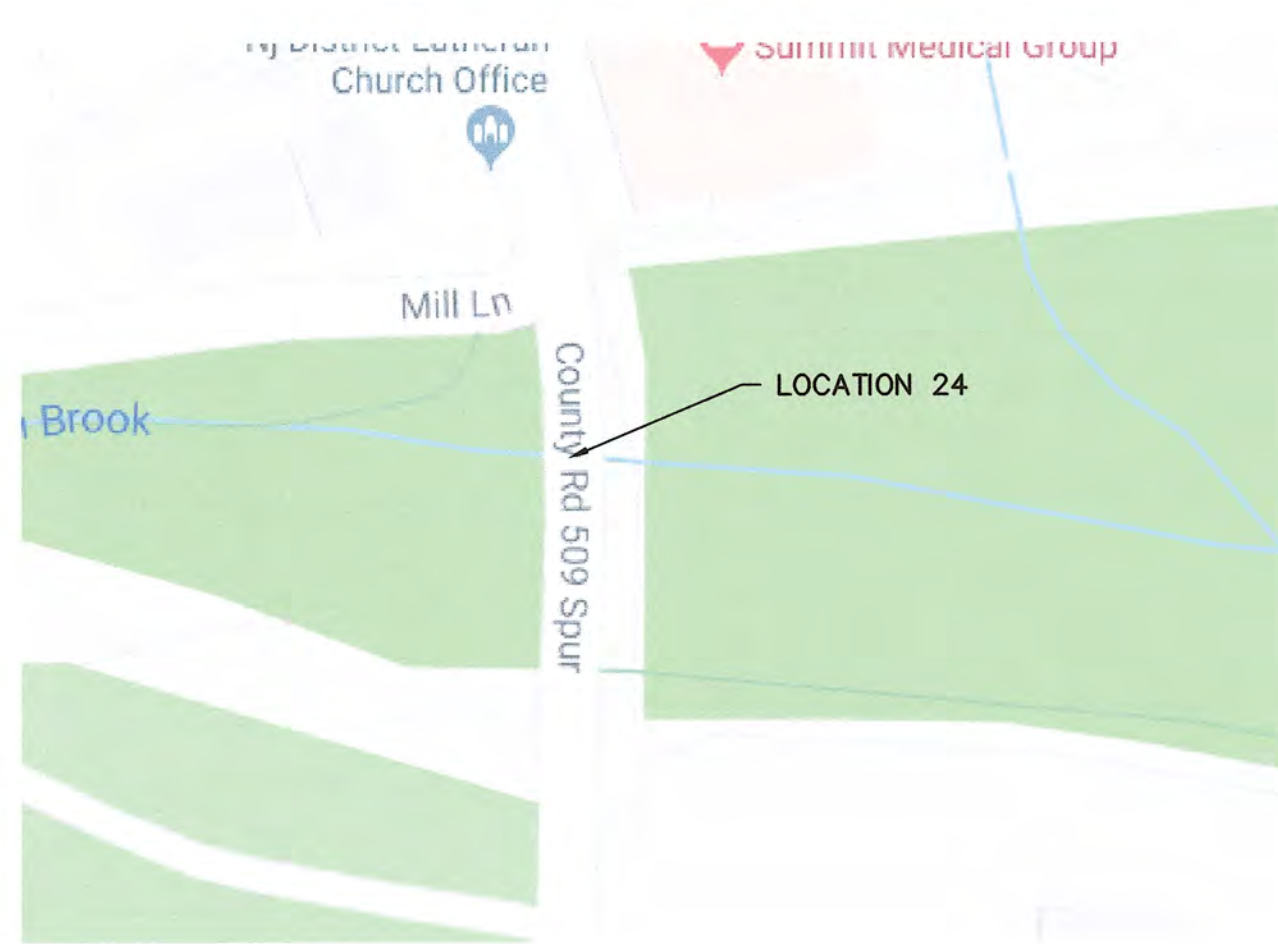
PICTURE LOCATION: PICTURE TAKEN FACING NORTHEAST LOOKING AT THE SETTLED SOUTHEAST APPROACH SIDEWALK.

DESCRIPTION OF WORK:
 REMOVE & REPLACE THE FIRST 20 FEET OF ASPHALT SIDEWALK ON EACH BRIDGE APPROACH AND RESTORE ADJACENT VEGETATIVE SURFACE

TO BE CONSTRUCTED - LOCATION 23				
ITEM #	DESCRIPTION	UNITS	PLAN QUANTITY	AS-BUILT QUANTITY
12	HOT MIX ASPHALT SIDEWALK, 4" THICK	SY	36	
22	TOPSOILING, 4" THICK	SY	8	
23	FERTILIZING AND SEEDING, TYPE A-3	SY	8	

LOCATION 23 - STRUCTURE #2010036 - ECHO LAKE PARK DRIVE OVER NOMAHEGN BROOK - CITY OF WESTFIELD

N.T.S.



PICTURE LOCATION: SOUTH BRIDGE HEADER, LOOKING EAST. THE BRIDGE HEADER IS SEVERELY DETERIORATED.

DESCRIPTION OF WORK:
 REMOVE LOOSE AND DETERIORATED CONCRETE AND REPAIR DECK SPALLS IN THE CONCRETE HEADER.
 REPLACE THE MISSING JOINT MATERIAL AT THE NORTH AND SOUTH ABUTMENTS

TO BE CONSTRUCTED - LOCATION 24				
ITEM #	DESCRIPTION	UNITS	PLAN QUANTITY	AS-BUILT QUANTITY
8	REPAIR OF CONCRETE DECK TYPE B	SF	96	
15	BRIDGE DECK JOINT REPAIR	LF	96	



PICTURE LOCATION: SOUTH BRIDGE ABUTMENT, LOOKING SOUTHEAST. MINOR EFFLORESCEANCE AND RUST STAINING TYPICAL THROUGHOUT.

LOCATION 24 - STRUCTURE #2020089 - SPRINGFIELD AVE (RT. 509 SPUR) OVER NOMAHEGN BROOK - TOWNSHIP OF WESTFIELD

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 Certification of Authorization: 24 GA 28002300
 ENGINEERING EXCELLENCE

DATE: 4.10.19
FRANK J. SENEY JR.
 NJ PROFESSIONAL ENGINEER LIC. No. 35321

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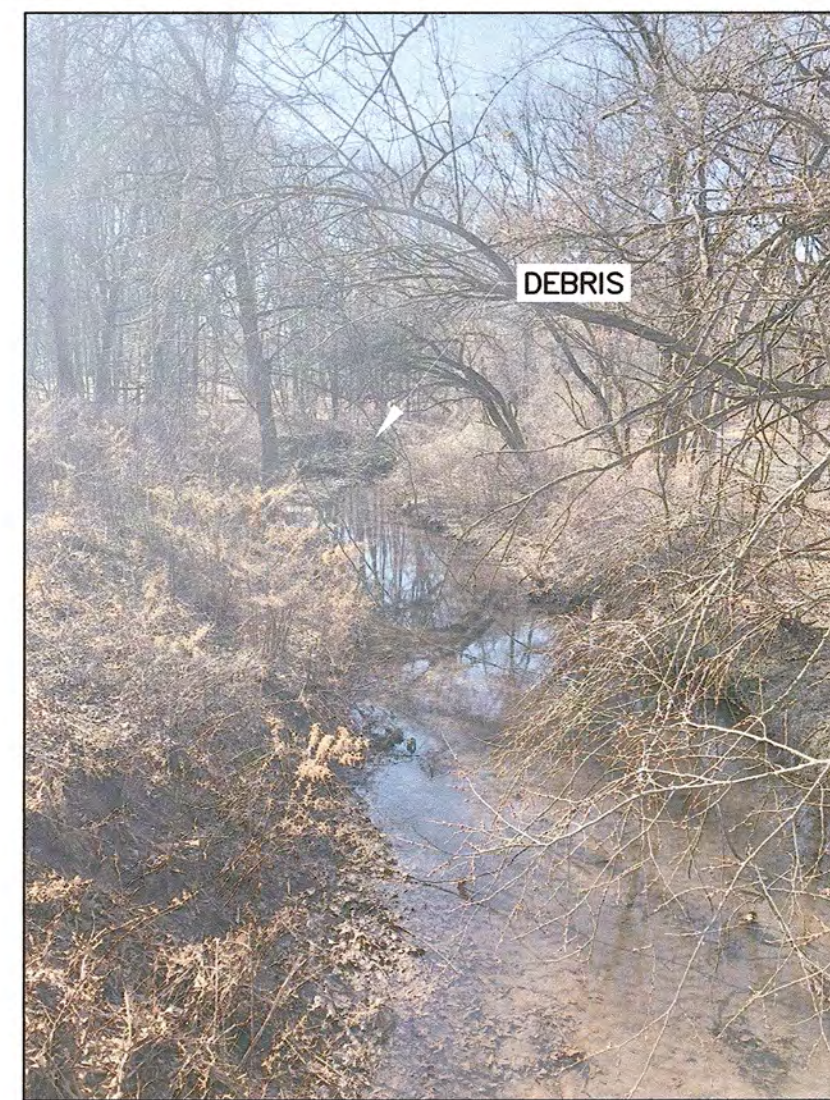
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CONSTRUCTION PLAN - LOCATIONS REAL 23 & 24

UNION COUNTY NEW JERSEY
 2018 BRIDGE IMPROVEMENT PROGRAM
 VARIOUS MUNICIPALITIES

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DATE: FEBRUARY 2019			SHEET No.: 16 of 28
JOB No.: 2000F012			

CP-12
 CP-21



PICTURE LOCATION: TAKEN FACING UPSTREAM



PICTURE LOCATION: TAKEN FACING DOWNSTREAM



PICTURE LOCATION: ALONG MOUNTAIN AVENUE FACING SOUTH. THE DEBRIS IS LOCATED DOWNSTREAM AND THE ASPHALT TRAIL DEPICTED IN THE PICTURE LEADS WEST TOWARDS THE BUILT-UP DEBRIS.

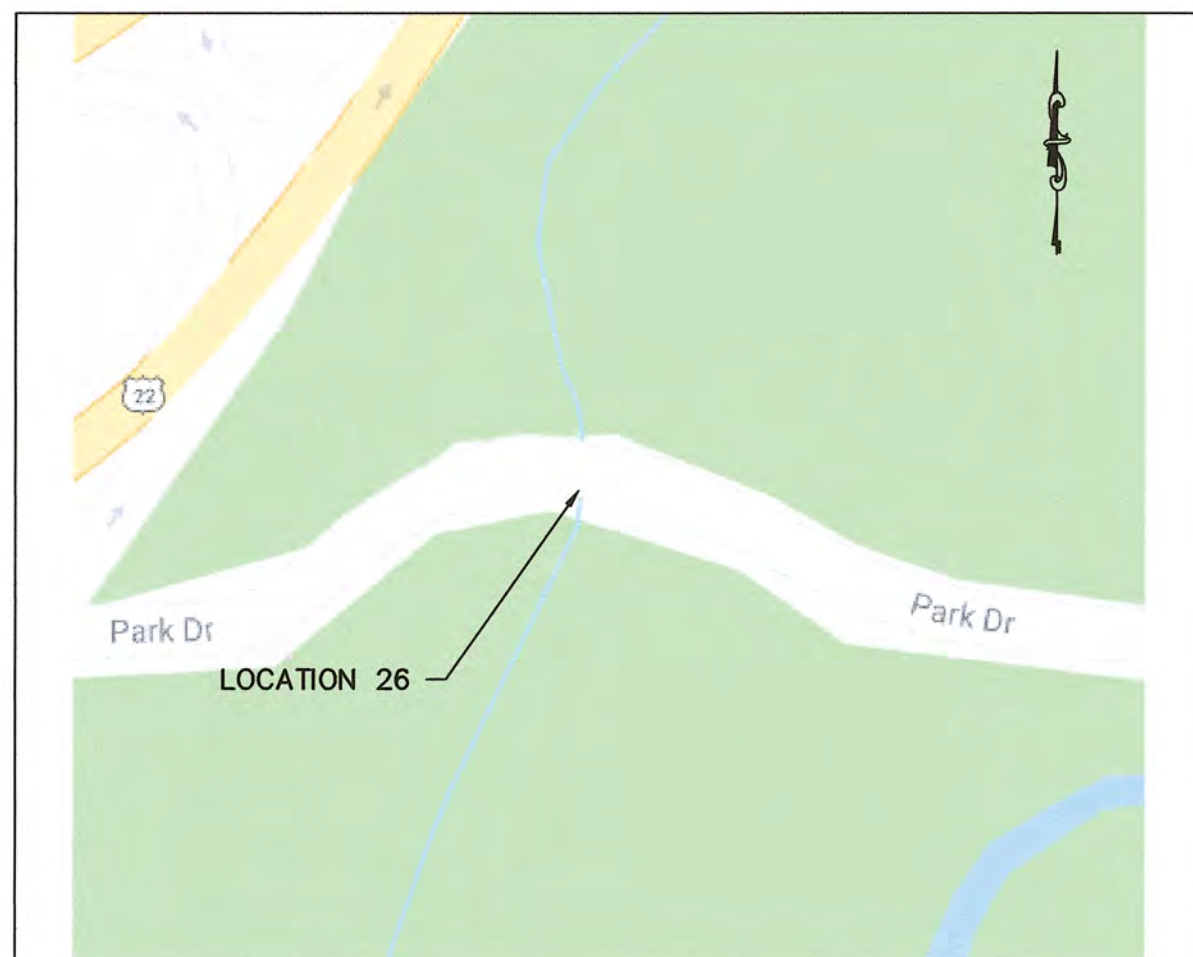


PICTURE LOCATION: UPSTREAM CHANNEL, LOOKING WEST. CLOSER VIEW OF DEBRIS LOCATION

DESCRIPTION OF WORK:
REMOVE THE STREAM DEBRIS

TO BE CONSTRUCTED - LOCATION 25				
ITEM #	DESCRIPTION	UNITS	PLAN QUANTITY	AS-BUILT QUANTITY
27	DEBRIS REMOVAL	CY	30	

LOCATION 25 - STRUCTURE #2010006 - MOUNTAIN AVE (C.R. 613) OVER NOMAHEGAN - BOROUGH OF MOUNTAINSIDE



PICTURE LOCATION: SOUTHWEST BRIDGE APPROACH, LOOKING EAST. THERE IS EXPOSED SIDEWALK PRESENTING A TRIPPING HAZARD

DESCRIPTION OF WORK:
GRADE AND SEED THE SOIL TO PROVIDE A SMOOTH TRANSITION TO THE CONCRETE APPROACH SOUTH SIDEWALK AT THE WEST END.

TO BE CONSTRUCTED - LOCATION 26				
ITEM #	DESCRIPTION	UNITS	PLAN QUANTITY	AS-BUILT QUANTITY
22	TOPSOIL, 4" THICK	SY	5	
23	FERTILIZE AND SEED, TYPE A-3	SY	5	



PICTURE LOCATION: WEST BRIDGE APPROACH LOOKING EAST



PICTURE LOCATION: SOUTHWEST BRIDGE APPROACH, LOOKING EAST. THERE IS EXPOSED SIDEWALK PRESENTING A TRIPPING HAZARD

LOCATION 26 - STRUCTURE #2010035 - ECHO LAKE PARK DRIVE OVER ECHO BROOK - BOROUGH OF MOUNTAINSIDE

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CONSTRUCTION PLAN -
LOCATIONS 25 & 26

UNION COUNTY
2018 BRIDGE IMPROVEMENT PROGRAM
VARIOUS MUNICIPALITIES
UNION COUNTY
NEW JERSEY

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DATE: FEBRUARY 2019			SHEET No.:
JOB No.: 2000F012			17 of 28



PICTURE LOCATION: SOUTH ELEVATION, LOOKING NORTH.
 (BACKGROUND) THE WEST RETAINING WALL EXHIBITS AREAS OF
 EXPOSED FOOTINGS.



PICTURE LOCATION: WEST BRIDGE APPROACH, LOOKING EAST



PICTURE LOCATION: EAST ABUTMENT JOINT, LOOKING NORTH. THE
 JOINT MATERIAL HAS FAILED



PICTURE LOCATION: EAST ABUTMENT, LOOKING EAST. SUNKEN
 JOINT MATERIAL RESTING ON ABUTMENT BREASTWALL

DESCRIPTION OF WORK:

REPLACE THE JOINT MATERIAL AT THE EAST ABUTMENT

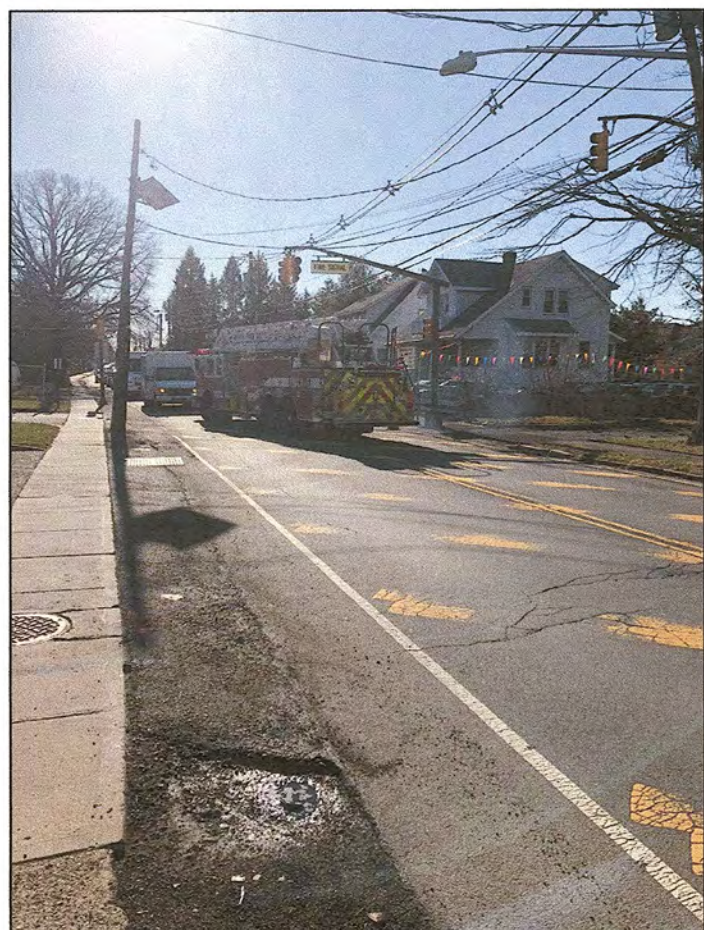
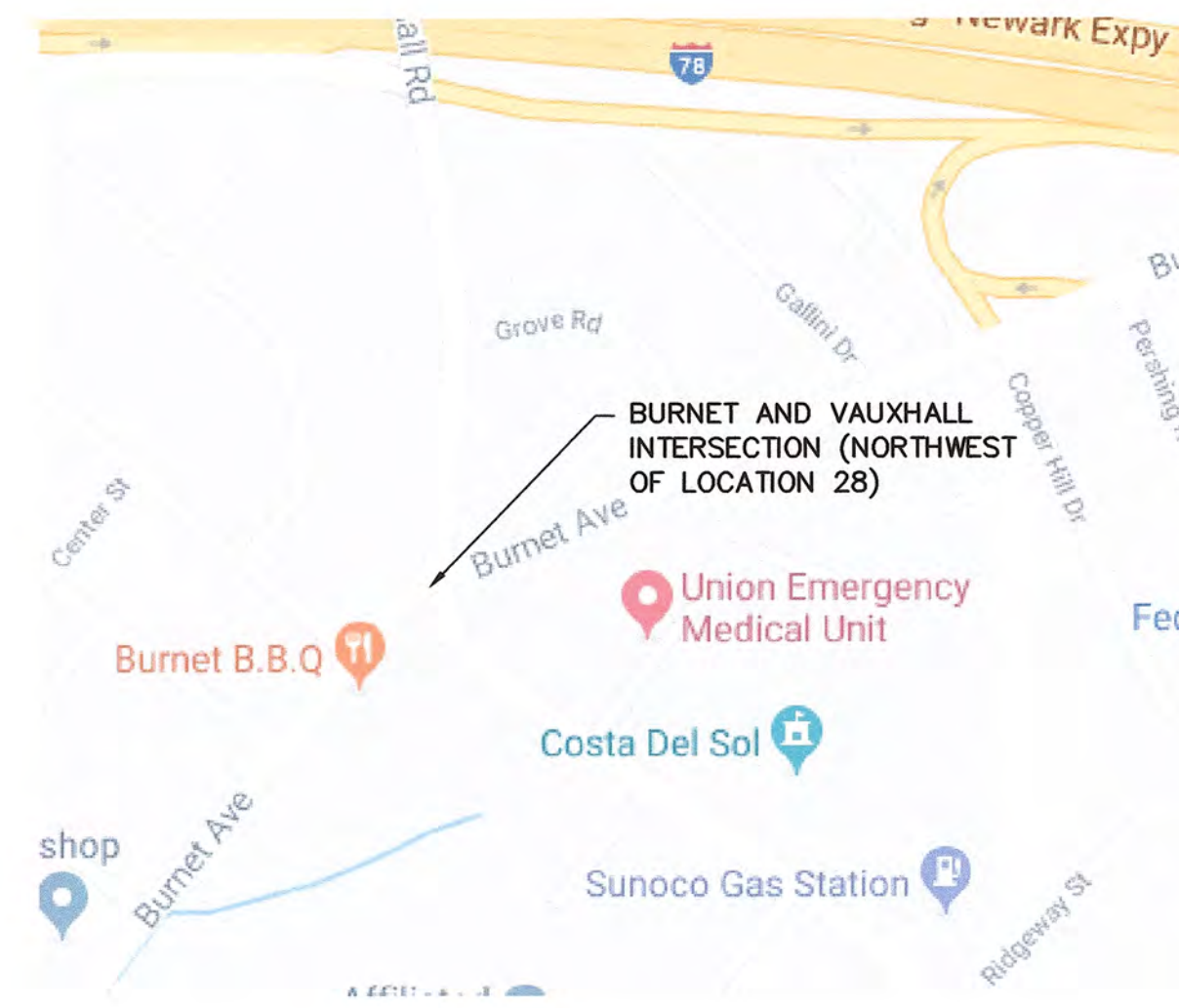
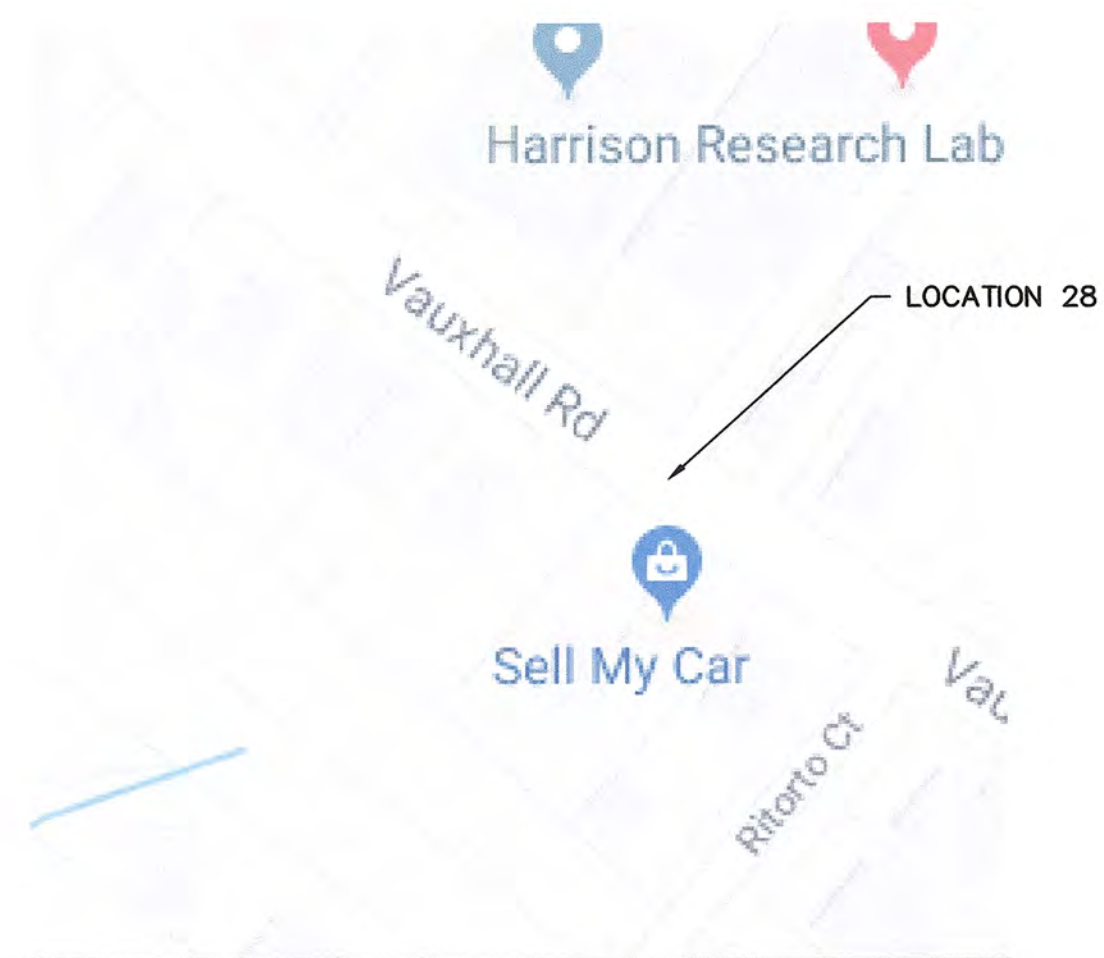
PLACE STONE RIPRAP ALONG THE NORTH END OF THE WEST ABUTMENT AND
 RETAINING WALL

REMOVE LOOSE CONCRETE AND PATCH SPALLS IN THE WEST ABUTMENT RETAINING
 WALL

TO BE CONSTRUCTED - LOCATION 27				
ITEM #	DESCRIPTION	UNITS	PLAN QUANTITY	AS-BUILT QUANTITY
7	REPAIR OF CONCRETE, SUBSTRUCTURE, TYPE B	SF	8	
15	BRIDGE DECK JOINT REPAIR	LF	50	
24	RIPRAP STONE PROTECTION, 24" THICK (D50 = 12")	SY	50	

LOCATION 27 - STRUCTURE #2007020 - LIBERTY AVENUE (RT 509) OVER ELIZABETH RIVER - TOWNSHIP OF HILLSIDE

N.T.S



PICTURE LOCATION: EAST ABUTMENT, LOOKING WEST



PICTURE LOCATION: EXISTING LOAD POSTING SIGN AT THE WEST
 APPROACH, LOOKING EAST

DESCRIPTION OF WORK:

INSTALL LOAD POSTING SIGNS AT THE EAST APPROACH CURBLINE,
 INTERSECTION OF BURNET AVE/VAUXHALL ROAD AND INTERSECTION OF
 STUYVESANT AVE/VAUXHALL ROAD.

TO BE CONSTRUCTED - LOCATION 28				
ITEM #	DESCRIPTION	UNITS	PLAN QUANTITY	AS-BUILT QUANTITY
14	REGULATORY WARNING SIGN	SF	18	

LOCATION 28 - STRUCTURE #2019062 - CR 630 (VAUXHALL ROAD) OVER STREAM 10-37-2 - TOWNSHIP OF UNION

N.T.S



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 ENGINEERING EXCELLENCE

DATE: 4-10-19
FRANK J. SENEY JR.
 NJ PROFESSIONAL ENGINEER LIC. No. 35321

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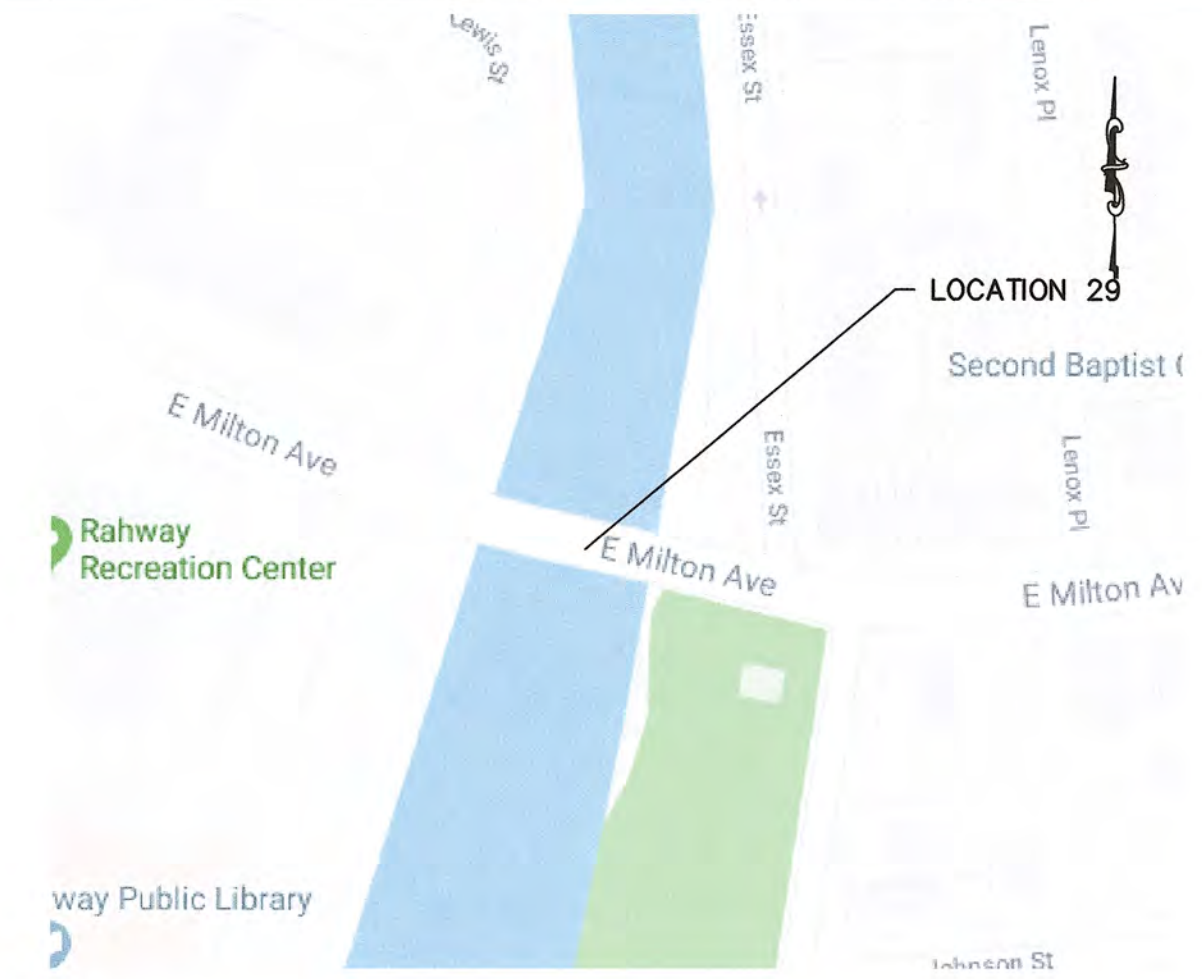
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CONSTRUCTION PLAN LOCATIONS
27 & 28
 UNION COUNTY
2018 BRIDGE IMPROVEMENT PROGRAM
 VARIOUS MUNICIPALITIES
 NEW JERSEY

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JOB No.:			
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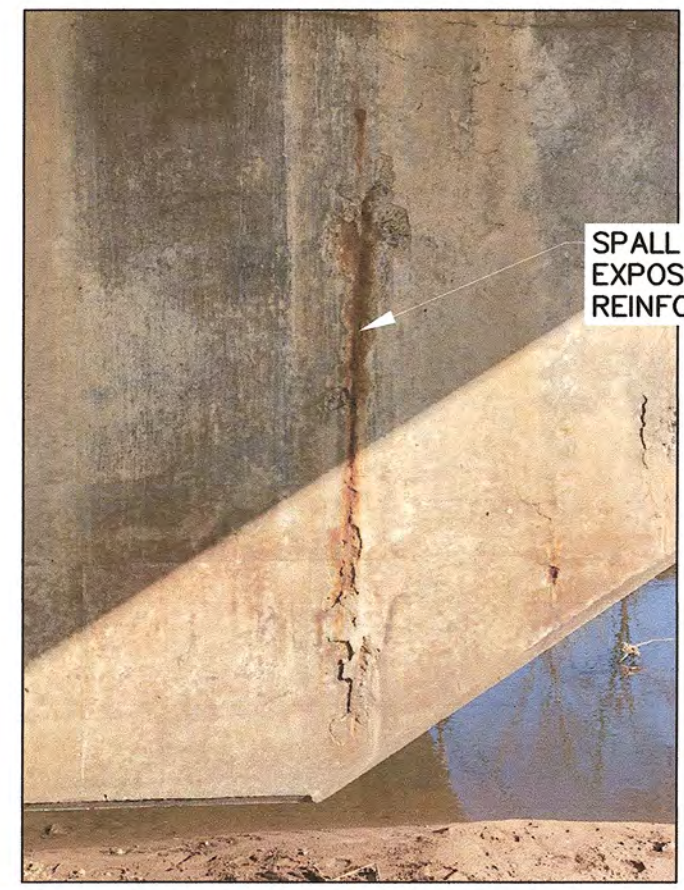
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 CP-21



PICTURE LOCATION: CENTER PIER, EAST FACE, SOUTH END
LOOKING WEST. HAIRLINE CRACKING WITH LIGHT EFFLORESCE



PICTURE LOCATION: SOUTH BRIDGE ELEVATION, LOOKING NORTH



PICTURE LOCATION: EAST FACE OF CENTER PIER, NORTH END
LOOKING WEST. SPALL WITH EXPOSED REINFORCEMENT

DESCRIPTION OF WORK:
REMOVE LOOSE CONCRETE, CLEAN REINFORCEMENT AND PATCH SPALLED AREA IN THE CENTER PIER WITH EPOXY CONCRETE

TO BE CONSTRUCTED - LOCATION 29				
ITEM #	DESCRIPTION	UNITS	PLAN QUANTITY	AS-BUILT QUANTITY
7	REPAIR OF CONCRETE, SUBSTRUCTURE, TYPE B	SF	5	

LOCATION 29 - STRUCTURE #2013021 - EAST MILTON AVENUE (CR 608) OVER RAHWAY RIVER - CITY OF RAHWAY

N.T.S.



PICTURE LOCATION: EAST ABUTMENT, LOOKING WEST



PICTURE LOCATION: SOUTHWEST APPROACH SIDEWALK, LOOKING WEST. THE BITUMINOUS SIDEWALK IS DEPRESSED

DESCRIPTION OF WORK:
REMOVE AND REPLACE THE ASPHALT SOUTHWEST APPROACH SIDEWALK AND ADJACENT VEGETATIVE MATERIAL.

TO BE CONSTRUCTED - LOCATION 30				
ITEM #	DESCRIPTION	UNITS	PLAN QUANTITY	AS-BUILT QUANTITY
12	HOT MX ASPHALT SIDEWALK, 4" THICK	SY	3	
22	TOPSOLING, 4" THICK	SY	3	
23	FERTILIZING AND SEEDING, TYPE A-3	SY	3	

LOCATION 30 - STRUCTURE #2013064 - PLAINFIELD AVENUE OVER STREAM 10-6-2 - CITY OF RAHWAY

N.T.S.



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CONSTRUCTION PLAN - LOCATIONS 29 & 30
UNION COUNTY
2018 BRIDGE IMPROVEMENT PROGRAM
NEW JERSEY
VARIOUS MUNICIPALITIES

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JOB No.:	2000F012		19 of 28

CP-15
CP-21

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PICTURE LOCATION: SOUTH END OF THE WEST SIDEWALK, MISALIGNED DRAINAGE PIPE AND EXPOSED FILL



PICTURE LOCATION: SOUTHEAST APPROACH SIDEWALK, LOOKING SOUTHWEST. SETTLEMENT OF UP TO 2"

DESCRIPTION OF WORK:

REMOVE AND REPLACE THE SETTLED SIDEWALK PANELS AND THE ADJACENT VEGETATIVE SURFACE

EXCAVATION, REMOVAL & REPLACEMENT OF THE MISALIGNED SECTIONS OF 24" REINFORCED CONCRETE PIPE.

TO BE CONSTRUCTED - LOCATION 39				
ITEM #	DESCRIPTION	UNITS	PLAN QUANTITY	AS-BUILT QUANTITY
11	CONCRETE SIDEWALK, 4" THICK	SY	4	
13	18" CONCRETE PIPE, CLASS V	LF	8	
20	EXCAVATION, UNCLASSIFIED	CY	20	
22	TOPSOILING, 4" THICK	SY	4	
23	FERTILIZING AND SEEDING, TYPE A-3	SY	4	

LOCATION 39 - STRUCTURE #2012051 - PROSPECT AVENUE OVER CEDAR BROOK - CITY OF PLAINFIELD

N.T.S



PICTURE LOCATION: STRINGER S5, NORTH FACE, LOOKING SOUTH. SPALL WITH EXPOSED REINFORCEMENT.

DESCRIPTION OF WORK:

PATCH SPALLED AREAS IN THE EAST ABUTMENT AND STRINGER S5

EXCAVATION, REMOVAL & REPLACEMENT OF THE MISALIGNED SECTIONS OF 18" REINFORCED CONCRETE PIPE.

TO BE CONSTRUCTED - LOCATION 40				
ITEM #	DESCRIPTION	UNITS	PLAN QUANTITY	AS-BUILT QUANTITY
6	REPAIR OF CONCRETE SUPERSTRUCTURE, TYPE B	SF	25	
13	18" CONCRETE PIPE, CLASS V	LF	8	
20	EXCAVATION, UNCLASSIFIED	CY	20	

LOCATION 40 - STRUCTURE #2012053 - PUTNAM AVENUE OVER CEDAR BROOK - CITY OF PLAINFIELD

N.T.S



PICTURE LOCATION: BRICK MASONRY WALL AT THE NORTH END OF THE CULVERT, LOOKING NORTH. PIPE MISALIGNMENT WITH EXPOSED FILL.



PICTURE LOCATION: EAST ABUTMENT DRAIN OUTLET PIPE AT NORTH END, LOOKING EAST. SPALL WITH EXPOSED REINFORCEMENT.

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Certification of Authorization: 24 GA 28003300
ENGINEERING EXCELLENCE

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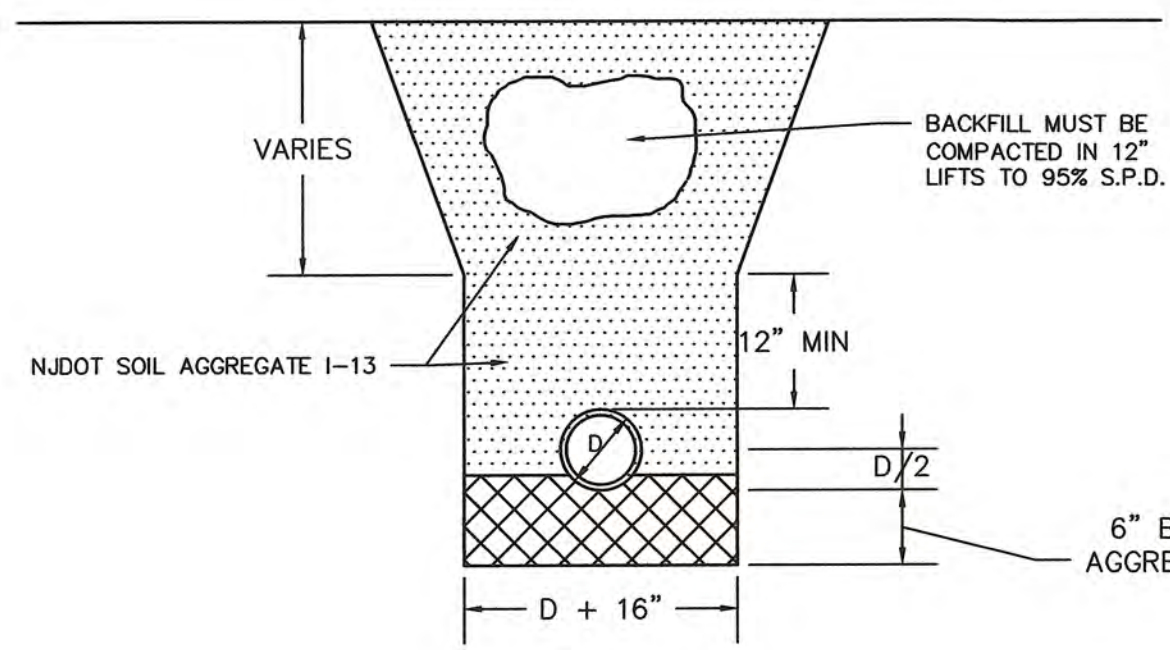
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CONSTRUCTION PLAN - LOCATIONS 39 & 40
UNION COUNTY
2018 BRIDGE IMPROVEMENT PROGRAM
NEW JERSEY
VARIOUS MUNICIPALITIES

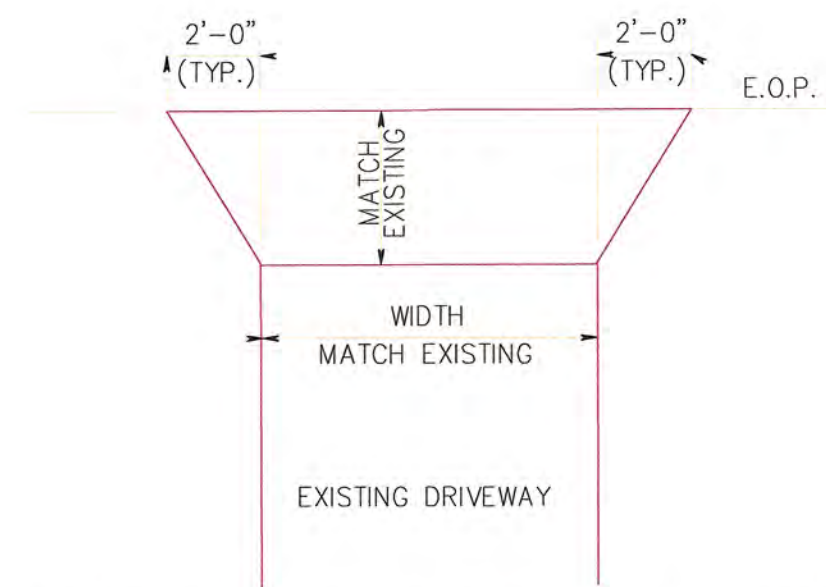
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DATE: FEBRUARY 2019	JOB No.: 2000F012	SHEET No.: 24 of 28	

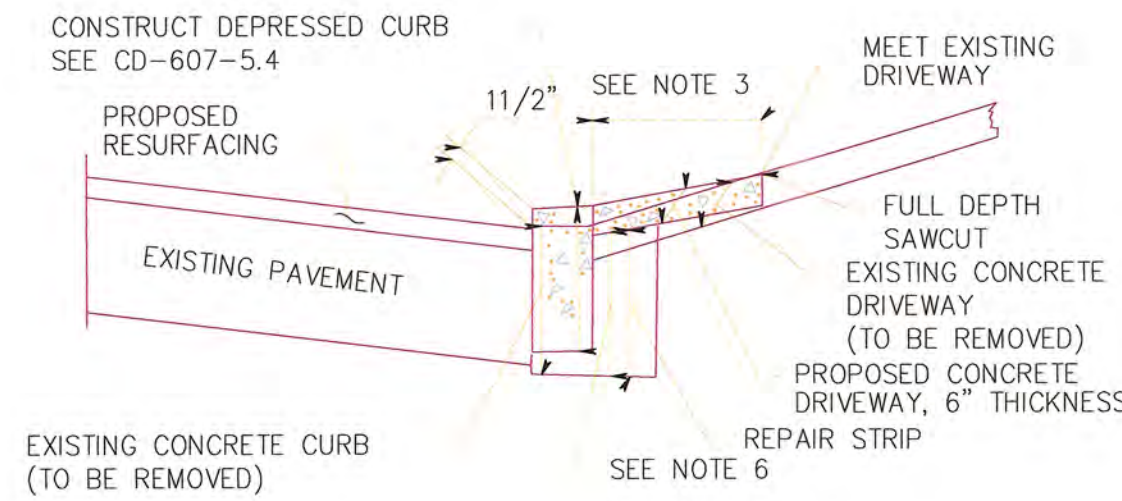


TRENCH DETAIL FOR PIPE

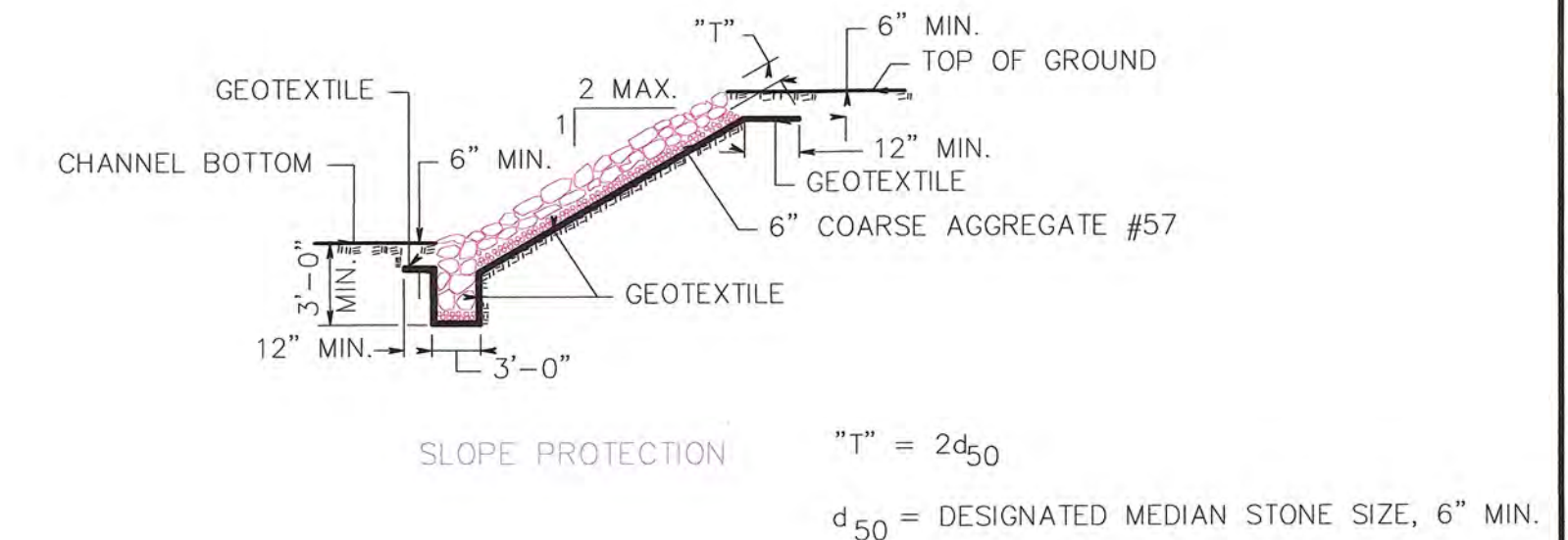
NOTES:
1. MAXIMUM WIDTH OF TRENCH SHALL NOT EXCEED THE DEPTH TO THE INVERT OF THE PROPOSED PIPELINE.
2. SEPARATE PAYMENT WILL NOT BE MADE FOR SOIL AGGREGATE BACKFILL AND PIPE BEDDING BUT THE COSTS SHALL BE INCLUDED IN THE UNIT COST FOR PIPING.



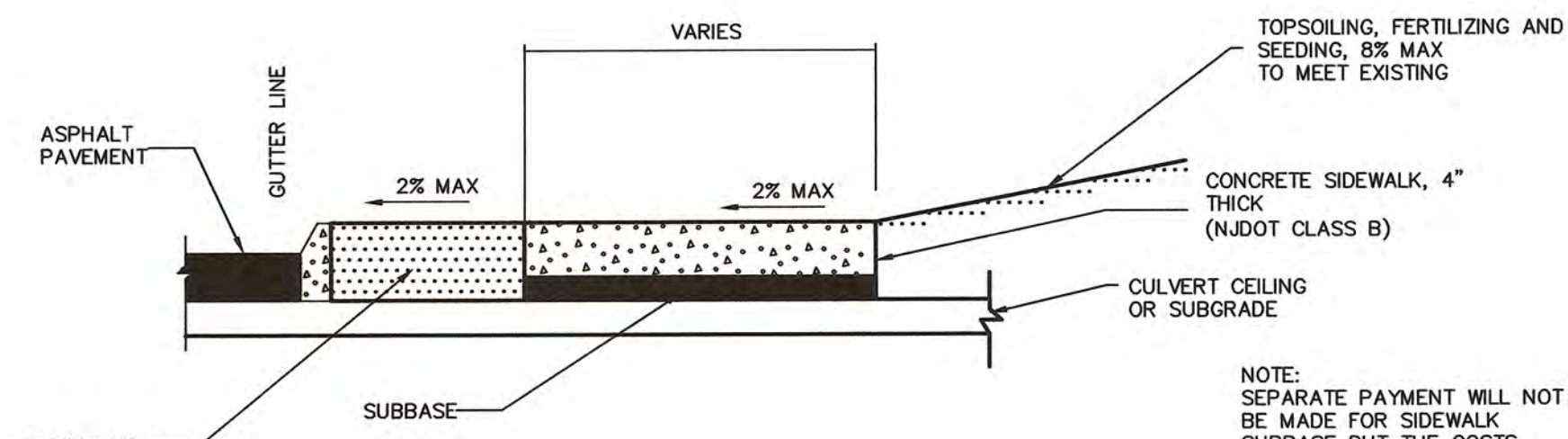
CONCRETE DRIVEWAY PLAN VIEW



CONCRETE DRIVEWAY ELEVATION VIEW

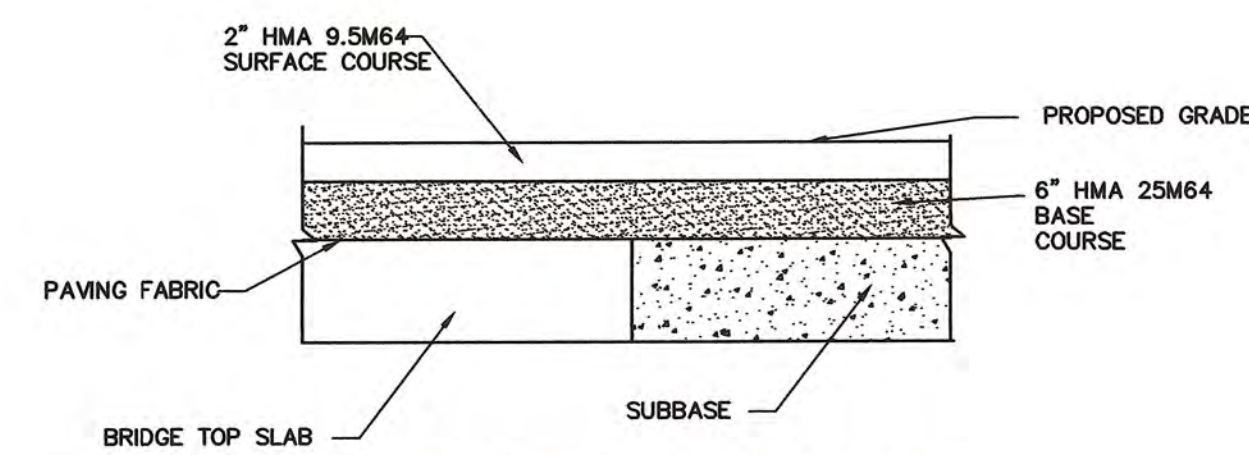


RIPRAP STONE PROTECTION

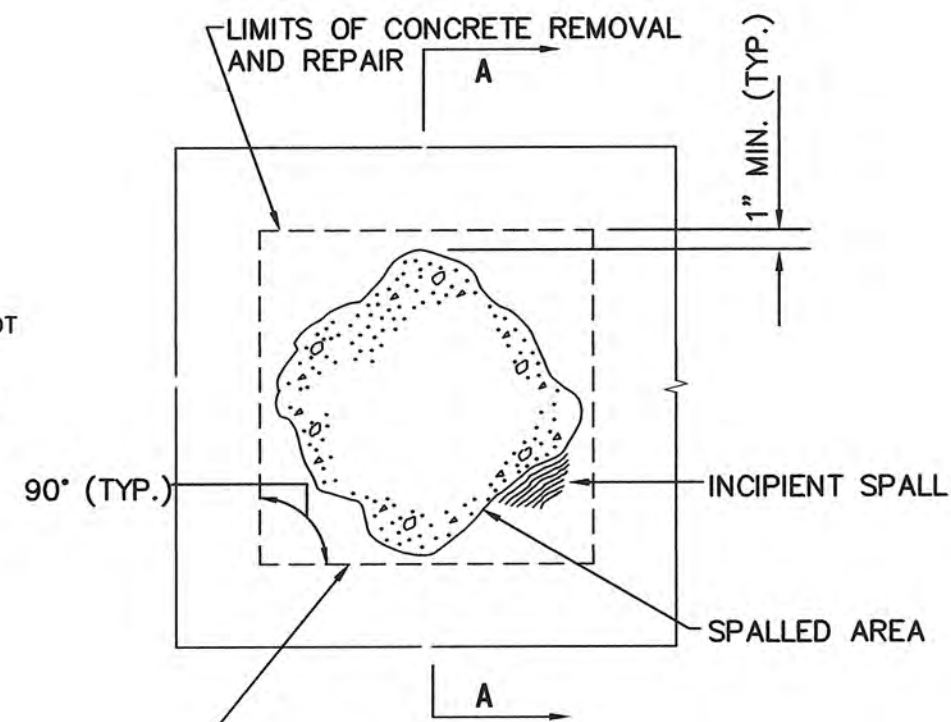


CONCRETE SIDEWALK, 4" THICK

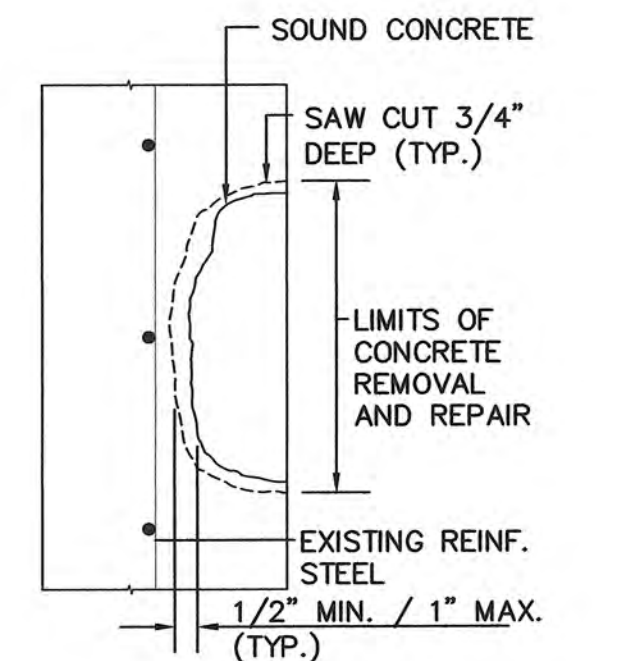
NOTE: SEPARATE PAYMENT WILL NOT BE MADE FOR SIDEWALK SUBBASE BUT THE COSTS SHALL BE INCLUDED IN THE UNIT PRICE FOR SIDEWALK.



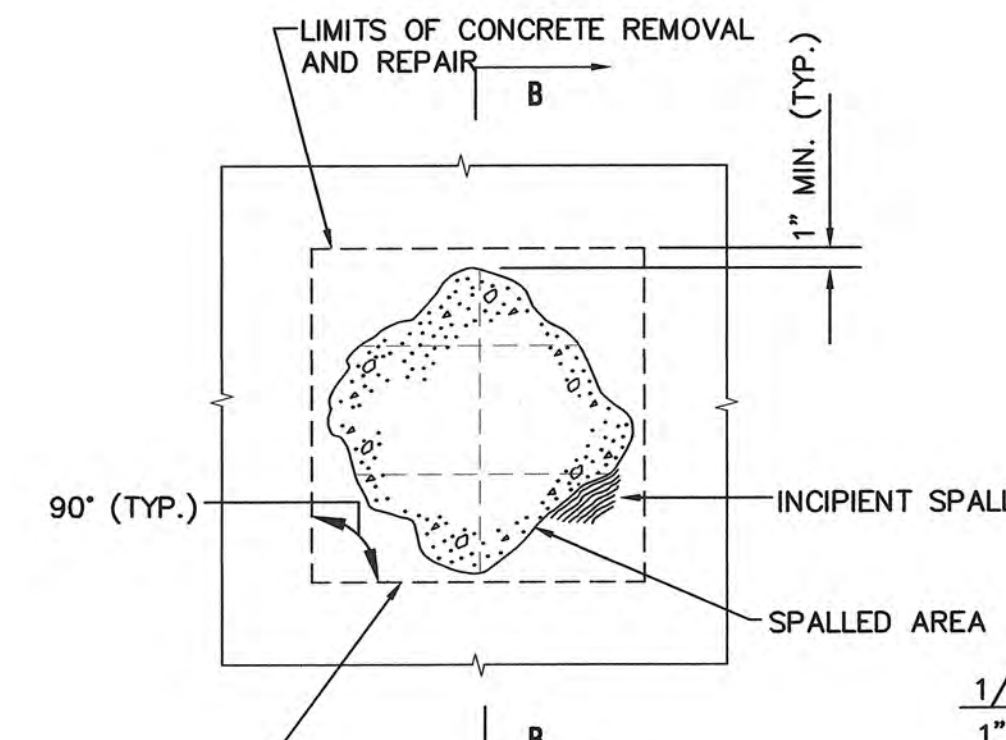
PAVEMENT RESTORATION



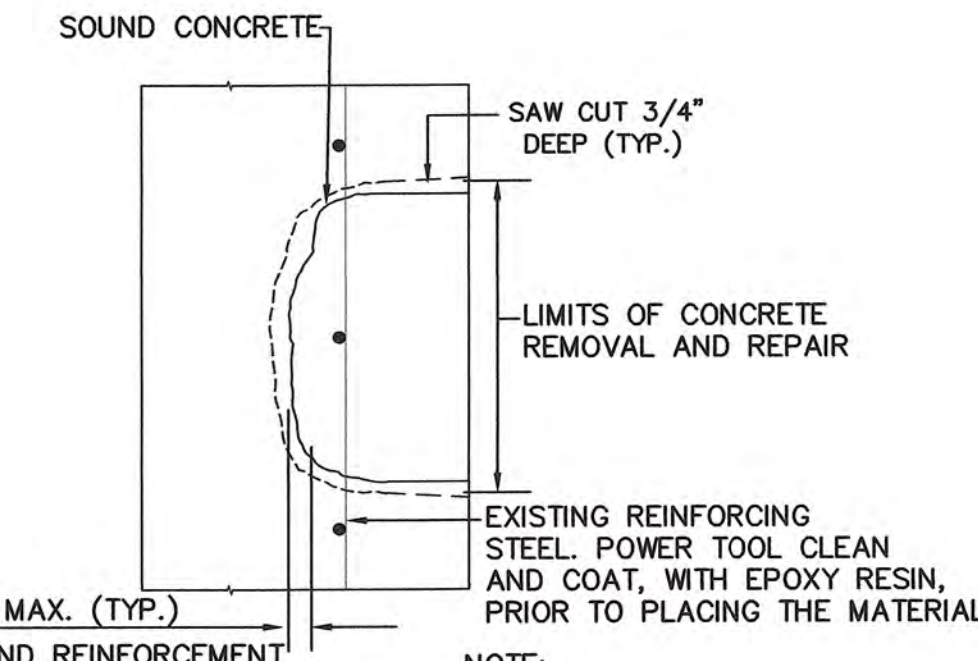
SHALLOW SPALL REPAIRS (TYPE B)



SECTION A-A



PLAN



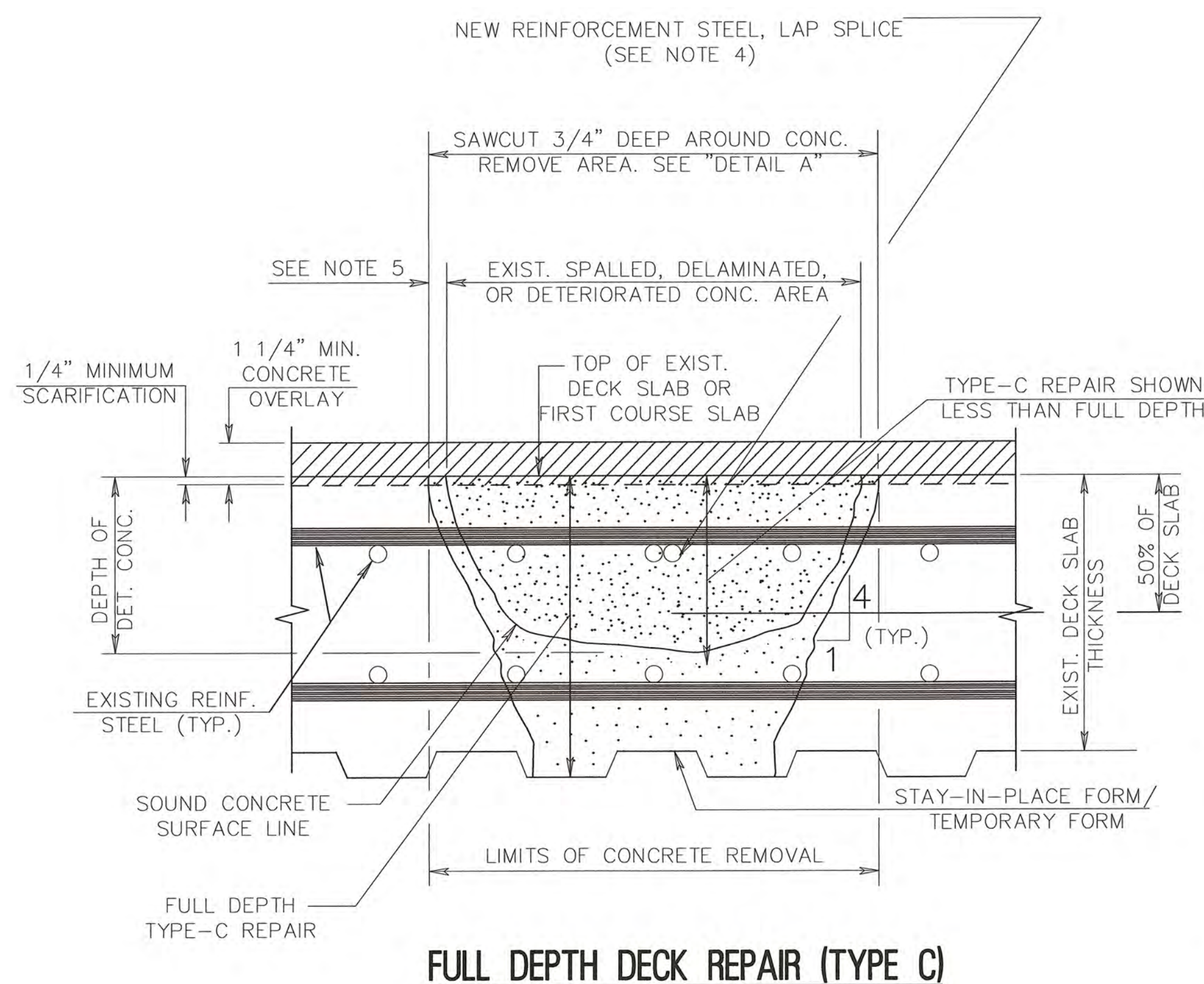
SECTION B-B

TYPE C CONCRETE REPAIR NOTES:

- CLEAN SPALLED, DELAMINATED, AND DETERIORATED CONCRETE AREAS AND REPAIRED WITH THE CONCRETE OVERLAY TYPE USED FOR THE OVERLAY PLACEMENT, OR CLASS A CONCRETE MAY BE USED.
- REPAIR TYPE-C: REMOVE ALL DETERIORATED AND DELAMINATED CONCRETE, AND IF THE SOUND CONCRETE SURFACE IS LOCATED AT A DEPTH GREATER THAN 50% OF THE DECK THICKNESS WHEN MEASURED FROM THE TOP OF THE DECK, PERFORM TYPE-C REPAIR UPON APPROVAL OF THE RE, AS SHOWN IN THE DETAIL "REPAIR TYPE-C". IF THE BOTTOM MAT OF THE DECK REINFORCEMENT STEEL IS EXPOSED, REPLACE THE DECK SLAB TO FULL DEPTH IN THIS AREA OF EXPOSURE.
- ENSURE THAT THE TOP SURFACE OF THE CONCRETE FOR TYPE-C REPAIRS IS EVEN WITH THE ADJACENT TOP OF EXISTING DECK SLAB AND TO MAINTAIN THE EXISTING GRADES AND CROSS SLOPES.
- PLACE NEW EPOXY COATED REINFORCEMENT STEEL TO SUPPLEMENT AN EXISTING REINFORCEMENT STEEL WHEN AN EXISTING ONE HAS A SECTION LOSS OF 25% OR MORE OF THE ORIGINAL CROSS SECTION, AS DETERMINED BY THE RE, OR THE EXISTING REINFORCEMENT STEEL IS BROKEN. THE NEW ONE TO EXTEND 30 BAR DIAMETERS IN EACH DIRECTION FROM WHERE THE SECTION LOSS OR BREAK ENDS. MODIFY THE LIMITS OF THE REPAIR AREA TO MEET THE REINFORCEMENT STEEL SPLICE LAP REQUIREMENTS.
- REMOVE FOR REPAIR TYPE-C SOUND CONCRETE TO A DEPTH OF 1/4" MINIMUM TO 1" MAXIMUM IN ALL DIRECTIONS, EXCEPT THAT THE MAXIMUM LIMIT MAY BE MODIFIED UPON APPROVAL OF THE RE.
- UPON APPROVAL OF THE RE, MODIFY THE LIMITS OF CONCRETE REMOVAL AS SHOWN IN THE "LIMITS OF REPAIR AREA (PLAN VIEW)" WHEN SUPPLEMENTARY REINFORCEMENT STEEL IS REQUIRED.
- DECK REINFORCEMENT STEEL DETAILS SHOWN ARE GENERAL. ACTUAL REINFORCEMENT STEEL SPACINGS AND LOCATIONS WILL VARY FROM BRIDGE TO BRIDGE.
- PLACE NEW REINFORCEMENT STEEL AT THE SAME LEVEL ALONGSIDE THE EXISTING DETERIORATED OR BROKEN REINFORCEMENT STEEL.
- BEFORE PLACEMENT OF THE OVERLAY, REMOVE ALL PREVIOUSLY PATCHED AREAS COMPLETELY.

TYPE B CONCRETE REPAIR NOTES:

- THE CONTRACTOR IS ADVISED TO VISIT THE SITE AND BECOME FAMILIAR TO THE EXTENT OF REQUIRED REPAIRS.
- THE SPALLED AREAS AND EXPOSED REINFORCEMENT/STRAND SHALL BE REPAIRED AS PER DETAILS AND AS PER THE FOLLOWING PROCEDURES:
 - SAWCUT AND REMOVE THE EXISTING DETERIORATED AND HOLLOW SOUNDED CONCRETE TO SOUND CONCRETE OR AS DIRECTED BY THE ENGINEER. MINIMUM DEPTH OF CONCRETE REMOVAL SHALL BE ONE INCH. IF REINFORCEMENT BARS ARE EXPOSED, THE REMOVAL SHALL CONTINUE AT LEAST 1/2" BEYOND THE BARS.
 - THE SURFACE OF THE REMAINING CONCRETE SHALL BE CLEANED OF LOOSE CONCRETE, DUST, AND OTHER FOREIGN MATERIAL. ADHERING CONCRETE SHALL BE REMOVED FROM EXPOSED REINFORCEMENT STEEL.
 - THE SURFACE SHALL RECEIVE A COATING OF THE BONDING COMPOUND "SIKA ARMATEC 110" OR APPROVED EQUAL IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND AS DIRECTED BY THE ENGINEER. A BONDING COMPOUND MAY NOT BE REQUIRED IF THE PATCH MATERIAL DOES NOT REQUIRE A BONDING COMPOUND. CLEAN RUST BY SANDBLAST AND EPOXY COAT EXISTING REINFORCING BAR OR STRAND.
 - PROVIDE MESH WIRE (WWF) AS INDICATED.
 - INSTALL THE NEW FORMWORK, ATTACH FIRMLY TO THE EXISTING CONCRETE SURFACE THROUGH PRELOADED EXPANSION ANCHORS.
 - INSTALL A NON-SHRINK CEMENTITIOUS GROUT IN STRICT ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS REGARDING SURFACE REPARATION, MIXING OF THE REPAIR MATERIAL, APPLICATIONS, AND TIME LIMITATIONS.
- APPLICATION AND CURING AS DIRECTED BY THE ENGINEER
- ALL CONCRETE DEBRIS WILL BE REMOVED BY THE CONTRACTOR
- WELDED STEEL WIRE FABRIC SHALL CONFORM TO ASTM A-185. GAUGE AND SPACING OF WIRE SHALL BE AS INDICATED ON THE PLANS
- PROVIDE ITW RAMSET RED HEAD WEDGE ANCHORS/INSERTS OR APPROVED EQUAL 1/4" DIA. X 3 1/4" OVERALL LENGTH.
- THE CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S RECOMMENDATIONS FOR SURFACE PREPARATION, MIXING OF THE REPAIR MATERIAL, APPLICATIONS, AND TIME LIMITATIONS.
- IF A CONFLICT BETWEEN THESE PROCEDURES AND THE MANUFACTURER'S RECOMMENDATIONS, THE LATTER WILL PREVAIL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY OF THE PATCH MATERIAL IN ANY WEATHER AND OR ATMOSPHERIC CONDITIONS.



FULL DEPTH DECK REPAIR (TYPE C)



REMINGTON & VERNICK ENGINEERS
232 KINGS HIGHWAY EAST
HADDONFIELD, NJ 08033
(856) 795-9595, FAX (856) 795-1882
WEB SITE ADDRESS: WWW.RVE.COM
Certification of Authorization: 24 GA 28003300
-ENGINEERING EXCELLENCE-

DATE: 4.10.19
FRANK J. SENEY JR.
NJ PROFESSIONAL ENGINEER LIC. No. 35321

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.
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NO.	REVISION	DATE	BY	CHK

CONSTRUCTION DETAILS
UNION COUNTY
2018 BRIDGE IMPROVEMENT PROGRAM
UNION COUNTY
VARIOUS MUNICIPALITIES
NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
C.O.G.	P.O.G./E.V.O.	F.J.S.	AS NOTED
DATE:	SHEET No.:		
FEBRUARY 2019	26 of 28		
JOB No.:			
2000F012			

