

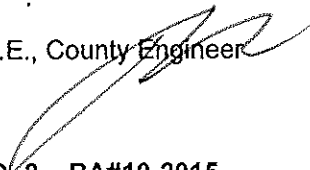


# COUNTY OF UNION

DEPARTMENT OF ECONOMIC DEVELOPMENT

*William Reyes Jr., Deputy County Manager / Director*

**MEMO TO:** To All Potential Bidders

**FROM:** Thomas O. Mineo, P.E., County Engineer 

**DATE:** March 12, 2015

**RE:** CLARIFICATION NO. 2 – BA#10-2015  
Union County Engineering Project #2014-038  
2015 Road Resurfacing Program  
NJDOT County Aid No. CA-2014

**BOARD OF  
CHOSEN FREEHOLDERS**

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*Vice Chairman*

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ALEXANDER MIRABELLA

VERNELL WRIGHT

ALFRED J. FAELLA  
*County Manager*

WILLIAM REYES, JR.  
*Deputy County Manager*

ROBERT E. BARRY, ESQ.  
*County Counsel*

JAMES E. PELLETIERE  
*Clerk of the Board*

THOMAS O. MINEO, P.E.  
*County Engineer,  
Director, Division of  
Engineering*

The following are responses received for the above referenced project:

Q: Upon review of the specifications for the above referenced bid, we have come across a question for the insurance requirements. Section 11 of the County specifications state that the following insurances are required to be provided by the Contractor:

Commercial General Liability  
Auto Liability  
WC

Professional Liability (if design/build) – N/A

Contractor's Pollution Liability (if project involves environmental hazards) – N/A

Builders Risk (for major renovations) – N/A

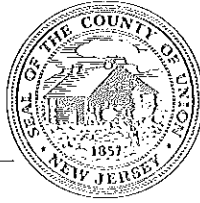
Under the State specifications, Section 152 – Insurance, it refers to Railroad Protective Liability insurance. We know that DOT projects usually require an OCP policy.

Can you please clarify what insurances are required for this project?

A: Section 11 of the General Specifications indicates the requirements for Commercial General Liability, Auto Liability and Workers Compensation coverage. Section 11 indicates coverage is not required for Professional Liability, Contractor's Pollution Legal Liability and Builders Risk since the contract does not include design or building work and contact with environmental hazards is not anticipated. Section 152 of the NJDOT Standard Specifications for Road and Bridge Construction, 2007 edition, as modified by Section 152 of the Technical Specifications indicates additional requirements for Owner's and Contractor's Protective Liability Insurance and Railroad Protective Liability Insurance coverage.

Cc: Rosalba L. Comas, Esq., 1<sup>st</sup> Deputy County Counsel  
William Reyes, Jr., Deputy County Manager, Director / Department of Economic Development  
Joseph A. Graziano, Sr., CPWM, Director / Department of Public Works and Facilities  
Paul J. Leso, P.E., PLS, Supervising Engineer/Division of Engineering

**DIVISION OF ENGINEERING**



# COUNTY OF UNION

DEPARTMENT OF ECONOMIC DEVELOPMENT  
*William Reyes Jr., Deputy County Manager / Director*

**BOARD OF  
CHOSEN FREEHOLDERS**

**MOHAMED S. JALLOH**  
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**BETTE JANE KOWALSKI**

**ALEXANDER MIRABELLA**

**VERNELL WRIGHT**


**ALFRED J. FAELLA**  
*County Manager*

**WILLIAM REYES, JR.**  
*Deputy County Manager*

**ROBERT E. BARRY, ESQ.**  
*County Counsel*

**JAMES E. PELLETTIERE**  
*Clerk of the Board*

**THOMAS O. MINEO, P.E.**  
*County Engineer,  
Director, Division of  
Engineering*

**MEMO TO:** To All Potential Bidders  
**FROM:** Thomas O. Mineo, P.E., County Engineer   
**DATE:** March 2, 2015  
**RE:** CLARIFICATION NO. 1 – BA#10-2015  
Union County Engineering Project #2014-038  
2015 Road Resurfacing Program  
NJDOT County Aid No. CA-2014

The following are responses received for the above referenced project:

- Q:** Can you please clarify item # 65 image detector 10 Units being bid, are we to assume this item is for a single image detector camera or does the County plan in installing a multi camera system at certain locations (this item is if and where directed). Multi camera systems versus a single camera vary greatly in price, the NJDOT typically bids multi camera systems as "image detector system, 2 camera" (or however many cameras they want in the system). If you could please let me know what the County wants so we can properly bid the item we would appreciate it.
- A:** Payment for Item No. 65, Image Detector, will be made per camera installed. The installation of cables, installation of image detection controller units and the activation of the image detection systems are incidental and included in the unit price for Image Detectors. The specific locations and configurations of each image detection system will be determined during construction. Existing loop detector cables interfering with or impacted by milling operations shall be replaced with video detection where this upgrade is feasible. Where the upgrade to video detection is not feasible, loop detectors shall be replaced in kind in accordance with as-built plans provided by the County or as directed by the Engineer. Signalized intersections converted from loop detection to video detection will require inspection by a qualified technician retained by the Contractor of the traffic signal controller to confirm conversion to video detection is possible without complete replacement of the existing traffic signal controller and its equipment.

**Cc:** Rosalba L. Comas, Esq., 1<sup>st</sup> Deputy County Counsel  
William Reyes, Jr., Deputy County Manager, Director / Department of  
Economic Development  
Joseph A. Graziano, Sr., CPWM, Director / Department of Public Works  
and Facilities  
Paul J. Leso, P.E., PLS, Supervising Engineer/Division of Engineering

**DIVISION OF ENGINEERING**



**SPECIFICATIONS  
FOR  
2015 ROAD RESURFACING PROGRAM  
BA#10-2015; UNION COUNTY ENGINEERING PROJECT #2014-038  
NJDOT COUNTY AID NO.: CA-2014**

**FEBRUARY 2015**

**UNION COUNTY OFFICIALS  
BOARD OF CHOSEN FREEHOLDERS**

Mohamed S. Jalloh, Chairman  
Bruce H. Bergen, Vice Chairman  
Linda Carter, Freeholder  
Angel G. Estrada, Freeholder  
Sergio Granados, Freeholder  
Christophe Hudak, Freeholder  
Bette Jane Kowalski, Freeholder  
Alexander Mirabella, Freeholder  
Vernell Wright, Freeholder

**CLERK OF THE BOARD**

James E. Pellettiere

**COUNTY MANAGER**

Alfred J. Faella

**DEPARTMENT OF ECONOMIC DEVELOPMENT**

William Reyes, Jr., Deputy County Manager  
Director of Economic Development

**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 & Arango Engineers  
300 Penhorn Avenue, 3<sup>rd</sup> Floor  
Secaucus, New Jersey 07094  
T: 201-624-2137  
[www.rve.com](http://www.rve.com)

**COUNTY OF UNION  
NOTICE TO BIDDERS**

Sealed bids will be received by the director of the Division of Purchasing, or his designee, at the County of Union, New Jersey on March 24, 2015 at 2:30 p.m., prevailing time, in the 3<sup>rd</sup> Floor Conference Room, U.C. Administration Building, 10 Elizabethtown Plaza, Elizabeth, New Jersey for:

**2015 ROAD RESURFACING PROGRAM  
BA#10-2015; UNION COUNTY ENGINEERING PROJECT #2014-038**

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.

Bids shall be submitted in a sealed envelope and clearly marked with the subject of the bid, name and address of the bidder, phone and fax number, and date of the bid opening. Each bid must be delivered to the Division of Purchasing prior to the stated time of the opening of the bids. No late bids will be accepted. The County will not be responsible for late delivery by the U.S. Mail or any other carrier.

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

**MICHAEL M. YUSKA – DIRECTOR OF PURCHASING**

**UNION COUNTY BOARD  
OF CHOSEN FREEHOLDERS**

***We're Connected to You!***

NB-1



## 2015 ROAD RESURFACING PROGRAM

BA#10-2015; Union County Engineering Project No. 2014-038

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(Draft form until contract is awarded)

**PROJECT TECHNICAL SPECIFICATIONS**

**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, 6<sup>th</sup> Floor.  
10 Elizabethtown Plaza  
Elizabeth, New Jersey 07207

**ADDRESS BIDS AND SUBMIT TO:**

Union County Division of Purchasing  
UC Administration Building, 3<sup>rd</sup> Floor  
10 Elizabethtown Plaza  
Elizabeth, NJ 07207  
Attn: Michael Yuska, QPA, Director, Division of Purchasing  
Telephone: 908-527-4130  
Facsimile: 908-558-2548

**TITLE OF PROJECT: 2015 ROAD RESURFACING PROGRAM  
BA#10-2015; UNION COUNTY ENGINEERING PROJECT #2014-038**

**BIDDER: Bidder shall be a single overall contract bidder**

**ENGINEER:** Remington Vernick & Arango Engineers  
300 Penhorn Avenue, 3<sup>rd</sup> Floor  
Secaucus, New Jersey 07094  
T: 201-624-2137  
F: 201-6242136  
Email: Daniel.McGinnis@rve.com

**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](mailto:tmineo@ucnj.org)

## 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. (See AIA Owner/Contractor Agreement & General Conditions attached.)

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 38, 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 Michael M. Yuska, QPA, 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, Michael M. Yuska, 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. 34:11-56a.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 Resolutions No. 1148-98 and 1167-98 adopted by the Board of Chosen Freeholders on September 24, 1998. The resolutions are furnished in Section 50 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**

No survey has been performed for this project. Any surveying required will be the responsibility of the Contractor.

### **24. NUMBER OF WORKING DAYS**

In accordance with NJSA 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 NJSA 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 NJSA 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 NJSA 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 NJSA 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 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 38. 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**

Contracts will be let on the attached Form of Agreement Between County ("Owner") and Contractor (AIA 101), and General Conditions (AIA 201), as supplemented.

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 NJSA 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 16 of these general specifications); b) Certification of Compliance, New Jersey Prevailing Wage Act (see Sections 22 & 51); and c) General Release (see Section 37) 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:

(l) 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 NJSA 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 - (NJSA 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 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. RESOLUTION NO. 1148-98 AND 1167-98 ADOPTED ON  
SEPTEMBER 24, 1998 BY THE BOARD OF CHOSEN  
FREEHOLDERS**

In addition to compliance with the New Jersey Prevailing Wage Act, the Contractor shall comply with the requirement as set forth in Resolutions No. 1148-98 and 1167-98 adopted on September 24, 1998 by the Union County Board of Chosen Freeholders.

**UNION COUNTY BOARD OF CHOSEN FREEHOLDERS RESOLUTION NO. 1148-98  
DATED: 9/24/98**

**WHEREAS**, the Public Contract Law of New Jersey that all contractors and subcontractors pay to the workforce on such projects the prevailing wage rates; and

**WHEREAS**, it has come to the attention of the Board of Chosen Freeholders that workmen have not at all times received such wages; and

**WHEREAS**, while the Board of Chosen Freeholders is aware that the State of New Jersey is the actual enforcing arm for such requirements, the Board desires to itself on behalf of such workers put in place a procedure which will further protect the rights of the workers to the payment of accurate and fair wages:

**NOW, THEREFORE, BE IT RESOLVED**, by the Board of Chosen Freeholders of the County of Union; hereby declares that henceforth, as a matter of POLICY;

- (1) The bidder and all contractors and subcontractors on any project for the County of Union must comply with the Prevailing Wage Law of the State of New Jersey, N.J.S.A. 34:11-56.25 et seq., and its regulations, N.J.A.C. 12:60-1 et seq.
- (2) As per N.J.S.A. 34:11-56.29 the County shall have the right to inspect the books and records of every contractor and subcontractor showing the name, craft or trade, and actual hourly rate of wages paid to each worker employed by the contractor in connection with a public work. Further the County shall have the right to demand such proof as necessary to verify said records.
- (3) All contractors shall post the prevailing wage rates for each craft and classification involved in prominent and easily accessible places at the site of the work.
- (4) All public works specifications and contracts shall include a clause that requires all contractors and subcontractors to submit properly executed Worker Notification Acknowledgment forms to the County. These forms will be supplied by the County to all approved contractors and subcontractors; a copy of such form is attached as Appendix A. These forms will provide proof that all workers have been made aware of their rights to receive the prevailing wage for the particular craft or trade for which they are employed.
- (5) This resolution shall apply to any projects bid after the passage of this Resolution and shall not apply to any project already under construction or for which bid specifications have been issued.



**EMPLOYEE NOTIFICATION ACKNOWLEDGMENT FORM\***

Pursuant to N.J.S.A 34:11-56.25 *et seq.* as well as N.J.A.C. 12:60 *et seq.*, the Contractor,

\_\_\_\_\_, has informed me that I will be employed as a  
(Name of Contractor)

\_\_\_\_\_, on the public project designated as, \_\_\_\_\_.  
(Employee's Job Title) (Project Name)

I further acknowledge that my compensation for this job will be \_\_\_\_\_, plus (+) the  
Fringe Benefits (\$ per hour)  
\_\_\_\_\_ for a Total Prevailing Wage of \_\_\_\_\_. This total is pursuant to the  
(\$ per hour) (\$ per hour)  
Prevailing Wage for Construction Trades in Union County.

DATE: \_\_\_\_\_

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Sign Name)

**Employer Certification**

I hereby certify as to the accuracy of the above information.

DATE: \_\_\_\_\_

\_\_\_\_\_  
(Name of Company Officer)

\_\_\_\_\_  
(Signature of Company Officer)

\*This acknowledgment form is a public record that will be kept to determine compliance with N.J.S.A. 34:11-56.25 *et seq.* Falsification of a public record is a crime. Union County reserves the right to prosecute violators of the Prevailing Wage Act to the fullest extent possible, including, but not limited to, fraud upon a public agency, theft of services, theft of deception, and misrepresentation of public records.

White Copy = Labor Compliance Officer  
Pink = Employee

Yellow = Contractor

**UNION COUNTY BOARD OF CHOSEN FREEHOLDERS RESOLUTION NO. 1167-98**

**DATED: 9/24/98**

**WHEREAS**, the County of Union finds that it is essential to the public safety that any and all public works be performed by competent and trained employees of responsible contracts and subcontractors; and

**WHEREAS**, the State of New Jersey has recognized and provided for training of employees through Apprenticeship Programs licensed by the State of New Jersey; and

**WHEREAS**, the County of Union has the right and responsibility to determine that all contractors and subcontractors who perform public work be qualified according to consistent and uniformly applied standards; and

**WHEREAS**, it is important that the County of Union use a contractor and/or subcontractor who acts with responsibility in complying with applicable wage laws:

**NOW, THEREFORE, BE IT RESOLVED**, that all applicable regulations, bid specifications and rules of the County of Union shall state that:

- (1) The bidder and all contractors and subcontractors on any project for the County of Union must comply with the Prevailing Wage Law of the State of New Jersey, N.J.S.A. 34:11-56.25 et seq., and its regulations, N.J.A.C. 12:60-1, et seq. Employer contributions for employee benefits pursuant to a then existing bona fide collective bargaining agreement shall be considered an integral part of the wage rate paid by employers of any craft or trade in Union County for the purpose of determining the prevailing wage.
- (2) As per N.J.S.A. 34:11-56.29 the County shall have the right to inspect the books and records of every contractor and subcontractor showing the name, craft or trade and actual hourly rate of wages paid to each work man employed by him in connection with a public work. Further, the County shall have the right to demand such proof as is necessary to verify said records.

All contractors shall post the prevailing wage rates for each craft and classification involved in prominent and easily accessible places at the site of the Work.

- (3) The bidder, and all contractors and subcontractors must employ the ratio of apprentices to journeymen as set forth by the Commissioner of Labor in determining the Prevailing Wage, or, if no such ratio has been established, than at a ratio of one apprentice to every four journeymen.

An apprentice is an individual who, while performing Work on a public project, is registered, in good standing, in an apprenticeship program approved or certified by the Division of Vocational Education in the New Jersey Department of Education or by the Bureau of Apprenticeship and Training in the United States Department of Labor.

A contractor or subcontractor employing one or more apprentices on a public work project shall maintain with its records written evidence that the apprenticeship

program while performing Work on the Project. The contractor or subcontractor shall make all records available for inspection by Union County and by the Commissioner during normal business hours.

Union County and the Commissioner shall have unencumbered access to the employees who are employed on a public project for the purpose of interviewing and determining compliance.

A contractor or subcontractor shall not create job titles and worker classifications that are not consistent with prevailing practices and existing task ratios for a specific building trade's craft for the purpose of circumventing the intent of this resolution.

- (4) The bidder, and all contractors and subcontractors must properly classify workers as employees and not as independent contractors, and treat them accordingly for purposes of wages, benefits, workers compensation insurance coverage, unemployment taxes, social security tax and income tax withholding. The criteria identified in the Unemployment Compensation Law at N.J.S.A. 43:21-19(1)(6)(a)(b)(c) and interpreting case law will be used to determine whether a worker is an employee or independent contractor for purposes of this resolution.
- (5) The bidder, and all contractors and subcontractors shall comply with the Prevailing Wage Act and its regulations regarding payment of fringe benefits.
- (6) Any bidder, contractor or subcontractor who fails to maintain throughout the entire duration of the Project full compliance with the foregoing requirements and qualifications shall be subject to one or more of the following sanctions:
  - A. Cessation of Work.
  - B. Removal from Project.
  - C. Withholding of payment until compliance is obtained.
  - D. Damages resulting from efforts taken to correct or sanction for failure to comply, such as costs of delay, or of obtaining new Contractor to complete Work.
- (7) A general contractor shall be liable for any violations by any subcontractors. The County reserves the right to investigate project sites for any and all possible violations. Contractors who have been determined to be in violation of this Resolution on any project for Union County will be reported to the Commissioner of Labor that debarment proceedings be instituted against the delinquent contractor.
- (8) The foregoing qualifications and requirements shall be binding on any and all bidders, contractors and subcontractors who perform Work on any public work, as defined in the Prevailing Wage Act, bid by the County of Union without regard to their affiliation, or lack of affiliation, to any labor or construction organization or association, and shall not be deemed to require or mandate the use of employees who are members of unions or any labor organization.

- (9) This Resolution shall apply to any projects bids after the passage of this Resolution and shall not apply to any project already under construction or for which bid specifications have been issued.

**52. 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.

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### **53. 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.

### **54. AMERICAN GOODS AND PRODUCTS WHERE POSSIBLE**

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

### **55. 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 NJSA 19A:44A-1 et. seq. are NOT REQUIRED to be provided with the bids.

### **56. STATEMENT OF EQUIPMENT TO BE USED IN CONSTRUCTION**

Pursuant to NJSA 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.

### **57. 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," (NJSA 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).



ALFRED J. FAELLA  
COUNTY MANAGER

MICHAEL M. YUSKA, 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: \_\_\_\_\_

**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 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 – Public Works Contractor Registration Act. **(Only for certain types of work)**
- Federal Attachments **(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
- Certificate of Insurance Statement
- Collection of Use Tax on Sales to Local Government Statement
- Time of Completion
- Disclosure of Investment Activities in Iran 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**
- **OWNER-CONTRACTOR AGREEMENT (AIA 101) AND GENERAL CONDITIONS (AIA 201)**
- **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

**2015 ROAD RESURFACING PROGRAM**

**BA No.: 10-2015; Union County Engineering Project No.: 2014-038**

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	4	UN	PORTABLE VARIABLE MESSAGE SIGN	\$	\$
2	2	UN	TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION	\$	\$
3	1500	HR	TRAFFIC DIRECTOR, FLAGGER	\$	\$
4	1	LS	TRAFFIC CONTROL MEASURES	\$	\$
5	4	UN	FLOODLIGHTS FOR NIGHTTIME OPERATIONS	\$	\$
6	DOLLAR	DOLLAR	TRAFFIC DIRECTOR, UNIFORM POLICE	\$100,000.00	\$100,000.00
7	0	-	NO ITEM	\$	\$
8	DOLLAR	DOLLAR	FUEL PRICE ADJUSTMENT	\$30,000.00	\$30,000.00
9	DOLLAR	DOLLAR	ASPHALT PRICE ADJUSTMENT	\$10,000.00	\$10,000.00
10	200	CY	EXCAVATION, UNCLASSIFIED	\$	\$
11	200	CY	DENSE-GRADED AGGREGATE BASE COURSE, VARIABLE THICKNESS	\$	\$

ITEM	CONTRACT QUANTITY	UNITS	DESCRIPTION	UNIT PRICE	AMOUNT
12	294000	SY	HMA MILLING, 3" OR LESS	\$	\$
13	100	SY	HMA MILLING, MORE THAN 3" TO 6"	\$	\$
14	1600	SY	HOT MIX ASPHALT PAVEMENT REPAIR	\$	\$
15	0	-	NO ITEM	\$	\$
16	34500	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE	\$	\$
17	500	TON	HOT MIX ASPHALT 9.5M64 LEVELING COURSE	\$	\$
18	0	-	NO ITEM	\$	\$
19	0	-	NO ITEM	\$	\$
20	5500	SF	SAWCUT GROOVED DECK SURFACE	\$	\$
21	500	SF	REPAIR OF CONCRETE DECK, TYPE B	\$	\$
22	100	SF	REPAIR OF CONCRETE DECK, TYPE C	\$	\$
23	0	-	NO ITEM	\$	\$
24	520	UN	RESET EXISTING CASTING	\$	\$
25	0	-	NO ITEM	\$	\$
26	0	-	NO ITEM	\$	\$
27	0	-	NO ITEM	\$	\$

ITEM	CONTRACT QUANTITY	UNITS	DESCRIPTION	UNIT PRICE	AMOUNT
28	0	-	NO ITEM	\$	\$
29	0	-	NO ITEM	\$	\$
30	0	-	NO ITEM	\$	\$
31	10	UN	RECONSTRUCTED INLET, TYPE B, USING EXISTING CASTING	\$	\$
32	0	-	NO ITEM	\$	\$
33	0	-	NO ITEM	\$	\$
34	0	-	NO ITEM	\$	\$
35	0	-	NO ITEM	\$	\$
36	0	-	NO ITEM	\$	\$
37	0	-	NO ITEM	\$	\$
38	0	-	NO ITEM	\$	\$
39	0	-	NO ITEM	\$	\$
40	0	-	NO ITEM	\$	\$
41	0	-	NO ITEM	\$	\$
42	0	-	NO ITEM	\$	\$
43	110	UN	BICYCLE SAFE GRATE	\$	\$

ITEM	CONTRACT QUANTITY	UNITS	DESCRIPTION	UNIT PRICE	AMOUNT
44	110	UN	CURB PIECE	\$	\$
45	0	-	NO ITEM	\$	\$
46	3700	SY	CONCRETE SIDEWALK, 4" THICK	\$	\$
47	340	SY	DETECTABLE WARNING SURFACE	\$	\$
48	0	-	NO ITEM	\$	\$
49	3800	LF	10" X 20" CONCRETE VERTICAL CURB	\$	\$
50	1000	LF	BELGIAN BLOCK CURB	\$	\$
51	0	-	NO ITEM	\$	\$
52	122000	LF	TRAFFIC STRIPES, THERMOPLASTIC, 4"	\$	\$
53	18500	LF	TRAFFIC STRIPES, THERMOPLASTIC, 8"	\$	\$
54	16000	LF	TRAFFIC STRIPES, THERMOPLASTIC, 12"	\$	\$
55	4300	LF	TRAFFIC STRIPES, THERMOPLASTIC, 24"	\$	\$
56	3000	SF	TRAFFIC MARKINGS, THERMOPLASTIC	\$	\$
57	300	UN	RPM, MONO-DIRECTIONAL, WHITE LENS	\$	\$
58	200	UN	RPM, MONO-DIRECTIONAL, AMBER LENS	\$	\$
59	950	UN	RPM, BI-DIRECTIONAL, AMBER LENS	\$	\$
60	0	-	NO ITEM	\$	\$

ITEM	CONTRACT QUANTITY	UNITS	DESCRIPTION	UNIT PRICE	AMOUNT
61	200	SF	STREET NAME SIGN, TYPE DF, BREAKAWAY SUPPORT	\$	\$
62	300	SF	ACCESSORY PANEL, TYPE DF	\$	\$
63	20	UN	RELOCATE SIGN	\$	\$
64	3000	LF	LOOP DETECTOR	\$	\$
65	10	UN	IMAGE DETECTOR	\$	\$
66	0	-	NO ITEM	\$	\$
67	2000	SY	TOPSOILING, 4" THICK	\$	\$
68	2000	SY	FERTILIZING AND SEEDING, TYPE A-3	\$	\$

**TOTAL BASE BID ITEMS:**

\_\_\_\_\_ \$ \_\_\_\_\_  
 Written Figures

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

One Hundred Fifty Thousand Dollars \$150,000.00  
 Written Figures

**TOTAL BASE BID ITEMS PLUS BID CONTINGENCY:**

\_\_\_\_\_ \$ \_\_\_\_\_  
 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 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.**

Bidder's Name \_\_\_\_\_

**BIDDER DISCLOSURE STATEMENT**

N.J.S.A. 52:25-24.2 (P.L. 1977 c. 33)

Failure of the bidder/respondent to submit the required information is cause for automatic rejection.

**CHECK ONE**

I certify that the list below contains the names and home addresses of all stockholders holding 10% or more of the issued and outstanding stock of the undersigned.

**OR**

I certify that no one stockholder owns 10% or more of the issued and outstanding stock of the undersigned.

**LEGAL NAME OF BIDDER:** \_\_\_\_\_

**Check the box that represents the type of business organization:**

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Partnership              | <input type="checkbox"/> Corporation               | <input type="checkbox"/> Sole Proprietorship           |
| <input type="checkbox"/> Limited Partnership      | <input type="checkbox"/> Limited Liability Company | <input type="checkbox"/> Limited Liability Partnership |
| <input type="checkbox"/> Subchapter S Corporation |  |  |

**Complete if the bidder/respondent is one of the 3 types of corporations:**

**Date Incorporated:** \_\_\_\_\_ **Where Incorporated:** \_\_\_\_\_

**BUSINESS ADDRESS:**

\_\_\_\_\_  
**Street Address** **City** **State** **Zip Code**

\_\_\_\_\_  
**Telephone #** **Fax #**

Pursuant to N.J.S.A. 52:25-24.2, also referred to as P.L. 1977, c. 33, no corporation or partnership shall be awarded any contract for the performance of any work or the furnishing of any materials or supplies, unless, prior to the receipt of the bid or accompanying the bid of said corporation or partnership, there is submitted a statement setting forth the names and addresses of all stockholders in the corporation or partnership who own ten (10) percent or more of its stock of any class, or of all individual partners in the partnership who own a ten (10) percent or greater interest therein. Further, the Attorney General has concluded that the provisions of N.J.S.A. 52:25-24.2, in referring to corporations and partnerships, are intended to apply to all forms of corporations and partnerships, including, but not limited to, limited partnerships, limited liability corporations, limited liability partnerships, and Subchapter S corporations.

Bidders are required to disclose whether they are a partnership, corporation or sole proprietorship. The Stockholder Disclosure Certification form shall be completed, signed and notarized. Failure of the bidder to submit the required information is cause for automatic rejection of the bid.

Bidder's Name \_\_\_\_\_

**BIDDER DISCLOSURE STATEMENT** – (Continued)

N.J.S.A. 52:25-24.2, also referred to as P.L. 1977, Ch. 33, requires all corporate and partnership bidders for state, county, municipal or school district contracts to submit a list of names and addresses of all stockholders owning 10% or more of their stock or 10% or more of the stock of the corporate stockholders or in the case of partnership the names and addresses of those partners owning 10% or greater interest in the partnership. Furthermore, the Union County Board of Chosen Freeholders requires a statement from all Bidders, which must indicate all Principals of Bidders.

You must set forth the name, home address, title and percentage of ownership of every person who is an owner of the bidder. You must also set forth the business form of the bidder.

II. Principals:

	NAME	HOME ADDRESS	TITLE	% OF OWNERSHIP
1.				
2.				
3.				
4.				

If one or more of the owners of the Bidder is itself a corporation or partnership, then for that corporation or partnership owner you must set for the name, home address, title and percentage of ownership of every person who is an owner of that corporation or partnership.

	NAME	HOME ADDRESS	TITLE	% OF OWNERSHIP
1.				
2.				
3.				
4.				

Bidder's Name \_\_\_\_\_

**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.

**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

2015 Road Resurfacing Program  
(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](http://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.



Bidder's Name \_\_\_\_\_



**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

<b>STATE OF NEW JERSEY</b> <b>BUSINESS REGISTRATION CERTIFICATE</b> <b>FOR STATE AGENCY AND CAREER SERVICE CONTRACTORS</b>			<b>STATE OF NEW JERSEY</b> <b>BUSINESS REGISTRATION CERTIFICATE</b>
<b>TAXPAYER NAME:</b> TAX REGISTRATION TEST ACCOUNT	<b>TRACS NAME:</b> CLIENT REGISTRATION	<b>Taxpayer Name:</b> TAX REG TEST ACCOUNT	
<b>TAXPAYER IDENTIFICATION:</b> 970-071302000	<b>SEQUENCE NUMBER:</b> 000732	<b>Trade Name:</b>	
<b>ADDRESS:</b> 847 ROEBLING AVE TRENTON NJ 08611	<b>ISSUANCE DATE:</b> 07/10/04	<b>Address:</b> 847 ROEBLING AVE TRENTON, NJ 08611	
<b>EFFECTIVE DATE:</b> 08/01/04		<b>Certificate Number:</b> 1003907	
<b>FOR OFFICE USE ONLY:</b>		<b>Date of Issuance:</b> October 14, 2004	
			<b>For Office Use Only:</b> 20041014112023533

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

**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.

Give name of project, owner's name and address, contact person, and phone number, type of work, when started and completed, and dollar amount of work.

\_\_\_\_\_  
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 \_\_\_\_\_, 200 \_\_\_\_.

\_\_\_\_\_  
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. 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  
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](mailto:contreg@dol.state.nj.us)

Bidder's Name \_\_\_\_\_

**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.S12.101 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 \_\_\_\_\_

Bidder's Name \_\_\_\_\_

**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 engaged in construction or contracting business under present firm or trade name? \_\_\_\_\_
6. Contracts on hand: (Show gross amount of each Contract and the appropriate dates of Completion)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
7. General character of work performed by you. \_\_\_\_\_  
\_\_\_\_\_
8. Have you ever failed to complete any work awarded to you? \_\_\_\_\_  
\_\_\_\_\_
9. Have you ever defaulted on a Contract? \_\_\_\_\_ If so, complete details, including where and why?  
\_\_\_\_\_  
\_\_\_\_\_



Bidder's Name \_\_\_\_\_

**STATEMENT OF BIDDER'S QUALIFICATIONS - (continued)**

10. List your major equipment available for this Contract. (Attach separate sheet, if necessary)

\_\_\_\_\_  
\_\_\_\_\_

11. Experience in the Construction work similar in importance to this Project.

\_\_\_\_\_  
\_\_\_\_\_

12. 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.

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

\_\_\_\_\_  
\_\_\_\_\_

14. Bank Reference. (Name, Address, Phone, Representative) \_\_\_\_\_

15. Will you, upon request, fill out a detailed financial statement and furnish any other information that may be required by the proper agency? \_\_\_\_\_

16. The undersigned, hereby authorized and requests any person, firm or corporation to furnish any information requested by the proper agency in verification of the recitals comprising this Statement of Bidder's Qualifications.

17. Bidder's telephone number, fax number and e-mail address (if applicable).

Phone \_\_\_\_\_

Fax \_\_\_\_\_

E-mail \_\_\_\_\_

Mobile \_\_\_\_\_

Bidder's Name \_\_\_\_\_

**STATEMENT OF BIDDER'S QUALIFICATIONS - (continued)**

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**

How many years has your organization been in business as a Contractor under your present business name?

How many years' experience in construction work has your organization had (a) as a general contractor? \_\_\_\_\_ (b) As a subcontractor? \_\_\_\_\_

What is the construction experience of the principal individuals of your organization?

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

Have you ever failed to complete any work contracted to you?

If so, where and why? (Attach separate sheet if necessary)

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.



Explain "Yes" answers under following item.

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

Bidder's Name \_\_\_\_\_

**CONTRACTOR'S PERFORMANCE RECORD** - (Continued)

Explanation of details in connection with non-completion of contracts, time extensions, penalties imposed, labor troubles experience, liens, claims and notices filed again contracts listed in preceding item "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\_\_.

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





Bidder's Name \_\_\_\_\_

**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.

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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.

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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.

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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.

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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.**

Bidder's Name: \_\_\_\_\_

**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: 2015 Road Resurfacing Program**

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 \_\_\_\_\_

**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 Eighty (180) 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

COUNTY OF UNION NEW JERSEY  
Division of Purchasing

DISCLOSURE OF INVESTMENT ACTIVITIES IN IRAN

Solicitation Number: \_\_\_\_\_ Bidder/Offeror: \_\_\_\_\_

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 the person or entity, or one of the person or entity's parents, subsidiaries, or affiliates, is not identified on a list created and maintained by the Department of the Treasury as a person or entity engaging in investment activities in Iran. If the Director finds a person or entity to be in violation of the principles which are the subject 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 person or entity.

**I certify, pursuant to Public Law 2012, c. 25, that the person or entity listed above for which I am authorized to bid/renew:**

is not providing goods or services of \$20,000,000 or more in the energy sector of Iran, including a person or entity that provides oil or liquefied natural gas tankers, or products used to construct or maintain pipe lines used to transport oil or liquefied natural gas, for the energy sector of Iran,  
AND

is not a financial institution that extends \$20,000,000 or more in credit to another person or entity, for 45 days or more, if that person or entity will use the credit to provide goods or services in the energy sector in Iran.

In the event that a person or entity is unable to make the above certification because it or one of its parents, subsidiaries, or affiliates has engaged in the above-referenced activities, a detailed, accurate and precise description of the activities must be provided in part 2 below to the Division of Purchase under penalty of perjury. Failure to provide such 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 FURTHER INFORMATION RELATED TO INVESTMENT ACTIVITIES IN IRAN. You must provide, accurate and precise description of the activities of the bidding person/entity, or one of its parents, subsidiaries or affiliates, engaging in the investment activities in Iran outlined above by completing the boxes below.

Name \_\_\_\_\_ Relationship to Bidder/Offeror \_\_\_\_\_

Description of Activities \_\_\_\_\_

Duration of Engagement \_\_\_\_\_ Anticipated Cessation Date \_\_\_\_\_

**DISCLOSURE OF INVESTMENT ACTIVITIES IN IRAN - (Continued)**

Bidder/Offeror  
Contact Name \_\_\_\_\_ Contact Phone Number \_\_\_\_\_

Certification: I, being duly sworn upon my oath, hereby represent and state that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I attest that I am authorized to execute this certification on behalf of the above referenced person or entity. I acknowledge that Union County is relying on the information contained herein and hereby acknowledge that I am under a continuing obligation from the date of this certification through the completion of any contracts with the County to notify the County in writing of any changes to the answers of information contained herein. I acknowledge 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 recognize that I am subject to criminal prosecution under the law and that it will also constitute a material breach of my agreement(s) with Union County, New Jersey and that the County at its option may declare any contract(s) resulting from this certification void and unenforceable.

Full Name (Print) \_\_\_\_\_ Signature \_\_\_\_\_

Title \_\_\_\_\_ Date \_\_\_\_\_



## 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 (AASHO), 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.

# DRAFT AIA Document A101™ - 2007

## Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum

AGREEMENT made as of the  day of  in the year   
(In words, indicate day, month and year.)

BETWEEN the Owner:  
(Name, legal status, address and other information)

and the Contractor:  
(Name, legal status, address and other information)

for the following Project:  
(Name, location and detailed description)

The County Engineer or his designee:  
(Name, legal status, address and other information)

The Owner and Contractor agree as follows.

**ADDITIONS AND DELETIONS:**  
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An Additions and Deletions Report that notes added information as well as revisions to the standard form text is available from the author and should be reviewed.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

AIA Document A201™-2007, General Conditions of the Contract for Construction, is adopted in this document by reference. Do not use with other general conditions unless this document is modified.

ELECTRONIC COPYING of any portion of this AIA Document to another electronic file is prohibited and constitutes a violation of copyright laws as set forth in the footer of this document.

TABLE OF ARTICLES

- 1 THE CONTRACT DOCUMENTS
- 2 THE WORK OF THIS CONTRACT
- 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION
- 4 CONTRACT SUM
- 5 PAYMENTS
- 6 DISPUTE RESOLUTION
- 7 TERMINATION OR SUSPENSION
- 8 MISCELLANEOUS PROVISIONS
- 9 ENUMERATION OF CONTRACT DOCUMENTS
- 10 INSURANCE AND BONDS

ARTICLE 1 THE CONTRACT DOCUMENTS

The Contract Documents consist of this Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to execution of this Agreement, other documents listed in this Agreement and Modifications issued after execution of this Agreement, all of which form the Contract, and are as fully a part of the Contract as if attached to this Agreement or repeated herein. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations of agreements, either written or oral. An enumeration of the Contract Documents, other than a Modification, appears in Article 9.

ARTICLE 2 THE WORK OF THIS CONTRACT

The Contractor shall fully execute the Work described in the Contract Documents, except as specifically indicated in the Contract Documents to be the responsibility of others. The Contractor will not be compensated for labor or materials outside the scope of work that is not properly authorized.

ARTICLE 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

§ 3.1 The date of commencement of the Work shall be the date of this Agreement unless a different date is stated below or provision is made for the date to be fixed in a Notice to proceed issued by the Owner, which is anticipated to be on or about

If, prior to the commencement of the Work, the Owner requires time to file mortgages and other security interests, the Owner's time requirement shall be as follows: Not applicable.

§ 3.2 The Contract Time shall be measured from the date of commencement.

§ 3.3 The Contractor shall achieve Substantial Completion of the entire Work not later than ( ) days from the date of commencement, or as follows:

*(Insert number of calendar days. Alternatively, a calendar date may be used when coordinated with the date of commencement. If appropriate, insert requirements for earlier Substantial Completion of certain portions of the Work.)*

Portion of Work

Substantial Completion Date

Entire Work

TBD

, subject to adjustments of this Contract Time as provided in the Contract Documents.

(Insert provisions, if any, for liquidated damages relating to failure to achieve Substantial Completion on time or for bonus payments for early completion of the Work.)

(c) Should the Contractor fail to complete fully, and in conformity with all provisions of the Contract within the Contract Time, the Contractor shall, and hereby agrees to pay the Owner One Thousand Dollars (\$1,000.00) per day for as liquidated damages, for each consecutive calendar day beyond the number of days allowed by the Contract, which sum is agreed upon as reasonable and proper measure of damages that the Owner will sustain per diem by failure of Contractor to complete Work within time as stipulated. It is being recognized by Owner and Contractor that the injury to Owner that could result from a failure of the Contractor to complete on schedule is uncertain and cannot be computed exactly. In no way shall costs of Liquidated Damages to be construed as a penalty to the Contractor. (See Bid Documents)

ARTICLE 4 CONTRACT SUM

§ 4.1 The Owner shall pay the Contractor the Contract Sum in current funds for the Contractor's performance of the Contract. The Contract Sum shall be \$ ( \$ ), subject to additions and deductions as provided in the Contract Documents.

§ 4.2 The Contract Sum is based upon the following alternates, if any, which are described in the Contract Documents and are hereby accepted by the Owner:

(State the numbers or other identification of accepted alternates. If the bidding or proposal documents permit the Owner to accept other alternates subsequent to the execution of this Agreement, attach a schedule of such other alternates showing the amount for each and the date when that amount expires.)

§ 4.3 Unit prices, if any:

(Identify and state the unit price; state quantity limitations, if any, to which the unit price will be applicable.)

Item	Units and Limitations	Price Per Unit (\$0.00)

§ 4.4 Allowances included in the Contract Sum, if any:

(Identify allowance and state exclusions, if any, from the allowance price.)

Item	Price

ARTICLE 5 PAYMENTS

§ 5.1 PROGRESS PAYMENTS

§ 5.1.1 Based upon Applications for Payment submitted to the County Engineer or his designee by the Contractor and Certificates for Payment issued by the County Engineer or his designee, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.

§ 5.1.2 The period covered by each Application for Payment shall be one calendar month ending on the last day of the month, or as follows:

§ 5.1.3 The Contractor shall submit a Preliminary Payment Request (Pencil Requisition) to the County Engineer or his designee on the twenty-fifth (25<sup>th</sup>) day of any given calendar month for Work performed during that month,

Upon receipt of the Pencil Requisition from the Contractor, the County Engineer or his designee shall review the Pencil Requisition and approve or disapprove of it in whole or in part as set forth hereafter. Within (4) calendar days of receipt of the Pencil Requisition from the Contractor, the County Engineer or his designee shall return the Pencil Requisition to the Contractor, with those charges that are approved or disapproved, if any, by the County Engineer or his designee, for the Contractor's incorporation into an Application for Payment. Within two (2) calendar days of return of the Pencil Requisition from the County Engineer or his designee, the Contractor shall submit a formal application for Payment to the County Engineer or his designee for review and approval by the County Engineer or his designee incorporating any revisions made by the County Engineer or his designee in the Pencil Requisition submission. Within five (5) calendar days of receipt of Contractor's Application for Payment, the County Engineer or his designee shall take any one of the following actions:

- 1) Certify the entire Application for Payment;
- 2) Certify partial payment and provide the Contractor with reasons for withholding the remaining portion of the payment; or
- 3) Withhold certification of the entire Application for Payment and provide the Contractor with reasons for withholding the entire payment,

Once the Application for Payment is certified either in whole or in part, the County Engineer or his designee shall transmit the Certified Payment Application within three (3) calendar days to the Owner for its review and payment. The Owner shall make payment to the Contractor for the Certified Payment Amount by no later than the time period set forth in the New Jersey Prompt Payment Act following receipt of the Certificate for Payment from the County Engineer or his designee. The Owner shall not be obligated to pay any Application for Payment until the Application for Payment is certified by the County Engineer or his designee. Approval of any Application for Payment may be withheld should the Contractor fail to submit Manning Reports in a timely manner.

Pursuant to N.J.S.A. 2A:30A-1 *et seq.* (the "Prompt Payment Act"), a public or governmental entity that requires the entity's governing body to vote on authorizations for each periodic payment, final payment, or retainage monies, such as the Owner, is exempted from the timing requirements of the Act. Accordingly, the Owner shall not approve the Contractor's Application for Payment until it is certified by the County Engineer or his designee in accordance herewith and shall not approve the Contractor's Certified Payment Application until the next scheduled public meeting of the Owner following the Owner's receipt of the Certified Payment Application from the County Engineer or his designee. The Owner shall not make payment to the Contractor for the Certified Payment Amount until the Owner's subsequent payment cycle following its approval of the Payment Application.

Pursuant to this same Act, if a payment due pursuant to the provisions herein is not made in a timely manner, the Owner shall be liable for the amount of money owed under the contract, plus interest at a rate equal to the prime rate plus one percent (1%), notwithstanding anything to the contrary in the Contract Documents. Interest on amounts due pursuant to the Act shall be paid to the prime contractor for the period beginning on the day after the required payment date and ending on the day on which the check for payment is received by the Contractor.

Pursuant to this same Act, disputes regarding whether a party has failed to make payments required by the Act may be submitted to a process of alternative dispute resolution, notwithstanding anything to the contrary in the contract documents, where the parties agree to same. Alternative dispute resolution permitted by the Act shall not apply to disputes concerning any other matters that may arise under or from this Contract. Any civil action brought to collect payments shall be conducted in Union County, State of New Jersey, and the prevailing party shall be awarded reasonable costs and attorneys' fees.

§5.1.4 The County Engineer or his designee may decide not to certify payment and may withhold a Certificate for Payment, in whole or in part, to the extent reasonably necessary to protect the Owner if, in the County Engineer or his designee's opinion, the representations as described in Section 5.1.5 below cannot be made to the Owner. If the County Engineer or his designee withholds a Certificate for Payment, the County Engineer or his designee will notify the Contractor and Owner as provided in Section 5.1.3 above. If the Contractor and County Engineer or his designee cannot agree on a revised amount, the County Engineer or his designee will issue a Certificate for Payment for the amount for which the County Engineer or his designee is able to make such representations to the Owner as set forth in Section 5.1.3 above. The County Engineer or his designee may also decide to withhold certifying

payment in whole or in part, or, because of subsequently discovered evidence or subsequent observations, to such extent as may be necessary in the County Engineer or his designee's opinion to protect the Owner from loss because of:

- .1 Defective Work not remedied;
- .2 third party claims filed or reasonable evidence indicating probable filing of such claims;
- .3 failure of the Contractor to make payments properly to Subcontractors or for labor, materials, or equipment;
- .4 reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;
- .5 damage to the Owner or another contractor;
- .6 reasonable evidence that the Work will not be completed within the Contract Time, and that the unpaid balance would not be adequate to cover actual or Liquidated Damages for the anticipated delay;
- .7 failure to carry out the Work in accordance with the Contract Documents;
- .8 avoidable delay in the progress of the Work;
- .9 deliberate delay in the submission for approval of names of Subcontractors, materialmen, sources of supply, shop drawings, and samples;
- .10 failure to maintain the Project Site in a safe and satisfactory condition in accordance with good construction practices as determined by the County Engineer or his designee; or
- .11 failure to submit updates as required by the General Conditions.

When the foregoing reasons for withholding certification are resolved, certification will be made for amounts previously withheld in the manner set forth in Section 5.1.3 above.

§5.1.5 The issuance of a separate Certificate for Payment will constitute representations made separately by the County Engineer or his designee to the Owner, based on its individual observations at the site and the data comprising the Application for Payment submitted by the Contractor, that the Work has progressed to the point indicated and that, to the best of the County Engineer or his designee's knowledge, information and belief, quality of the Work is in accordance with the Contract Documents.

The foregoing representations are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to minor deviations from the Contract Documents correctable prior to completion and to specific qualifications expressed by the County Engineer or his designee. The

issuance of a separate Certificate of Payment will further constitute a representation that the Contractor is entitled to payment in the amount certified. However, the issuance of a separate Certificate for Payment will not be a representation that the County Engineer or his designees has (1) made exhaustive or continuous on-site inspections to check the quality or

quantity of the Work; (2) reviewed the Contractor's construction means, methods, techniques, sequences or procedures; (3) reviewed copies of requisitions received from Subcontractor's and materials suppliers and other data requested by the Owner to substantiate the Contractor's right to payment; or (4) made examination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum.

§5.1.6 Each Application for Payment shall be based on the most recent schedule of values submitted by the Contractor in accordance with the Contract Documents. The schedule of values shall allocate the entire Contract Sum among the various portions of the Work. The schedule of values shall be prepared in such form and supported by such data to substantiate its accuracy as the County Engineer or his designee may require. This schedule, unless objected to by the

County Engineer or his designee, shall be used as a basis for reviewing the Contractor's Applications for Payment.

§5.1.7 Applications for Payment shall show the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment.

§ 5.1.8 Subject to other provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

- .1 Take that portion of the Contract Sum properly allocable to completed Work as determined by multiplying the percentage completion of each portion of the Work by the share of the Contract Sum allocated to that portion of the Work in the schedule of values, less retainage of [redacted] percent ( [redacted] %). Pending final determination of cost to the Owner of changes in the Work, amounts not in dispute shall be included as provided in Section 7.3.9 of AIA Document A201™-2007, General Conditions of the Contract for Construction;
- .2 Add that portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction (or, if approved in advance by the Owner, suitably stored off the site at a location agreed upon in writing), less retainage of [redacted] percent ( [redacted] %);
- .3 Subtract the aggregate of previous payments made by the Owner; and
- .4 Subtract amounts, if any, for which the County Engineer or his designee has withheld or nullified a Certificate for Payment as provided in Section 9.5 of AIA Document A201-2007.

§5.1.9 The progress payment amount determined in accordance with Section 5.1.8 shall be further modified under the following circumstances:

- .1 Add, upon Substantial Completion of the Work, a sum sufficient to increase the total payments to the full amount of the Contract Sum, less such amounts as the County Engineer or his designee shall determine for incomplete Work, retainage applicable to such work and unsettled claims; and
- .2 Add, if final completion of the Work is thereafter materially delayed through no fault of the Contractor, any additional amounts payable in accordance with Section 9.10.3 of AIA Document A201-2007.

§5.1.10 Retainage shall be determined as follows: Pursuant to N.J.S.A. 40A:11-6.1, the Owner will withhold two percent (2%) of the amount due on each partial payment when the outstanding balance of the Contract exceeds One Hundred Thousand Dollars (\$100,000.00).

§5.1.11 Except with the Owner's prior approval, the Contractor shall not make advance payments to suppliers for materials or equipment which have not been delivered and stored at the site.

## § 5.2 FINAL PAYMENT

§ 5.2.1 Final payment, constituting the entire unpaid balance of the Contract Sum, shall be made by the Owner to the Contractor when

- .1 the Contractor has fully performed the Contract except for the Contractor's responsibility to correct Work as provided in Section 12.2.2 of AIA Document A201-2007, and to satisfy other requirements, if any, which extend beyond final payment; and
- .2 a final Certificate for Payment has been issued by the County Engineer or his designee.

§ 5.2.2 The Owner's final payment to the Contractor shall be made no later than 30 days after the issuance of the County Engineer or his designee's final Certificate for Payment, or as follows:

## ARTICLE 6 DISPUTE RESOLUTION

### § 6.1 INITIAL DECISION MAKER

The County Engineer or his designee will serve as Initial Decision Maker pursuant to Section 15.2 of AIA Document A201-2007, unless the parties appoint below another individual, not a party to this Agreement, to serve as Initial Decision Maker.

*(If the parties mutually agree, insert the name, address and other contact information of the Initial Decision Maker, if other than the County Engineer or his designee.)*



**§ 6.2 BINDING DISPUTE RESOLUTION**

Except as provided in Section 5.1.3 of the Standard Form of Agreement between the Owner and Contractor, all claims, disputes or other matters in question between the parties to this Contract, arising out of or relating to the Project or to the Contract, or the alleged breach hereof, shall be subject one to mediation, and if not resolved, then same shall be decided in a Court of competent jurisdiction venued in Union County, New Jersey. No party may be compelled to submit any dispute concerning the Project to arbitration. In the event any claim arising from the Project is beyond the jurisdiction of the court, the Contract consents to joinder as a party to such action or alternative dispute proceeding.

**ARTICLE 7 TERMINATION OR SUSPENSION**

§ 7.1 The Contract may be terminated by the Owner or the Contractor as provided in Article 14 of AIA Document A201-2007.

§ 7.2 The Work may be suspended by the Owner as provided in Article 14 of AIA Document A201-2007.

**ARTICLE 8 MISCELLANEOUS PROVISIONS**

§ 8.1 Where reference is made in this Agreement to a provision of AIA Document A201-2007 or another Contract Document, the reference refers to that provision as amended or supplemented by other provisions of the Contract Documents.

§ 8.2 Payments due and unpaid under the Contract shall in no instance bear interest, except as required by law in accordance with Section 5.1.3 hereof.

§ 8.3 The Contractor shall ensure that the Project Site is maintained in a clean and safe condition at all times, based upon Owner's sole discretion. If the Contractor fails to keep the Project Site in a clean and safe condition, said failure shall result in the following:

- .1 all claims resulting from the Contractor's failure shall be the Contractor's responsibility;
- .2 said failure shall constitute an act of default and a substantial breach of the Contract giving the Owner remedies under the contract Documents; and
- .3 the Owner shall have the right to withhold any payments until the Contractor cures its failure.

Failure to do so shall authorize the Owner to withhold any Applications for payment until such time as the Contractor has rectified same. Further, if the Contractor fails to clean up as provided in the Contract Documents, the Owner may do so and the cost thereof shall be charged to the Contractor.

§ 8.4 Indemnification - See Indemnification Requirements in Bid Documents.

§ 8.5 The within contract shall be governed by and interpreted pursuant to the law of the State of New Jersey.

§ 8.6 The Contractor shall comply with the anti-discrimination provisions of N.J.S.A. 10:2-1 et seq., the New Jersey Law Against Discrimination, N.J.S.A. 10:5-1 et seq., N.J.A.C. 17:27-1.1 et seq. and shall guarantee to afford equal opportunity in performance of the Work in accordance with an affirmative action program approved by the State Treasurer. (See Page G-21).

§ 8.7 The Contractor shall submit proof of Business Registration for itself and its subcontractors to the Owner and shall provide written notice to its subcontractors and suppliers of the responsibility to submit proof of business registration to the contractor. The requirement of proof of Business Registration extends down through all levels (tiers) of the Project.

The Contractor agrees to comply with the rules and regulations promulgated pursuant to the Contractor Use Tax Collection Legislation.

For the term of the contract, the Contractor, any subcontractor, and each of their affiliates [N.J.S.A. 52:32-44(g)93], shall collect and remit to the New Jersey Director of the Division of Taxation in the Department of Treasury, the use tax due pursuant to the "Sales and Use Tax Act," P.L. 1966, c. 30 (C.54:32B-1 et seq.) on all of their sales of tangible personal property delivered into the State of New Jersey, regardless of whether the tangible personal property is intended for a contract with a contracting agency. For purposes herein, "affiliate" shall mean any entity that: (a)

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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.

§8.8 This Standard Form of Agreement and the General Conditions set forth in the Bid Documents shall control in the case of conflict between these documents and the Project Specifications, the Project Manual, and any other exhibits incorporated by reference in this Contract.

#### ARTICLE 9 ENUMERATION OF CONTRACT DOCUMENTS

§ 9.1 The Contract Documents, except for Modifications issued after execution of this Agreement, are enumerated in the sections below, and incorporated herein as if set forth in their entirety.

§ 9.1.1 The Agreement is this executed AIA Document A101-2007, Standard Form of Agreement Between Owner and Contractor.

§ 9.1.2 The General Conditions are AIA Document A201-2007, General Conditions of the Contract for Construction.

§ 9.1.3 The Supplementary and other Conditions of the Contract:

Document	Title	Date	Pages

§ 9.1.4 The Specifications:

*(Either list the Specifications here or refer to an exhibit attached to this Agreement.)*

*(See Specifications as referenced by Exhibit B.)*

Section	Title	Date	Pages

§ 9.1.5 The Drawings:

*(Either list the Drawings here or refer to an exhibit attached to this Agreement.)*

*(See List of Drawings annexed hereto as Exhibit C.)*

Number	Title	Date

§ 9.1.6 The Addenda, if any:

Number	Date	Pages

Portions of Addenda relating to bidding requirements are not part of the Contract Documents unless the bidding requirements are also enumerated in this Article 9.

§ 9.1.7 Additional documents, if any, forming part of the Contract Documents:

- 1 AIA Document E201™-2007, Digital Data Protocol Exhibit, if completed by the parties, or the following:

- 2 Other documents, if any, listed below:

**ARTICLE 10 INSURANCE AND BONDS**

The Contractor shall purchase and maintain insurance and provide bonds as set forth in Article 11 of AIA Document A201-2007.

(State bonding requirements, if any, and limits of liability for insurance required in Article 11 of AIA Document A201-2007.)

Type of insurance or bond

Limit of liability or bond amount (\$0.00)

This Agreement entered into as of the day and year first written above.

OWNER (Signature)

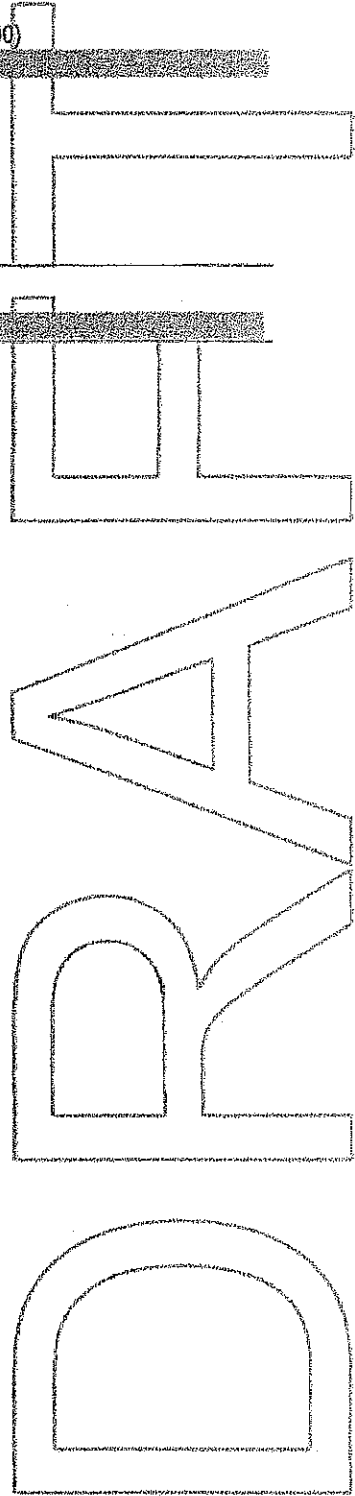
[Redacted Signature]

(Printed name and title)

CONTRACTOR (Signature)

[Redacted Signature]

(Printed name and title)



# DRAFT AIA Document A201™ - 2007

## General Conditions of the Contract for Construction

for the following PROJECT:

(Name and location or address)

(County of Union)

THE OWNER:

(Name, legal status and address)

THE ENGINEER, OR HIS DESIGNEE :

(Name, legal status and address)

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- 14 TERMINATION OR SUSPENSION OF THE CONTRACT
- 15 CLAIMS AND DISPUTES

#### ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An Additions and Deletions Report that notes added information as well as revisions to the standard form text is available from the author and should be reviewed.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

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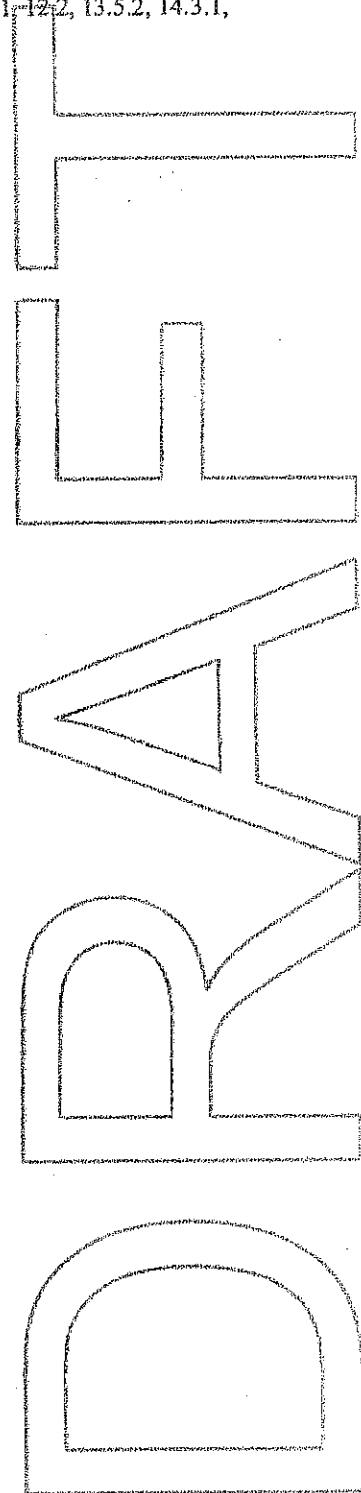
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## ARTICLE 1 GENERAL PROVISIONS

### § 1.1 BASIC DEFINITIONS

#### § 1.1.1 THE CONTRACT DOCUMENTS

The Contract Documents are enumerated in the Agreement between the Owner and Contractor (hereinafter the Agreement) and consist of the Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to execution of the Contract, other documents listed in the Agreement and Modifications issued after execution of the Contract. A Modification is (1) a written amendment to the Contract signed by both parties, (2) a Change Order, (3) a Construction Change Directive or (4) a written order for a minor change in the Work issued by the Architect or Engineer. Unless specifically enumerated in the Agreement, the Contract Documents do not include the advertisement or invitation to bid, Instructions to Bidders, sample forms, other information furnished by the Owner in anticipation of receiving bids or proposals, the Contractor's bid or proposal, or portions of Addenda relating to bidding requirements.

#### § 1.1.2 THE CONTRACT

The Contract Documents form the Contract for Construction. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations or agreements, either written or oral. The Contract may be amended or modified only by a Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind (1) between the Contractor and the Engineer, or his designee or the Engineer, or his designee's consultants, (2) between the Owner and a Subcontractor or a Sub-subcontractor, (3) between the Owner and the Engineer, or his designee or the Engineer, or his designee's consultants or (4) between any persons or entities other than the Owner and the Contractor. The Engineer, or his designee shall, however, be entitled to performance and enforcement of obligations under the Contract intended to facilitate performance of the Engineer, or his designee's duties.

#### § 1.1.3 THE WORK

The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The Work may constitute the whole or a part of the Project.

#### § 1.1.4 THE PROJECT

The Project is the total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by the Owner and by separate contractors.

#### § 1.1.5 THE DRAWINGS

The Drawings are the graphic and pictorial portions of the Contract Documents showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules and diagrams.

#### § 1.1.6 THE SPECIFICATIONS

The Specifications are that portion of the Contract Documents consisting of the written requirements for materials, equipment, systems, standards and workmanship for the Work, and performance of related services.

#### § 1.1.7 INSTRUMENTS OF SERVICE

Instruments of Service are representations, in any medium of expression now known or later developed, of the tangible and intangible creative work performed by the Engineer, or his designee and the Engineer, or his designee's consultants under their respective professional services agreements. Instruments of Service may include, without limitation, studies, surveys, models, sketches, drawings, specifications, and other similar materials.

#### § 1.1.8 INITIAL DECISION MAKER

The Initial Decision Maker is the person identified in the Agreement to render initial decisions on Claims in accordance with Section 15.2 and certify termination of the Agreement under Section 14.2.2.

### § 1.2 CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS

§ 1.2.1 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required only to the extent

consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.

§ 1.2.2 Organization of the Specifications into divisions, sections and articles, and arrangement of Drawings shall not control the Contractor in dividing the Work among Subcontractors or in establishing the extent of Work to be performed by any trade.

§ 1.2.3 Unless otherwise stated in the Contract Documents, words that have well-known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings.

### § 1.3 CAPITALIZATION

Terms capitalized in these General Conditions include those that are (1) specifically defined, (2) the titles of numbered articles or (3) the titles of other documents published by the American Institute of Engineer, or his designee s.

### § 1.4 INTERPRETATION

In the interest of brevity the Contract Documents frequently omit modifying words such as "all" and "any" and articles such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement.

### § 1.5 OWNERSHIP AND USE OF DRAWINGS, SPECIFICATIONS AND OTHER INSTRUMENTS OF SERVICE

§ 1.5.1 The Engineer, or his designee and the Engineer, or his designee 's consultants shall be deemed the authors and Owners of their respective Instruments of Service, including the Drawings and Specifications. The Contractor, Subcontractors, Sub-subcontractors, and material or equipment suppliers shall not own or claim a copyright in the Instruments of Service. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with this Project is not to be construed as publication in derogation of the Engineer, or his designee or Engineer, or his designee 's consultants' reserved rights.

§ 1.5.2 The Contractor, Subcontractors, Sub-subcontractors and material or equipment suppliers are authorized to use and reproduce the Instruments of Service provided to them solely and exclusively for execution of the Work. All copies made under this authorization shall bear the copyright notice, if any, shown on the Instruments of Service. The Contractor, Subcontractors, Sub-subcontractors, and material or equipment suppliers may not use the instruments of Service on other projects or for additions to this Project outside the scope of the Work without the specific written consent of the Owner, Engineer, or his designee and the Engineer, or his designee 's consultants.

### § 1.6 TRANSMISSION OF DATA IN DIGITAL FORM

If the parties intend to transmit Instruments of Service or any other information or documentation in digital form, they shall endeavor to establish necessary protocols governing such transmissions, unless otherwise already provided in the Agreement or the Contract Documents.

## ARTICLE 2 OWNER

### § 2.1 GENERAL

§ 2.1.1 The Owner is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Owner shall designate in writing a representative who shall have express authority to bind the Owner with respect to all matters requiring the Owner's approval or authorization. Except as otherwise provided elsewhere in the Contract Documents, the Engineer, or his designee does not have such authority. The term "Owner" means the Owner or the Owner's authorized representative.

### § 2.2 INFORMATION AND SERVICES REQUIRED OF THE OWNER

§ 2.2.1 The Contractor may request in writing that the Owner provide reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract only in the event that: (1) the Owner fails to make payments to the Contractor as the Contract Documents require; (2) a change in the Work materially changes the Contract Sum. The Owner shall furnish such evidence as a condition precedent to commencement or continuation of the Work or the portion of the Work affected by a material change. After the Owner furnishes the evidence, the Owner shall not materially vary such financial arrangements without prior notice to the Contractor.

§ 2.2.2 Except for permits and fees that are the responsibility of the Contractor under the Contract Documents, including those required under Section 3.7.1, the Owner shall secure and pay for necessary approvals, easements, assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities.

§ 2.2.3 If readily available, the Owner shall furnish surveys describing physical characteristics and legal limitations for the site of the Project, and a legal description of the site. The Contractor shall be entitled to rely on the accuracy of information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work. The Contractor shall be responsible for requesting and obtaining a utility mark-out.

§ 2.2.4 The Owner shall furnish information or services required of the Owner by the Contract Documents with reasonable promptness. The Owner shall also furnish any other information or services under the Owner's control and relevant to the Contractor's performance of the Work with reasonable promptness after receiving the Contractor's written request for such information or services.

§ 2.2.5 Unless otherwise provided in the Contract Documents, the Owner shall furnish to the Contractor one copy of the Contract Documents for purposes of making reproductions pursuant to Section 1.5.2.

### § 2.3 OWNER'S RIGHT TO STOP THE WORK

If the Contractor fails to correct Work that is not in accordance with the requirements of the Contract Documents as required by Article 12 or fails to carry out Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, except to the extent required by Section 6. Owner shall in no way be responsible for any delays or claims arising from delays for enforcement of this Section.

### § 2.4 OWNER'S RIGHT TO CARRY OUT THE WORK

If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a seven-day period after receipt of written notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, the Owner may, without prejudice to other remedies the Owner may have, correct such deficiencies. In such case an appropriate Change Order shall be issued deducting from payments then or thereafter due the Contractor the reasonable cost of correcting such deficiencies, including Owner's expenses and compensation for the Engineer, or his designee's additional services made necessary by such default, neglect or failure. If payments then or thereafter due the Contractor are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner.

## ARTICLE 3 CONTRACTOR

### § 3.1 GENERAL

§ 3.1.1 The Contractor is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Contractor shall be lawfully licensed, if required in the jurisdiction where the Project is located and shall maintain as current any approvals or certifications that may be required to perform the Work. The term "Contractor" means the Contractor or the Contractor's authorized representative.

§ 3.1.2 The Contractor shall perform the Work in accordance with the Contract Documents.

§ 3.1.3 The Contractor shall not be relieved of obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Engineer, or his designee in the Engineer, or his designee's administration of the Contract, or by tests, inspections or approvals required or performed by persons or entities other than the Contractor.

### § 3.2 REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONTRACTOR

§ 3.2.1 Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become generally familiar with local conditions under which the Work is to be performed and correlated personal observations with requirements of the Contract Documents.

§ 3.2.2 Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner pursuant to Section 2.2.3, shall take field measurements of any existing conditions related to that portion of the Work, and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor shall promptly report to the Engineer, or his designee any errors, inconsistencies or omissions discovered by or made known to the Contractor as a request for information in such form as the Engineer, or his designee may require. It is recognized that the Contractor's review is made in the Contractor's capacity as a Contractor and not as a licensed design professional, unless otherwise specifically provided in the Contract Documents.

§ 3.2.3 The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, but the Contractor shall promptly report to the Engineer, or his designee any nonconformity discovered by or made known to the Contractor as a request for information in such form as the Engineer, or his designee may require.

§ 3.2.4 If the Contractor believes that additional cost or time is involved because of clarifications or instructions the Engineer, or his designee issues in response to the Contractor's notices or requests for information pursuant to Sections 3.2.2 or 3.2.3, the Contractor shall make Claims as provided in Article 1.5. If the Contractor fails to perform the obligations of Sections 3.2.2 or 3.2.3, the Contractor shall pay such costs and damages to the Owner as would have been avoided if the Contractor had performed such obligations. If the Contractor performs those obligations, the Contractor shall not be liable to the Owner or Engineer, or his designee for damages resulting from errors, inconsistencies or omissions in the Contract Documents, for differences between field measurements or conditions and the Contract Documents, or for nonconformities of the Contract Documents to applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities.

### § 3.3 SUPERVISION AND CONSTRUCTION PROCEDURES

§ 3.3.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for, and have control over, construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract, unless the Contract Documents give other specific instructions concerning these matters. If the Contract Documents give specific instructions concerning construction means, methods, techniques, sequences or procedures, the Contractor shall evaluate the jobsite safety thereof and, except as stated below, shall be fully and solely responsible for the jobsite safety of such means, methods, techniques, sequences or procedures. If the Contractor determines that such means, methods, techniques, sequences or procedures may not be safe, the Contractor shall give timely written notice to the Owner and Engineer, or his designee and shall not proceed with that portion of the Work without further written instructions from the Engineer, or his designee. If the Contractor is then instructed to proceed with the required means, methods, techniques, sequences or procedures without acceptance of changes proposed by the Contractor, the Owner shall be solely responsible for any loss or damage arising solely from those Owner-required means, methods, techniques, sequences or procedures.

§ 3.3.2 The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other persons or entities performing portions of the Work for, or on behalf of, the Contractor or any of its Subcontractors.

§ 3.3.3 The Contractor shall be responsible for inspection of portions of Work already performed to determine that such portions are in proper condition to receive subsequent Work.

### § 3.4 LABOR AND MATERIALS

§ 3.4.1 Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

§ 3.4.2 Except in the case of minor changes in the Work authorized by the Engineer, or his designee in accordance with Sections 3.12.8 or 7.4, the Contractor may make substitutions only with the consent of the Owner, after

evaluation by the Engineer, or his designee and in accordance with a Change Order or Construction Change Directive.

§ 3.4.3 The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of unfit persons or persons not properly skilled in tasks assigned to them.

### § 3.5 WARRANTY

The Contractor warrants to the Owner and Engineer, or his designee that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the Work will conform to the requirements of the Contract Documents and will be free from defects, except for those inherent in the quality of the Work the Contract Documents require or permit. Work, materials, or equipment not conforming to these requirements may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear and normal usage. If required by the Engineer, or his designee, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment. Such warranty shall continue for a period of one (1) year from the date of Substantial Completion of the Work. Under this warranty, the Contractor shall remedy at his expense any such failure for the Work to be conforming to the requirement of the Contract, or any other defect appearing in the Work. In addition, the Contractor shall remedy at his own expense, any damage to Owner's owned, controlled, real or personal property, when that damage is the result of the Contractor's failure to provide conforming Work as it relates to the Contract Documents or any other defect of equipment, material, workmanship or design. The Contractor shall also restore any Work damaged in fulfilling its obligations under the terms of this provision. The Contractor's warranty with respect to the Work repaired or replaced hereunder will run for a period of one (1) year from the date of repair or replacement.

### § 3.6 TAXES

The Contractor shall pay use and similar taxes for the Work provided by the Contractor that are legally enacted when bids are received or negotiations concluded, whether or not yet effective or merely scheduled to go into effect.

### § 3.7 PERMITS, FEES, NOTICES AND COMPLIANCE WITH LAWS

§ 3.7.1 Unless otherwise provided in the Contract Documents, the Contractor shall secure and pay for the building permit as well as for other permits, fees, licenses, and inspections by government agencies necessary for proper execution and completion of the Work that are customarily secured after execution of the Contract and legally required at the time bids are received or negotiations concluded.

§ 3.7.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to performance of the Work.

§ 3.7.3 If the Contractor performs Work knowing it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

§ 3.7.4 **Concealed or Unknown Conditions.** If the Contractor encounters conditions at the site that are (1) subsurface or otherwise concealed physical conditions that differ materially from those indicated in the Contract Documents or (2) unknown physical conditions of an unusual nature, that differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, the Contractor shall promptly provide notice to the Owner and the Engineer, or his designee before conditions are disturbed and in no event later than 21 days after first observance of the conditions. The Engineer, or his designee will promptly investigate such conditions and, if the Engineer, or his designee determines that they differ materially and cause an increase or decrease in the Contractor's cost of, or time required for, performance of any part of the Work, will recommend an equitable adjustment in the Contract Sum or Contract Time, or both. If the Engineer, or his designee determines that the conditions at the site are not materially different from those indicated in the Contract Documents and that no change in the terms of the Contract is justified, the Engineer, or his designee shall promptly notify the Owner and Contractor in writing, stating the reasons. If either party disputes the Engineer, or his designee's determination or recommendation, that party may proceed as provided in Article 15.



§ 3.7.5 If, in the course of the Work, the Contractor encounters human remains or recognizes the existence of burial markers, archaeological sites or wetlands not indicated in the Contract Documents, the Contractor shall immediately suspend any operations that would affect them and shall notify the Owner and Engineer, or his designee. Upon receipt of such notice, the Owner shall promptly take any action necessary to obtain governmental authorization required to resume the operations. The Contractor shall continue to suspend such operations until otherwise instructed by the Owner but shall continue with all other operations that do not affect those remains or features. Requests for adjustments in the Contract Sum and Contract Time arising from the existence of such remains or features may be made as provided in Article 15.

### § 3.8 ALLOWANCES

§ 3.8.1 The Contractor shall include in the Contract Sum all allowances stated in the Contract Documents. Items covered by allowances shall be supplied for such amounts and by such persons or entities as the Owner may direct.

§ 3.8.2 Unless otherwise provided in the Contract Documents,

1. Allowances shall cover the cost to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts;
2. Contractor's costs for unloading and handling at the site, labor, installation costs, overhead, profit and other expenses contemplated for stated allowance amounts shall be included in the Contract Sum but not in the allowances; and
3. Whenever costs are more than or less than allowances, the Contract Sum shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect (1) the difference between actual costs and the allowances under Section 3.8.2.1 and (2) changes in Contractor's costs under Section 3.8.2.2. The unused balance of any allowance shall be deducted from the Contract Sum upon completion and acceptance of the Work by Change Order.

§ 3.8.3 Materials and equipment under an allowance shall be selected by the Owner with reasonable promptness.

### § 3.9 SUPERINTENDENT

§ 3.9.1 The Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the Project site during performance of the Work. The superintendent shall represent the Contractor, and communications given to the superintendent shall be as binding as if given to the Contractor.

§ 3.9.2 The Contractor, as soon as practicable after award of the Contract, shall furnish in writing to the Owner through the Engineer, or his designee the name and qualifications of a proposed superintendent. The Engineer, or his designee may reply within 14 days to the Contractor in writing stating (1) whether the Owner or the Engineer, or his designee has reasonable objection to the proposed superintendent or (2) that the Engineer, or his designee requires additional time to review. Failure of the Engineer, or his designee to reply within the 14 day period shall constitute notice of no reasonable objection.

§ 3.9.3 The Contractor shall not employ a proposed superintendent to whom the Owner or Engineer, or his designee has made reasonable and timely objection. The Contractor shall not change the superintendent without the Owner's consent, which shall not unreasonably be withheld or delayed.

### § 3.10 CONTRACTOR'S CONSTRUCTION SCHEDULES

§ 3.10.1 The Contractor, promptly after being awarded the Contract, shall prepare and submit for the Owner's and Engineer, or his designee's information a Contractor's construction schedule for the Work. The schedule shall not exceed time limits current under the Contract Documents, shall be revised at appropriate intervals as required by the conditions of the Work and Project, shall be related to the entire Project to the extent required by the Contract Documents, and shall provide for expeditious and practicable execution of the Work.

§ 3.10.2 The Contractor shall prepare a submittal schedule, promptly after being awarded the Contract and thereafter as necessary to maintain a current submittal schedule, and shall submit the schedule(s) for the Engineer, or his designee's approval. The Engineer, or his designee's approval shall not unreasonably be delayed or withheld. The submittal schedule shall (1) be coordinated with the Contractor's construction schedule, and (2) allow the Engineer, or his designee reasonable time to review submittals. If the Contractor fails to submit a submittal

schedule, the Contractor shall not be entitled to any increase in Contract Sum or extension of Contract Time based on the time required for review of submittals.

§ 3.10.3 The Contractor shall perform the Work in general accordance with the most recent schedules submitted to the Owner and Engineer, or his designee .

§3.10.4 Should the Contractor responsible for the scheduling requirements of Article 3 herein fail to comply with said scheduling requirements, said failure shall result in the following:

- 1 all claims resulting from the Contractor's failure to prepare or submit a schedule shall be the Contractor's responsibility;
- 2 shall constitute an act of default and a substantial breach of the Contract giving the Owner remedies under the Contract Documents; and
- 3 the Owner shall have the right to withhold any payments until the Contractor complies with the scheduling requirements of Article 3 herein.

§3.10.5 In the event of a Five Prime Contract, the General Contractor shall be responsible for the preparation and submittal of the schedule.

### § 3.11 DOCUMENTS AND SAMPLES AT THE SITE

The Contractor shall maintain at the site for the Owner one copy of the Drawings, Specifications, Addenda, Change Orders and other Modifications, in good order and marked currently to indicate field changes and selections made during construction, and one copy of approved Shop Drawings, Product Data, Samples and similar required submittals. These shall be available to the Engineer, or his designee and shall be delivered to the Engineer, or his designee for submittal to the Owner upon completion of the Work as a record of the Work as constructed.

### § 3.12 SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

§ 3.12.1 Shop Drawings are drawings, diagrams, schedules and other data specially prepared for the Work by the Contractor or a Subcontractor, Sub-subcontractor, manufacturer, supplier or distributor to illustrate some portion of the Work.

§ 3.12.2 Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work.

§ 3.12.3 Samples are physical examples that illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.

§ 3.12.4 Shop Drawings, Product Data, Samples and similar submittals are not Contract Documents. Their purpose is to demonstrate the way by which the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents for those portions of the Work for which the Contract Documents require submittals. Review by the Engineer, or his designee is subject to the limitations of Section 4.2.7. Informational submittals upon which the Engineer, or his designee is not expected to take responsive action may be so identified in the Contract Documents. Submittals that are not required by the Contract Documents may be returned by the Engineer, or his designee without action.

§ 3.12.5 The Contractor shall review for compliance with the Contract Documents, approve and submit to the Engineer, or his designee Shop Drawings, Product Data, Samples and similar submittals required by the Contract Documents in accordance with the submittal schedule approved by the Engineer, or his designee or, in the absence of an approved submittal schedule, with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the Owner or of separate contractors.

§ 3.12.6 By submitting Shop Drawings, Product Data, Samples and similar submittals, the Contractor represents to the Owner and Engineer, or his designee that the Contractor has (1) reviewed and approved them, (2) determined and verified materials, field measurements and field construction criteria related thereto, or will do so and (3) checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

§ 3.12.7 The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples or similar submittals until the respective submittal has been approved by the Engineer, or his designee .

§ 3.12.8 The Work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from requirements of the Contract Documents by the Engineer or his designee 's approval of Shop Drawings, Product Data, Samples or similar submittals unless the Contractor has specifically informed the Engineer, or his designee in writing of such deviation at the time of submittal and (1) the Engineer, or his designee has given written approval to the specific deviation as a minor change in the Work, or (2) a Change Order or Construction Change Directive has been issued authorizing the deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples or similar submittals by the Engineer, or his designee 's approval thereof.

§ 3.12.9 The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples or similar submittals, to revisions other than those requested by the Engineer, or his designee on previous submittals. In the absence of such written notice, the Engineer, or his designee 's approval of a resubmission shall not apply to such revisions.

§ 3.12.10 The Contractor shall not be required to provide professional services that constitute the practice of Engineer, or his designee ure or engineering unless such services are specifically required by the Contract Documents for a portion of the Work or unless the Contractor needs to provide such services in order to carry out the Contractor's responsibilities for construction means, methods, techniques, sequences and procedures. The Contractor shall not be required to provide professional services in violation of applicable law. If professional design services or certifications by a design professional related to systems, materials or equipment are specifically required of the Contractor by the Contract Documents, the Owner and the Engineer, or his designee will specify all performance and design criteria that such services must satisfy. The Contractor shall cause such services or certifications to be provided by a properly licensed design professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, Shop Drawings and other submittals prepared by such professional. Shop Drawings and other submittals related to the Work designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to the Engineer, or his designee . The Owner and the Engineer, or his designee shall be entitled to rely upon the adequacy, accuracy and completeness of the services, certifications and approvals performed or provided by such design professionals, provided the Owner and Engineer, or his designee have specified to the Contractor all performance and design criteria that such services must satisfy. Pursuant to this Section 3.12.10, the Engineer, or his designee will review, approve or take other appropriate action on submittals only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Contractor shall not be responsible for the adequacy of the performance and design criteria specified in the Contract Documents.

### § 3.13 USE OF SITE

§ 3.13.1 The Contractor shall confine operations at the site to areas permitted by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities and the Contract Documents and shall not unreasonably encumber the site with materials or equipment.

§ 3.13.2 The Contractor shall coordinate the Contractor's operations with, and secure the approval of, the Owner before using any portion of the Site.

§ 3.13.3 The Contractor shall store its apparatuses, materials, supplies, and equipment in such orderly fashion at the Site of the Work, if permitted, as will not unduly interfere with the progress of the Work or ongoing operations. The Contractor shall provide protective fencing around the designated storage areas.

§ 3.13.4 The Contractor shall see that stockpiles of materials and storage of equipment are kept to a minimum and neatly stored where directed by the Owner and the Engineer, or his designee.

§ 3.13.5 If the Work is to be executed in areas occupied by the Owner, the Contractor shall inform the Owner in advance of the areas scheduled to be worked on, so that the Owner's personnel may make proper preparations to protect equipment and records.

§3.13.6 The Contractor understands that some or all the Work of the Contract may be performed while the facilities are occupied by personnel, and accordingly shall make all reasonable and necessary provisions to ensure that the contract Work will be of minimal disruption to the environment.

§3.13.7 Materials and equipment that are to be used only directly in the Work, shall be brought to and stored on the Project site by the Contractor. After equipment is no longer required for the Work, it shall be promptly removed from the Project Site. Protection of construction materials and equipment stored at the Project Site from weather, theft, damage and all other adversity is solely the Contractor's responsibility. The Contractor shall bear the responsibility to replace all such materials that may be lost, damaged, or stolen at its expense, whether such materials or equipment have been entirely or partially paid for by the Owner.

§3.13.8 The Contractor and any entity for whom the Contractor is responsibility, shall not erect any sign on the Project Site without the prior written consent of the Owner, which may be withheld in the sole discretion of the Owner.

§3.13.9 Contractor shall ensure that the Work is performed at all times in a manner that affords reasonable access, both vehicular and pedestrian, to the Site of the Work and all adjacent areas. The Work shall be performed, to the fullest extent reasonably possible, in such a manner that public areas adjacent to the Site of the Work shall be free from all debris, building materials, and equipment likely to cause hazardous conditions.

§3.13.10 Without prior approval of the Owner, the Contractor shall not permit any workers to use any existing facilities at the Project Site, including, without limitation, the lavatories, toilets, entrances, and parking areas, other than those designated by the Owner. Without limitation of any other provision of the Contract Documents, the Contractor shall use its best efforts to comply with all rules and regulations promulgated by the Owner in connection with the use and occupancy of the Project Site and the Building, as amended from time to time. The Contractor shall immediately notify the Owner in writing, if during the performance of the Work, the Contractor finds compliance with any portion of such rules and regulations to be impracticable. This notification shall set forth the problems of such compliance and shall suggest alternatives through which the same results intended by such portions of the rules and regulations can be achieved. The Owner may, in the Owner's sole discretion, adopt such suggestions, develop new alternatives or require compliance with the existing requirements of the rules and regulations. The Contractor shall also comply with all insurance requirements and collective bargaining agreements applicable to use and occupancy of the Project Site and the Building.

#### § 3.14 CUTTING AND PATCHING

§ 3.14.1 The Contractor shall be responsible for cutting, fitting or patching required to complete the Work or to make its parts fit together properly. All areas requiring cutting, fitting and patching shall be restored to the condition existing prior to the cutting, fitting and patching, unless otherwise required by the Contract Documents. Any costs incurred by the Owner for defective cutting or patching shall be borne by the Contractor responsible therefore.

§ 3.14.2 The Contractor shall not damage or endanger a portion of the Work or fully or partially completed construction of the Owner or separate contractors by cutting, patching or otherwise altering such construction, or by excavation. The Contractor shall not cut or otherwise alter such construction by the Owner or a separate Contractor except with written consent of the Owner and of such separate Contractor; such consent shall not be unreasonably withheld. The Contractor shall not unreasonably withhold from the Owner or a separate Contractor the Contractor's consent to cutting or otherwise altering the Work.

#### § 3.15 CLEANING UP

§ 3.15.1 The Contractor shall keep the premises and surrounding area free from accumulation of waste materials or rubbish caused by operations under the Contract. At completion of the Work, the Contractor shall remove waste materials, rubbish, the Contractor's tools, construction equipment, machinery and surplus materials from and about the Project.

§ 3.15.2 If the Contractor fails to clean up as provided in the Contract Documents, the Owner may do so and Owner shall be entitled to reimbursement from the Contractor, or shall be entitled to reduce the Contract Amount in an amount equal to the Owner's cost to clean up.

§3.15.3 The Contractor shall, on a daily basis, clean debris resulting from its Work, and protect construction in progress and maintain adjoining materials in place during handling and installation, and provide protective covering where required to assure protection from damage or deterioration until Substantial Completion.

§3.15.4 The Contractor shall clean and provide maintenance on completed construction, after installation, as frequently as necessary through the remainder of the construction period.

§3.15.5 The Contractor shall supervise its construction operations to assure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period. The term "clean" shall include the removal of debris from the work area to dumpsters furnished by the Prime General Work Contractor or the Contractor for Single Overall Contract Work, whichever contracting method shall apply.

### § 3.16 ACCESS TO WORK

The Contractor shall provide the Owner and Engineer, or his designee access to the Work in preparation and progress wherever located.

### § 3.17 ROYALTIES, PATENTS AND COPYRIGHTS

The Contractor shall pay all royalties and license fees. The Contractor shall defend suits or claims for infringement of copyrights and patent rights and shall hold the Owner and Engineer, or his designee harmless from loss or account thereof, but shall not be responsible for such defense or loss when a particular design, process or product of a particular manufacturer or manufacturers is required by the Contract Documents, or where the copyright violations are contained in Drawings, Specifications or other documents prepared by the Owner or Engineer, or his designee. However, if the Contractor has reason to believe that the required design, process or product is an infringement of a copyright or a patent, the Contractor shall be responsible for such loss unless such information is promptly furnished to the Engineer, or his designee.

### § 3.18 INDEMNIFICATION

§ 3.18.1 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 Owner's consultants, agents, representatives, and employees from and against any and all claims, damages, losses, costs, and expenses, including, but not limited to attorney's 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 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 Owner and the Owner'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 claims, damage, loss, cost, or expense is attributable to bodily injury, sickness, disease or death, or to injury to destruction of tangible property (other than work itself) caused or alleged to be caused by the negligent acts, negligent omissions, and/or fault of the Owner or the Owner'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."

§ 3.18.2 In claims against any person or entity indemnified under this Section 3.18 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under Section 3.18.1 shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefit acts or other employee benefit acts.

ARTICLE 4 ENGINEER, OR HIS DESIGNEE OR ENGINEER

§ 4.1 GENERAL

§ 4.1.1 The Owner shall retain an Engineer, or his designee lawfully licensed to practice Engineer, or his designee are or an entity lawfully practicing Engineer, or his designee are in the jurisdiction where the Project is located. That person or entity is identified as the Engineer, or his designee in the Agreement and is referred to throughout the Contract Documents as if singular in number.

§ 4.1.2 Duties, responsibilities and limitations of authority of the Engineer, or his designee as set forth in the Contract Documents shall not be restricted, modified or extended without written consent of the Owner, Contractor and Engineer, or his designee. Consent shall not be unreasonably withheld.

§ 4.2 ADMINISTRATION OF THE CONTRACT

§ 4.2.1 The Engineer, or his designee will provide administration of the Contract as set forth in its respective Agreements with the Owner and as described in the Contract Documents.

§ 4.2.2 The Engineer, or his designee will visit the site at intervals appropriate to the stage of construction, or as otherwise agreed with the Owner, to become generally familiar with the progress and quality of the portion of the Work completed, and to determine in general if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents.

§ 4.2.3 On the basis of the site visits, the Engineer, or his designee will keep the Owner reasonably informed about the progress and quality of the portion of the Work completed, and report to the Owner (1) known deviations from the Contract Documents and from the most recent construction schedule submitted by the Contractor, and (2) defects and deficiencies observed in the Work.

§ 4.2.4 COMMUNICATIONS FACILITATING CONTRACT ADMINISTRATION

Except as otherwise provided in the Contract Documents or when direct communications have been specially authorized, the Owner and Contractor shall endeavor to communicate with each other through the Engineer, or his designee about matters arising out of or relating to the Contract. Communications by and with the Engineer, or his designee's consultants shall be through the Engineer, or his designee. Communications by and with Subcontractors and material suppliers shall be through the Contractor. Communications by and with separate contractors shall be through the Owner.

§ 4.2.5 Based on the Engineer, or his designee's evaluations of the Contractor's Applications for Payment, the Engineer, or his designee will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.

§ 4.2.6 The Engineer, or his designee has authority to reject Work that does not conform to the Contract Documents. Whenever the Engineer, or his designee considers it necessary or advisable, the Engineer, or his designee will have authority to require inspection or testing of the Work in accordance with Sections 13.5.2 and 13.5.3, whether or not such Work is fabricated, installed or completed. However, neither this authority of the Engineer, or his designee nor a decision made in good faith either to exercise or not to exercise such authority shall give rise to a duty of responsibility of the Engineer, or his designee to the Contractor, Subcontractors, material and equipment suppliers, their agents or employees, or other persons or entities performing portions of the Work.

§ 4.2.7 The Engineer, or his designee will review and approve, or take other appropriate action upon, the Contractor's submittals such as Shop Drawings, Product Data and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Engineer, or his designee's action will be taken in accordance with the submittal schedule approved by the Engineer, or his designee or, in the absence of an approved submittal schedule, with reasonable promptness while allowing sufficient time in the Engineer, or his designee's professional judgment to permit adequate review. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Engineer, or his designee's review of the Contractor's submittals shall not relieve the Contractor of the obligations under Sections 3.3, 3.5 and 3.12. The Engineer, or his designee's review shall not constitute

approval of safety precautions or, unless otherwise specifically stated by the Engineer, or his designee, of any construction means, methods, techniques, sequences or procedures. The Engineer, or his designee's approval of a specific item shall not indicate approval of an assembly of which the item is a component.

§ 4.2.8 The Engineer, or his designee will prepare Change Orders and Construction Change Directives, and may authorize minor changes in the Work as provided in Section 7. The Engineer, or his designee will investigate and make determinations and recommendations regarding concealed and unknown conditions as provided in Section 3.7.4.

§ 4.2.9 The Engineer, or his designee will conduct inspections to determine the date or dates of Substantial Completion and the date of final completion; issue Certificates of Substantial Completion pursuant to Section 9.8; receive and forward to the Owner, for the Owner's review and records, written warranties and related documents required by the Contract and assembled by the Contractor pursuant to Section 9.10; and issue a final Certificate for Payment pursuant to Section 9.10.

§ 4.2.10 If the Owner and Engineer, or his designee agree, the Engineer, or his designee will provide one or more project representatives to assist in carrying out the Engineer, or his designee's responsibilities at the site. The duties, responsibilities and limitations of authority of such project representatives shall be as set forth in the Owner's Agreement with the Engineer, or his designee

§ 4.2.11 The Engineer, or his designee will interpret and decide matters concerning performance under, and requirements of, the Contract Documents on written request of either the Owner or Contractor. The Engineer, or his designee's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness.

§ 4.2.12 Interpretations and decisions of the Engineer, or his designee will be consistent with the intent of, and reasonably inferable from, the Contract Documents and will be in writing or in the form of drawings. When making such interpretations and decisions, the Engineer, or his designee will endeavor to secure faithful performance by both Owner and Contractor and will not show partiality.

§ 4.2.13 The Engineer, or his designee will review and respond to requests for information about the Contract Documents. The Engineer, or his designee's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness. If appropriate, the Engineer, or his designee will prepare and issue supplemental Drawings and Specifications in response to the requests for information.

## ARTICLE 5 SUBCONTRACTORS

### § 5.1 DEFINITIONS

§ 5.1.1 A Subcontractor is a person or entity who has a direct contract with the Contractor to perform a portion of the Work at the site. The term "Subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Subcontractor or an authorized representative of the Subcontractor. The term "Subcontractor" does not include a separate Contractor or subcontractors of a separate Contractor.

§ 5.1.2 A Sub-subcontractor is a person or entity who has a direct or indirect contract with a Subcontractor to perform a portion of the Work at the site. The term "Sub-subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Sub-subcontractor or an authorized representative of the Sub-subcontractor.

### § 5.2 AWARD OF SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE WORK

§ 5.2.1 Identification of Subcontractors required by N.J.S.A. 40A:11-16 shall be provided with the bid submission in accordance with the requirements of that statute. Names of persons or entities for any Subcontractor not covered by N.J.S.A. 18A-18 shall be furnished within thirty (30) days of notification of Award of Contract. The Engineer, or his designee will notify the Contractor in writing if the Owner or Engineer, or his designee, after due investigation, has reasonable objection to any such proposed person or entity. The list of proposed Subcontractors shall include a description of the materials and equipment each proposes to furnish and install in the Work. The description shall be in sufficient detail to allow the Engineer, or his designee to determine general conformance to Contract requirements. Approval of the submittals as required under this Article shall not relieve the Contractor from conformance to Contract requirements.



§5.2.2 Subcontractors shall comply with the statutory requirements of N.J.S.A. 34:11-56.25 and N.J.S.A. 34:11-56.48. Any subcontractors who fail to comply with those statutory provisions shall be rejected.

§5.2.3 Written confirmation of award of each major subcontract shall be submitted to the Owner by the Contractor, in form subject to his approval, within seven (7) days after receipt of Owner's approval of proposed Subcontractor list as provided under this Article. Every subcontract shall be in writing, shall be submitted to Owner for review and approval prior to execution, and shall specifically provide that the Owner is an intended third (3<sup>rd</sup>) party beneficiary of such subcontract.

§ 5.2.4 The Contractor shall not contract with a proposed person or entity to whom the Owner or Engineer, or his designee has made reasonable and timely objection. The Contractor shall not be required to contract with anyone to whom the Contractor has made reasonable objection.

§ 5.2.5 If the Owner or Engineer, or his designee has reasonable objection to a person or entity proposed by the Contractor, the Contractor shall propose another to whom the Owner or Engineer, or his designee has no reasonable objection. If the proposed but rejected Subcontractor was reasonably capable of performing the Work, the Contract Sum and Contract Time shall be increased or decreased by the difference, if any, occasioned by such change, and an appropriate Change Order shall be issued before commencement of the substitute Subcontractor's Work. However, no increase in the Contract Sum or Contract Time shall be allowed for such change unless the Contractor has acted promptly and responsively in submitting names as required.

§ 5.2.6 The Contractor shall not substitute a Subcontractor, person or entity previously selected if the Owner or Engineer, or his designee makes reasonable objection to such substitution.

### § 5.3 SUBCONTRACTUAL RELATIONS

§5.3.1 By appropriate agreement, written where legally required for validity, the Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities, including the responsibility for safety of the Subcontractor's Work, which the Contractor, by these Documents, assumes toward the Owner and Engineer, or his designee. Each subcontract agreement shall preserve and protect the rights of the Owner and Engineer, or his designee under the Contract Documents and at law. No Subcontract shall diminish in any way any rights or benefits conferred upon the Owner by these Contract Documents. The Contractor shall make all Contract Documents available to the Subcontractors.

§5.3.2 Where the Contractor sublets portions of the Work, the entire responsibility for the subdividing of Work rests with the Contractor. The Owner and the Engineer, or his designee are not responsible for the manner of the subdivision of the Work, nor will they enter into or settle disagreements or disputes between Contractor and Subcontractors. The Contractor is, and will be held, responsible for the proper execution of the Work of all Subcontractors.

### § 5.4 CONTINGENT ASSIGNMENT OF SUBCONTRACTS

§ 5.4.1 Each subcontract agreement for a portion of the Work is assigned by the Contractor to the Owner, provided that

- 1 assignment is effective only after termination of the Contract by the Owner for cause pursuant to Section 14.2 and only for those subcontract agreements that the Owner accepts by notifying the Subcontractor and Contractor in writing.

§ 5.4.2 Upon such assignment to the Owner under this Section 5.4, the Owner may further assign the subcontract to a successor Contractor or other entity.

## ARTICLE 6 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

### § 6.1 OWNER'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE CONTRACTS

§ 6.1.1 The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces, and to award separate contracts in connection with other portions of the Project or other construction or operations on the site.



§ 6.1.2 The Owner shall provide for coordination of the activities of the Owner's own forces and of each separate Contractor with the Work of the Contractor, who shall cooperate with them. The Contractor shall participate with other separate contractors and the Owner in reviewing their construction schedules. The Contractor shall make any revisions to the construction schedule deemed necessary after a joint review and mutual agreement. The construction schedules shall then constitute the schedules to be used by the Contractor, separate contractors and the Owner until subsequently revised.

#### § 6.2 MUTUAL RESPONSIBILITY

§ 6.2.1 The Contractor shall afford the Owner and separate contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities, and shall connect and coordinate the Contractor's construction and operations with theirs as required by the Contract Documents.

§ 6.2.2 If part of the Contractor's Work depends for proper execution or results upon construction or operations by the Owner or a separate Contractor, the Contractor shall, prior to proceeding with that portion of the Work, promptly report to the Engineer, or his designee apparent discrepancies or defects in such other construction that would render it unsuitable for such proper execution and results. Failure of the Contractor so to report shall constitute an acknowledgment that the Owner's or separate Contractor's completed or partially completed construction is fit and proper to receive the Contractor's Work, except as to defects not then reasonably discoverable.

§ 6.2.3 The Contractor shall reimburse the Owner for costs the Owner incurs that are payable to a separate Contractor because of the Contractor's delays, improperly timed activities or defective construction. The Owner shall be responsible to the Contractor for costs the Contractor incurs because of a separate Contractor's delays, improperly timed activities, damage to the Work or defective construction.

§ 6.2.4 The Contractor shall promptly remedy damage the Contractor wrongfully causes to completed or partially completed construction or to property of the Owner or separate contractors as provided in Section 10.2.5.

§ 6.2.4.1 Should the Contractor cause damage to the Work or property of any separate Contractor on the Project, the Contractor shall promptly settle with such other Contractor by agreement, or otherwise resolve the dispute. If such separate Contractor institutes any legal proceeding against the Owner on account of any damage alleged to have been so sustained, the Contractor shall, indemnify, defend, or bear the cost of defense as the Owner shall in its own discretion determine, and hold the Owner's harmless. Said indemnification shall be governed by Section 13, Page G7 of the Instructions to Bidders.

§ 6.2.5 The Owner and each separate Contractor shall have the same responsibilities for cutting and patching as are described for the Contractor in Section 3.14.

#### § 6.3 OWNER'S RIGHT TO CLEAN UP

If a dispute arises among the Contractor, separate contractors and the Owner as to the responsibility under their respective contracts for maintaining the premises and surrounding area free from waste materials and rubbish, the Owner may clean up and the Engineer, or his designee will allocate the cost among those responsible, which amounts the Owner shall be entitled to reduce the Contract Amounts of the various contracts of those responsible.

### ARTICLE 7 CHANGES IN THE WORK

#### § 7.1 GENERAL

§ 7.1.1 Changes in the Work may be accomplished after execution of the Contract, and without invalidating the Contract, by Change Order, Construction Change Directive or order for a minor change in the Work, subject to the limitations stated in this Article 7 and elsewhere in the Contract Documents. Change Orders and Construction Change Directives shall be subject to and processed in accordance with N.J.A.C. 6A:23-7 and N.J.A.C. 6A:26-4.9, where applicable.

§ 7.1.2 A Change Order shall be based upon agreement among the Owner, Contractor and Engineer, or his designee; a Construction Change Directive requires a written agreement by the Owner and Engineer, or his designee and may or may not be agreed to by the Contractor; an order for a minor change in the Work which does not extend the Contract Time, increase the Contract Sum or change the Project Scope may be issued by the Engineer, or his designee alone.

§ 7.1.3 Changes in the Work shall be performed under applicable provisions of the Contract Documents, and the Contractor shall proceed promptly, unless otherwise provided in the Change Order, Construction Change Directive or order for a minor change in the Work.

§ 7.1.4 In order to facilitate checking of quotations for extras or credits, all proposals shall be accompanied by a complete itemization of costs including labor, materials and subcontracts. Labor and materials shall be itemized in the manner prescribed above. Where major cost items are subcontracts, they shall be itemized also. In no case will a change be approved without such itemization.

## § 7.2 CHANGE ORDERS

§ 7.2.1 A Change Order is a written instrument prepared by the Engineer, or his designee and signed by the Owner, Contractor and Engineer, or his designee stating their agreement upon all of the following:

- .1 The change in the Work;
- .2 The amount of the adjustment, if any, in the Contract Sum; and
- .3 The extent of the adjustment, if any, in the Contract Time.

A Change Order shall not require consent of the Owner if the Owner has provided an allowance for such a change.

§ 7.2.2 Methods used in determining adjustments to the Contract Sum shall be those listed in Section 7.3.3.

§ 7.2.3 Agreement on any Change Order shall constitute a final settlement of all matters relating to the change in the Work that is the subject of the Change Order, including, but not limited to, all direct and indirect costs associated with such change, and any and all adjustments to the Contract Sum and the construction schedule. In the event a Change Order increases the Contract Sum, Contractor shall include the Work covered by such Change Orders in Applications for Payment as if such Work were originally part of the Contract Documents.

## § 7.3 CONSTRUCTION CHANGE DIRECTIVES

§ 7.3.1 A Construction Change Directive is a written order prepared by the Engineer, or his designee and signed by the Owner and Engineer, or his designee, directing a change in the Work prior to agreement on adjustment, if any, in the Contract Sum or Contract Time, or both. A Construction Change Directive shall not require the Agreement of the Engineer, or his designee if the Owner specifically waives their consent in writing. The Owner may by Construction Change Directive, without invalidating the Contract, order changes in the Work within the general scope of the Contract consisting of additions, deletions or other revisions, the Contract Sum and Contract Time being adjusted accordingly.

§ 7.3.2 A Construction Change Directive shall be used in the absence of total agreement on the terms of a Change Order.

§ 7.3.3 If the Construction Change Directive provides for an adjustment to the Contract Sum, the adjustment shall be based on one of the following methods:

- .1 Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation;
- .2 Unit prices stated in the Contract Documents or subsequently agreed upon;
- .3 Cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee; or
- .4 As provided in Section 7.3.6.

§ 7.3.4 Upon receipt of a Construction Change Directive, the Contractor shall promptly proceed with the change in the Work involved and advise the Engineer, or his designee of the Contractor's agreement or disagreement with the method, if any, provided in the Construction Change Directive for determining the proposed adjustment in the Contract Sum or Contract Time. The Contractor's failure to comply with a Construction Change Directive shall constitute an incident of default and cause for termination by the Owner.

§ 7.3.5 A Construction Change Directive signed by the Contractor indicates the Contractor's agreement therewith, including adjustment in Contract Sum and Contract Time or the method for determining them. Such agreement shall be effective immediately and shall be recorded as a Change Order.

§ 7.3.6 If the Contractor does not respond promptly or disagrees with the method for adjustment in the Contract Sum, the Engineer, or his designee shall determine the method and the adjustment on the basis of reasonable expenditures and savings of those performing the Work attributable to the change, including, in case of an increase in the Contract Sum, an amount for overhead and profit as set forth in the Agreement, or if no such amount is set forth in the Agreement, a reasonable amount. In such case, and also under Section 7.3.3.3, the Contractor shall keep and present, in such form as the Engineer, or his designee may prescribe, an itemized accounting together with appropriate supporting data. Unless otherwise provided in the Contract Documents, costs for the purposes of this Section 7.3.6 shall be limited to the following:

- .1 Costs of labor, including social security, old age and unemployment insurance, fringe benefits required by agreement or custom, and workers' compensation insurance;
- .2 Costs of materials, supplies and equipment, including cost of transportation, whether incorporated or consumed;
- .3 Rental costs of machinery and equipment, exclusive of hand tools, whether rented from the Contractor or others; and
- .4 Costs of premiums for all bonds and insurance, permit fees, and sales, use or similar taxes related to the Work.

§ 7.3.7 The amount of credit to be allowed by the Contractor to the Owner for a deletion or change that results in a net decrease in the Contract Sum shall be actual net cost as confirmed by the Engineer, or his designee. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for overhead and profit shall be figured on the basis of net increase, if any, with respect to that change.

§ 7.3.8 Pending final determination of the total cost of a Construction Change Directive to the Owner, the Contractor may request payment for Work completed under the Construction Change Directive in Applications for Payment. The Engineer, or his designee will make an interim determination for purposes of monthly certification for payment for those costs and certify for payment the amount that the Engineer, or his designee determines, in the Engineer, or his designee's professional judgment, to be reasonably justified. The Engineer, or his designee's interim determination of cost shall adjust the Contract Sum on the same basis as a Change Order, subject to the right of either party to disagree and assert a Claim in accordance with Article 15.

§ 7.3.9 When the Owner and Contractor agree with a determination made by the Engineer, or his designee concerning the adjustments in the Contract Sum and Contract Time, or otherwise reach agreement upon the adjustments, such agreement shall be effective immediately and the Engineer, or his designee will prepare a Change Order. Change Orders may be issued for all or any part of a Construction Change Directive.

§ 7.3.10 In subparagraphs 7.3.3 and 7.3.6, the allowance for overhead and profit combined shall be based upon the following schedule:

- .1 For the Contractor, for work performed by his own forces, 10% of cost.
- .2 For each Subcontractor, for the work performed by his own forces, 10% of cost.
- .3 For the Contractor, for work performed by a subcontractor, 5% of cost.

§ 7.3.11 Lump sum quotations for changes in the Work will not be accepted. Proposals shall be completely itemized and broken down. They shall be accompanied by such supporting data as the Engineer, or his designee may require, such as copies of subcontractor's or vendor's quotations, quantity take-off sheets, or other similar information.

#### § 7.4 MINOR CHANGES IN THE WORK

The Engineer, or his designee has authority to order minor changes in the Work not involving adjustment in the Contract Sum or extension of the Contract Time and not inconsistent with the intent of the Contract Documents. Such changes will be effected by written order signed by the Engineer, or his designee and shall be binding on the Owner and Contractor. The Contractor shall carry out such written orders promptly.

#### ARTICLE 8 TIME

##### § 8.1 DEFINITIONS

§ 8.1.1 Unless otherwise provided, Contract Time is the period of time, including authorized adjustments, allotted in the Contract Documents for Substantial Completion of the Work and services as required by the Contract

Documents, Substantial Completion of the Work shall be accomplished within the period of consecutive calendar days (or by the date), as stated in the Agreement, plus any authorized extension(s) of time as approved by written agreement. Final Completion of the Work shall be no later than thirty (30) consecutive calendar days from the date of Substantial Completion of the Work, unless otherwise set forth in Article 3.2 of the Owner/Contractor Agreement.

§ 8.1.2 Intentionally omitted

§ 8.1.3 Intentionally omitted.

§ 8.1.4 The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

## § 8.2 PROGRESS AND COMPLETION

§ 8.2.1 Time limits stated in the Contract Documents are of the essence of the Contract. By executing the Agreement the Contractor confirms that the Contract Time is a reasonable period for performing the Work. There will be no bonus or incentives paid, should the Work, or any portion thereof, be completed in advance of the specified activity milestone dates.

§ 8.2.2 The Contractor shall not knowingly, except by agreement or instruction of the Owner in writing, prematurely commence operations on the site or elsewhere prior to the effective date of insurance required by Article 11 to be furnished by the Contractor and Owner. The date of commencement of the Work shall not be changed by the effective date of such insurance.

§ 8.2.3 The Contractor shall proceed expeditiously with adequate forces and shall achieve Substantial Completion within the Contract Time.

## § 8.3 DELAYS AND EXTENSIONS OF TIME

§ 8.3.1 Intentionally omitted

§ 8.3.2 Claims relating to time shall be made in accordance with applicable provisions of Article 15.

§ 8.3.3 Intentionally omitted

§ 8.3.4 No payment, compensation, or adjustment of any kind shall be made to the Contractor by the Owner for damages resulting from hindrances or delays caused by the delays of other contractors, or from foreseeable circumstances not attributable to the Owner's conduct. The Contractor agrees that it will make no claim against the Owner for payment, compensation, damages, mitigation of Liquidated Damages, or adjustment of any kind for such hindrances or delays, and will accept such extensions of time as may be granted by the Owner in the Owner's sole discretion in full satisfaction for any and all alleged claims against the Owner for any and all such hindrances or delays. For purposes of this Agreement, disputes arising between contractors before or during construction, adverse weather conditions, and delays on the part of local authorities issuing permits shall be considered foreseeable circumstances. Notwithstanding the foregoing, nothing herein shall limit the Contractor's remedies for Owner's negligence, bad faith, active interference, tortious conduct, or other reasons un contemplated by the parties that delay expenditures paid by the Owner to the Engineer, or his designee, other individual or entity, or to any inspector or inspectors necessarily employed by it on the Work, for any number of days in excess of the Contract Time, shall be deducted for the Contract Sum.

§ 8.3.5 The provisions of this Article shall not be so interpreted or construed as to preclude or prevent the Contractor from making and prosecuting any claim against any separate Contractor engaged or employed by the Owner for damages alleged to have been caused or occasioned by any such separate Contractor.

§ 8.3.6 To the extent permitted by law, the Owner may suspend the whole or any part of the Work, if it shall deem it for the best interest of the Owner to do so, without compensation to the Contractor for such suspension, other than extending the time for completion of the Work as much as it may have been delayed by such suspension. During such suspension, all materials delivered upon, but not placed in the Work shall be neatly piled by the Contractor so as not to obstruct public travel, or shall be removed from the line of Work at the direction of the Owner and, unless the

materials be moved by the Contractor upon such direction, the materials shall be removed by the Owner and expense thereof will be charged to the Contractor.

§8.4.1 Should the Contractor fail to complete fully, and in conformity with all provisions of the Contract within the Contract Time, the Contractor shall, and hereby agrees to, pay the Owner one thousand dollars (\$1,000.00) per day, for each consecutive calendar day beyond the number of days allowed by the Contract, which sum is agreed upon as reasonable and proper measure of damages that the Owner will sustain per diem by failure of Contractor to complete Work within time as stipulated; it being recognized by Owner and Contractor that the injury to Owner that could result from a failure of the Contractor to complete on schedule, is uncertain and cannot be computed exactly. In no way shall costs of Liquidated Damages be construed as a penalty to the Contractor.

§8.4.2 It is expressly understood and agreed by and between the Contractor and Owner that the Contract Time prescribed herein is a reasonable time for the completion of the Work.

## ARTICLE 9 PAYMENTS AND COMPLETION

### § 9.1 CONTRACT SUM

The Contract Sum is stated in the Agreement and, including authorized adjustments, is the total amount payable by the Owner to the Contractor for performance of the Work under the Contract Documents.

### § 9.2 SCHEDULE OF VALUES

Where the Contract is based on a stipulated sum or Guaranteed Maximum Price, the Contractor shall submit to the Engineer, or his designee, before the first Application for Payment, a schedule of values allocating the entire Contract Sum to the various portions of the Work and prepared in such form and supported by such data to substantiate its accuracy as the Engineer, or his designee may require. This schedule, unless objected to by the Engineer, or his designee, shall be used as a basis for reviewing the Contractor's Applications for Payment.

### § 9.3 APPLICATIONS FOR PAYMENT

§ 9.3.1 See Article 5 of Standard Form of Agreement between Owner/Contractor.

§ 9.3.1.1 Applications for Payment may include requests for payment on account of changes in the Work which have been properly authorized by Construction Change Directives but not yet included in Change Orders.

§ 9.3.1.2 Such applications may not include requests for payment of amounts the Contractor does not intend to pay to a Subcontractor or material supplier because of a dispute or other reason.

§ 9.3.1.3 All applications for payment shall be accompanied by the Application and Certificate of Payment, AIA Document G702, and the Continuation Sheet, AIA Document G703, fully completed as required or such other application for Payment as the Owner's representative shall use.

§9.3.1.4 In cases where the work is awarded on a Single Overall Contract basis, payments shall be made in accordance with applicable State of New Jersey statutes.

§ 9.3.2 Unless otherwise provided in the Contract Documents, payments shall be made on account of materials and equipment delivered and suitably stored at the site for subsequent incorporation in the Work. If approved in advance by the Owner, payment may similarly be made for materials and equipment suitably stored off the site at a location agreed upon in writing. Payment for materials and equipment stored on or off the site shall be conditioned upon compliance by the Contractor with procedures satisfactory to the Owner to establish the Owner's title to such materials and equipment or otherwise protect the Owner's interest, and shall include the costs of applicable insurance, storage and transportation to the site for such materials and equipment stored off the site.

§ 9.3.3 The Contractor warrants that title to all Work covered by an Application for Payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an Application for Payment all Work for which Certificates for Payment have been previously issued and payments received from the Owner shall, to the best of the Contractor's knowledge, information and belief, be free and clear of liens, claims, security interests or encumbrances in favor of the Contractor, Subcontractors, material suppliers, or other persons or entities making a claim by reason of having provided labor, materials and equipment relating to the Work.

§9.3.3.1 All municipal mechanic's liens filed by a lien claimant shall be governed by N.J.S.A. 2A:44-125 et seq. In the event a municipal mechanic's lien is filed, the Owner reserves the right to withhold the full amount of the lien. The Owner may release the funds to the party against whose account the lien is claimed, only after that party files with the Owner's financial officer, a bond in an amount double of all sums claimed ("Double Bond") under the lien, and such bond's form has been approved by the Owner's chief law officer and financial officer, per N.J.S.A. 2A:44-130 or if an acceptable release of liens is filed by the lien claimant.

#### § 9.4 CERTIFICATES FOR PAYMENT

§ 9.4.1 See Article 5 of Standard Form of Agreement between Owner and Contractor.

§ 9.4.2 See Article 5 of Standard Form of Agreement between Owner and Contractor

§ 9.4.3 See Article 5 of Standard Form of Agreement between Owner and Contractor.

#### § 9.5 DECISIONS TO WITHHOLD CERTIFICATION

§ 9.5.1 See Article 5 of Standard Form of Agreement between Owner and Contractor

§ 9.5.2 See Article 5 of Standard Form of Agreement between Owner and Contractor.

#### § 9.6 PROGRESS PAYMENTS

§ 9.6.1 After the Engineer, or his designee has issued a Certificate for Payment, the Owner shall make payment in the manner and within the time provided in the Contract Documents, and shall so notify the Engineer, or his designee .

§ 9.6.2 The Contractor shall promptly pay each Subcontractor, upon receipt of payment from the Owner, out of the amount paid to the Contractor on account of such Subcontractor's portion of the Work, the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work and shall certify same to Owner. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to Sub-subcontractors in a similar manner.

§ 9.6.3 The Engineer, or his designee will, on request, furnish to a Subcontractor, if practicable, information regarding percentages of completion or amounts applied for by the Contractor and action taken thereon by the Owner and Engineer, or his designee on account of portions of the Work done by such Subcontractor.

§ 9.6.4 Neither the Owner nor Engineer, or his designee shall have an obligation to pay or to see to the payment of money to a Subcontractor except as may otherwise be required by law.

§ 9.6.5 Payment to material and equipment suppliers shall be treated in a manner similar to that provided in Sections 9.6.2, 9.6.3 and 9.6.4.

#### § 9.7 FAILURE OF PAYMENT

If the Engineer, or his designee does not issue a Certificate for Payment, through no fault of the Contractor, within seven days after receipt of the Contractor's Application for Payment, or if the Owner does not pay the Contractor within seven days after the date established in the Contract Documents the amount certified by the Engineer, or his designee or awarded by binding dispute resolution, then the Contractor may, upon seven additional days' written notice to the Owner and Engineer, or his designee , stop the Work until payment of the amount owing has been received. The Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable costs of shut-down, delay and start-up, plus interest as provided for in the Contract Documents.

#### § 9.7 REIMBURSEMENT TO OWNER

§ 9.7.1 If the Owner is entitled to any reimbursement or payment from the Contractor under, or pursuant to, the Contract Documents, such payment shall be made promptly upon demand by the Owner. Notwithstanding anything contained in the Contract Documents to the contrary, if the Contractor fails to promptly make any payment due the Owner, or the Owner incurs any costs and expenses to cure any default of the Contractor or to correct defective Work, the Owner shall have an absolute right to offset such amount against the Contract Sum and may, in the Owner's sole discretion, elect either to: (1) deduct an amount equal to that which the Owner is entitled from any

payment then, or thereafter, due the Contractor from the Owner; or (2) issue a written notice to the Contractor reducing the Contract Sum by an amount equal to that which the Owner is entitled.

### § 9.8 SUBSTANTIAL COMPLETION

§ 9.8.1 Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use; provided, however, that a condition precedent to Substantial Completion shall be the Owner's receipt of all certificates of occupancy (permanent or temporary) and any other permits, approvals, licenses, and other documents from any governmental authority having jurisdiction thereof necessary for the occupancy of the Project. The Owner may withhold a certification of Substantial Completion if temporary installations or temporary construction exists in areas requesting certification, or if certificates of occupancy are temporary or conditional.

§ 9.8.2 When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Engineer, or his designee shall prepare a comprehensive list of items to be completed or corrected ("Punch List"). The Contractor shall proceed immediately to complete and correct items on the list. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents. Upon receipt of the list, the Engineer, or his designee will make an inspection to determine whether the Work or designated portion thereof is substantially complete. If the Engineer, or his designee's inspection discloses any item, whether or not included on the list, which is not in accordance with the requirements of the Contract Documents, the Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such item upon notification by the Engineer, or his designee. The Contractor shall then submit a request for another inspection by the Engineer, or his designee to determine Substantial Completion. When the Work or designated portion thereof is substantially complete, the Engineer, or his designee will prepare a Certificate of Substantial Completion which shall establish the date of Substantial Completion, shall establish responsibilities of the Contractor for security, maintenance, heat, utilities, damage to the Work and insurance, and shall fix the time within which the Contractor shall finish all items on the List accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion. The Certificate of Substantial Completion shall be submitted to the Contractor for its written acceptance and to the Owner for its approval and acceptance as required by Section 9.8.1. No Certificate of Substantial Completion shall be deemed effective unless executed by both Owner and Contractor.

### § 9.9 PARTIAL OCCUPANCY OR USE

§ 9.9.1 The Owner may occupy or use any completed or partially completed portion of the Work at any stage when such portion is designated by separate agreement with the Contractor, who shall obtain all necessary modifications to its insurance coverage to permit such occupancy or use. In addition, Contractor shall obtain consent of those public authorities having jurisdiction over the Work. Such partial occupancy or use may commence whether or not the portion is substantially complete pursuant to the terms of that Agreement. When the Contractor considers a portion substantially complete, the Engineer, or his designee shall prepare a Punch List as provided under Section 9.8.2. Consent of the Contractor to partial occupancy or use shall not be unreasonably withheld.

§ 9.9.2 Immediately prior to such partial occupancy or use, the Owner, Contractor and Engineer, or his designee shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work.

§ 9.9.3 Unless otherwise agreed upon, partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

§ 9.9.4 The occupancy of any portion of the Work shall not constitute acceptance of any Work, except as hereinafter stated, nor does it waive the Owner's right to Liquidated Damages. Final Acceptance of the Work shall be for the whole Work only and not part.

§ 9.9.5 Occupancy by the Owner shall not be deemed to constitute a waiver of existing claims on behalf of the Owner or Contractor against each other.

## § 9.10 FINAL COMPLETION AND FINAL PAYMENT

§ 9.10.1 Upon completion of the Work, the Contractor shall forward to the Engineer, or his designee a written notice that the Work is ready for final inspection and acceptance and shall also forward to the Engineer, or his designee a final Contractor's Application for Payment. The Engineer, or his designee will promptly make such inspection. When the Engineer, or his designee finds the Work acceptable under the Contract Documents and the Contract fully performed, the Engineer, or his designee will promptly issue a final Certificate for Payment stating that to the best of their knowledge, information and belief, and on the basis of their observations and inspections, the Work has been completed in accordance with terms and conditions of the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. The Engineer, or his designee's final Certificate for Payment will constitute a further representation that conditions listed in Section 9.10.2 as precedent to the Contractor's being entitled to final payment have been fulfilled.

§ 9.10.2 Neither final payment nor any remaining retained percentage shall become due until the Contractor complies with all requirements set forth in Section 6 of the Standard Form of Agreement between Owner and Contractor and the Contractor submits to the Engineer, or his designee (1) an affidavit that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or the Owner's property might be responsible or encumbered (less amounts withheld by Owner) have been paid or otherwise satisfied, (2) a certificate evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect and will not be canceled or allowed to expire until at least 30 days' prior written notice has been given to the Owner, (3) a written statement that the Contractor knows of no substantial reason that the insurance will not be renewable to cover the period required by the Contract Documents, (4) consent of surety, if any, to final payment and (5), if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts, releases and waivers of liens, claims, security interests or encumbrances arising out of the Contract, to the extent and in such form as may be designated by the Owner. If a Subcontractor refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond satisfactory to the Owner to indemnify the Owner against such lien. If such lien remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging such lien, including all costs and reasonable attorneys' fees.

§ 9.10.3 Intentionally omitted

§ 9.10.4 Acceptance of final payment by the Contractor, a Subcontractor or material supplier shall constitute a waiver of claims by that payee

## ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

### § 10.1 SAFETY PRECAUTIONS AND PROGRAMS

The Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the performance of the Contract. The Contractor shall submit the Contractor's safety program to the Engineer, or his designee for review and coordination with the safety programs of other Contractors.

### § 10.2 SAFETY OF PERSONS AND PROPERTY

§ 10.2.1 The Contractor shall take reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury or loss to

- .1 employees on the Work and other persons who may be affected thereby;
- .2 the Work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody or control of the Contractor or the Contractor's Subcontractors or Sub-subcontractors; and
- .3 other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.
- .4 Construction or operations by the Owner or other Contractors.

§ 10.2.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities bearing on safety of persons or property or their protection from damage, injury or loss.



§ 10.2.3 The Contractor shall erect and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards, promulgating safety regulations and notifying Owners and users of adjacent sites and utilities.

§ 10.2.4 When use or storage of explosives or other hazardous materials or equipment or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel.

§ 10.2.5 The Contractor shall promptly remedy damage and loss (other than damage or loss insured under property insurance required by the Contract Documents) to property referred to in Sections 10.2.1.2, 10.2.1.3 and 10.2.1.4 caused in whole or in part by the Contractor, a Subcontractor, a Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 10.2.1.2, 10.2.1.3 and 10.2.1.4, except damage or loss attributable to acts or omissions of the Owner or Engineer, or his designee or anyone directly or indirectly employed by either of them, or by anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to the Contractor's obligations under Section 3.18.

§ 10.2.6 The Contractor shall designate a responsible member of the Contractor's organization at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated by the Contractor in writing to the Owner and Engineer, or his designee.

§ 10.2.7 The Contractor shall not permit any part of the construction or site to be loaded so as to cause damage or create an unsafe condition.

#### § 10.2.8 INJURY OR DAMAGE TO PERSON OR PROPERTY

If either party suffers injury or damage to person or property because of an act or omission of the other party, or of others for whose acts such party is legally responsible, written notice of such injury or damage, whether or not insured, shall be given to the other party within a reasonable time not exceeding 21 days after discovery. The notice shall provide sufficient detail to enable the other party to investigate the matter.

#### § 10.3 HAZARDOUS MATERIALS

§ 10.3.1 The Contractor is responsible for compliance with any requirements included in the Contract Documents regarding hazardous materials. If the Contractor encounters a hazardous material or substance not addressed in the Contract Documents and if reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance, including but not limited to asbestos or polychlorinated biphenyl (PCB), encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition, immediately stop Work in the affected area and report the condition to the Owner and Engineer, or his designee in writing.

§ 10.3.2 Upon receipt of the Contractor's written notice, the Owner shall obtain the services of a licensed laboratory to verify the presence or absence of the material or substance reported by the Contractor and, in the event such material or substance is found to be present, to cause it to be rendered harmless. Unless otherwise required by the Contract Documents, the Owner shall furnish in writing to the Contractor and Engineer, or his designee the names and qualifications of persons or entities who are to perform tests verifying the presence or absence of such material or substance or who are to perform the task of removal or safe containment of such material or substance.

#### § 10.3.3 Intentionally omitted

§ 10.3.4 The Owner shall not be responsible under this Section 10.3 for materials or substances the Contractor brings to the site unless such materials or substances are required by the Contract Documents. The Owner shall be responsible for materials or substances required by the Contract Documents, except to the extent of the Contractor's fault or negligence in the use and handling of such materials or substances.

§ 10.3.5 The Contractor shall indemnify the Owner for the cost and expense the Owner incurs (1) for remediation of a material or substance the Contractor brings to the site and negligently handles, or (2) where the Contractor fails to perform its obligations under Section 10.3.1, except to the extent that the cost and expense are due to the Owner's fault or negligence.

§ 10.3.6 Intentionally omitted

#### § 10.4 EMERGENCIES

In an emergency affecting safety of persons or property, the Contractor shall act, at the Contractor's discretion, to prevent threatened damage, injury or loss. Additional compensation or extension of time claimed by the Contractor on account of an emergency shall be determined as provided in Article 15 and Article 7.

### ARTICLE 11 INSURANCE AND BONDS

#### § 11.1 CONTRACTOR'S LIABILITY INSURANCE

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

1. Automobile Liability Insurance in any amount of not less than \$1,000,000.00 combined single limits for Bodily Injury and Property Damage Liability. A certificate of such current insurance will be provided to the County and will reflect the provision of at least thirty (30) days notice to the County before any major cancellation or major change may be made the policy.

2. Workers Compensation Insurance insuring the obligations of the Contractor and all Subcontractors under the New Jersey Workers Compensation and Occupational Disability Laws as respects to Work performed under the Contract. Insurance will be extended to include any obligations under the United States Longshoremen's and Harbor Workers Act or any maritime act, when applicable.

3. General Liability Insurance will be provided on a Comprehensive General Liability form with a combined single limit of \$3,000,000.00 per occurrence for Bodily Injury Liability and Property Damage Liability and will include the interest of the County with respect to Work emanating from the Contract with the County. The insurance will include the following:

- a) Personal Injury Liability
- b) Blanket Contractual Liability applies to assumption of liability under any written Contract
- c) Coverage for A, X, C, U exposures, relating to excavation, blasting underground damage
- d) Broad Form Property Damage Liability
- e) Products and/or Completed Operations Liability

A Certificate of Insurance will be filed with the County prior to commencement of any Work. This certificate will contain a provision that insurance afforded under the policies will not be canceled without at least (30) days prior written notice being given to the County.

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§ 11.1.2 The insurance required by Section 11.1.1 shall remain in effect for the duration of the project, i.e., from beginning of construction until final payment and closeout.

§ 11.1.3 All insurance required by Section 11.1.1 shall be issued by insurance companies authorized to do business in the State of New Jersey and rated as "A" or better as determined by A.M. Best Company.

§ 11.1.4 The Contractor waives all rights against the Owner for damages caused by fire or other perils to the extent covered by insurance provided under this Article. Any deductibles, co-insurance, or contribution to the loss will be borne solely by the Contractor.

§ 11.1.5 A certificate of insurance evidencing the coverages required by Section 11.1.1 shall be submitted to the Owner's attorney for approval and transmittal to the Owner and Engineer, or his designee prior to the commencement of the Work. The certificate must be submitted on the ACORD from Certificate of Insurance. These certificates and the insurance policies required by this Section 11.1 shall contain a provision that coverages afforded under the policies will not be canceled or allowed to expire until at least thirty (30) days written notice has been given to the Owner. If requested by the Owner, the Contractor shall provide complete copies of any policies of insurance required by this Contract to be obtained by the Contractor and Subcontractor(s). Information concerning any reduction of coverage shall be furnished by the Contractor with reasonable promptness in accordance with the Contractor's information and belief.

#### § 11.2 PROPERTY INSURANCE

§ 11.2.1 Unless otherwise provided, the Owner shall purchase and maintain, in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located, property insurance in the amount of the initial Contract Sum as well as subsequent modifications thereto for the entire Work at the site on a replacement cost

basis without voluntary deductibles. Such property insurance shall be maintained, unless otherwise provided in the Contract Documents or otherwise agreed in writing by all persons and entities who are beneficiaries of such insurance, until final payment has been made as provided in Section 9.10 or until no person or entity other than the Owner has an insurance interest in the property required by this Section 11.2 to be covered, whichever is earlier. This insurance shall include the interest of the Owner, Contractor, Subcontractor(s), and Sub-Contractor(s) in the Work.

§ 11.2.1.1 Property insurance shall be on an "all-risk" policy form and shall be against the perils of fire and extended coverage and physical loss or damage including, without duplication of coverage, theft, vandalism, malicious mischief, collapse, falsework, temporary buildings and debris removal including demolition occasioned by enforcement of any applicable legal requirements, and shall cover reasonable compensation for Engineer, or his designee's services and expenses required as a result of such insured loss. Coverage for all other perils shall not be required unless otherwise provided in the Contract Documents.

§ 11.2.1.2 If the Owner does not intend to purchase such property insurance required by the Contract and with all of the coverages in the amount described above, the Owner shall so inform the Contractor in writing prior to commencement of the Work. The Contractor may then effect insurance which will protect the interests of the Contractor, Subcontractor(s) and Sub-subcontractor(s) in the Work. If the Contractor is damaged by the failure or neglect of the Owner to purchase or maintain insurance as described above, without so notifying the Contractor, then the Owner shall bear all reasonable costs properly attributable thereto.

§ 11.2.1.3 If the property insurance requires minimum deductibles, and such deductibles are identified in the Contract Documents, the Contractor shall pay costs not covered because of such deductibles. If the Owner or insurer increases the required minimum deductibles over the amounts so identified or of the Owner elects to purchase this insurance with voluntary deductible amounts, the Owner shall be responsible for payment of the additional costs not covered because of such increased or voluntary deductibles.

§ 11.2.1.4 Unless otherwise provided in the Contract documents, this property insurance shall cover portions of the Work stored off the site after written approval of the Owner at the value established in the approval, and also portions of the Work in transit.

§ 11.2.1.5 A loss insured under Owner's property insurance shall be adjusted by the Owner as fiduciary and made payable to the Owner as fiduciary for the insureds, as their interests may appear, subject to requirements of any applicable mortgage clause and of Section 11.3.10. The Contractor shall pay Subcontractor(s) their just shares of insurance proceeds received the Contractor, and by appropriate agreements, written where legally required for validity, shall require Subcontractor(s) to make payments to their Sub-Contractor(s) in a similar manner.

#### § 11.2.2 BOILER AND MACHINERY INSURANCE

The Owner shall purchase and maintain boiler and machinery insurance required by the Contract Documents or by law, which shall specifically cover such insured objects during installation and until final acceptance by the Owner; this insurance shall include interests of the Owner, Contractor, Subcontractors and Sub-subcontractors in the Work, and the Owner and Contractor shall be named insureds. The Owner as fiduciary shall have the power to adjust and settle a loss with insurers.

#### § 11.2.3 LOSS OF USE INSURANCE

The Owner, at the Owner's option, may purchase and maintain such insurance as will insure the Owner against loss of use of the Owner's property due to fire or other hazards, however caused.

§ 11.2.4 If the Contractor requests in writing that insurance for risks other than those described herein or other special causes of loss be included in the property insurance policy, the Owner shall, if possible, include such insurance, and the cost thereof shall be charged to the Contractor by appropriate Change Order.

#### § 11.3 PERFORMANCE BOND, PAYMENT BOND AND MAINTENANCE BOND

§ 11.3.1 Contractor, at its sole expense, shall furnish bonds covering faithful performance of the contract and payment of obligations arising thereunder as stipulated in bidding requirements or specifically required in the Contract Documents on the date of execution of the Contract, including material and labor.

§ 11.3.2 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be made

§ 11.3.3 The Contractor shall file with the Owner, as a condition of final acceptance, a statement from the Surety of its Performance Bond and Payment Bond, that the Surety is satisfied that all claims for labor and material supplied under its contract have been satisfactorily settled.

§ 11.3.4 As a condition of Substantial Completion of the Work, the Contractor shall provide an acceptable Maintenance Bond in accordance with section 16, page G-9 of the Instructions to Bidders

## ARTICLE 12 UNCOVERING AND CORRECTION OF WORK

### § 12.1 UNCOVERING OF WORK

§ 12.1.1 If a portion of the Work uncovered is contrary to the Engineer, or his designee's request or to requirements specifically expressed in the Contract Documents, it must, if requested in writing by the Engineer, or his designee, be uncovered for the Engineer, or his designee's examination and be replaced at the Contractor's expense without change in the Contract Time or Contract Sum.

§ 12.1.2 If a portion of the Work has been covered that the Engineer, or his designee has not specifically requested to examine prior to its being covered, the Engineer, or his designee may request to see such Work and it shall be uncovered by the Contractor. If such Work is in accordance with the Contract Documents, costs of uncovering and replacement shall, by appropriate Change Order, be at the Owner's expense. If such Work is not in accordance with the Contract Documents, such costs and the cost of correction shall be at the Contractor's expense unless the condition was caused by the Owner or a separate Contractor in which event the Owner shall be responsible for payment of such costs.

### § 12.2 CORRECTION OF WORK

The Contractor shall promptly correct Work rejected by the Engineer, or his designee or failing to conform to the requirements of the Contract Documents, whether discovered before or after Substantial Completion and whether or not fabricated, installed or completed. Costs of correcting such rejected Work, including additional testing and inspections, the cost of uncovering and replacement, and compensation for the Engineer, or his designee's services and expenses made necessary thereby, shall be at the Contractor's expense.

§ 12.2.2.1 In addition to the Contractor's obligations under Section 3.5, if, within one year after the date of Substantial Completion of the Work or designated portion thereof or after the date for commencement of warranties established under Section 9.9.1, or by terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of written notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition. The Owner shall give such notice promptly after discovery of the non-conforming work. If the Contractor fails to correct nonconforming Work within a reasonable time during that period after the receipt of notice from the Owner or Engineer, or his designee, the Owner may correct it in accordance with Section 2.4. This obligation under Section 12.2.2 shall survive acceptance of the Work under the Contract and termination of the Contract.

§ 12.2.2.2 The one-year period for correction of Work shall be extended with respect to portions of Work first performed after Substantial Completion by the period of time between Substantial Completion and the actual completion of that portion of the Work.

§ 12.2.2.3 Intentionally omitted.

§ 12.2.3 The Contractor shall remove from the site portions of the Work that are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the Owner.

§ 12.2.4 The Contractor shall bear the cost of correcting destroyed or damaged work, whether completed or partially completed, of the Owner or separate contractors caused by the Contractor's correction or removal of Work that is not in accordance with the requirements of the Contract Documents.

§ 12.2.5 Nothing contained in this Section 12.2 shall be construed to establish a period of limitation with respect to other obligations the Contractor has under the Contract Documents. Establishment of the one-year period for correction of Work as described in Section 12.2.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the work, nor to any deficient Work discovered after the one-year period that could not have readily been discovered.

### § 12.3 ACCEPTANCE OF NONCONFORMING WORK

If the Owner prefers to accept Work, that is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made. However, there shall be no implied or expressed acceptance of Work not in compliance with applicable law. The amount of said reduction will be within the exclusive determination of the Owner as its representative.

## ARTICLE 13 MISCELLANEOUS PROVISIONS

### § 13.1 GOVERNING LAW

§ 13.1.1 The Contract shall be governed by the laws of the State of New Jersey.

§ 13.1.2 Nothing in the Contract Documents shall be construed to permit deviation from the governing law.

§ 13.1.3 In accordance with N.J.S.A. 40A:11-18, American manufactured products or materials shall be used in the Work, wherever possible.

### 13.1.4 RATE OF WAGES

Where the Project is not subject to a Project Labor Agreement, wage notes shall be paid pursuant to the New Jersey Prevailing Wage Act, N.J.S.A. 34:11-56.25 et seq, the Contractor and Subcontractor are required to do the following:

§ 13.1.4.1 Pay to all workmen engaged in the performance of services, directly upon a public work, the prevailing rate of wages, which shall be those in effect for the Project site(s) on the Contract Date and such rates shall remain in effect for (2) years, unless superseded by a subsequent determination.

§ 13.1.4.2 Before final payment, furnish Owner with an affidavit stating that all workmen have been paid the prevailing rate of wages specified in the contract.

§ 13.1.4.3 Keep an accurate record showing the name, craft, or trade and actual hourly rate of wages paid to each workman employed by it in connection with any public work. Records shall be preserved for two (2) years from date of payment.

§ 13.1.4.4 Post the prevailing wage rated 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, and at such place or places as are used by them to pay workmen their wages.

§ 13.1.4.5 Submit the Owner, certified payroll records for each payroll period within ten (10) days of the payment of wages. A certified payroll record is defined as "a payroll record that is attested by the employer, or the Owner of the company doing business as the employer, or a corporate officer of such company, or an authorized agent of the employer". A copy of the certified payroll form for submission of the payroll records may be obtained by contacting the Department of Labor, Division of Workplace Standards at 609.292.2259.

§ 13.1.4.6 In the event the Owner finds that any workers employed by the Contractor or Subcontractor, covered by the said contract, have been paid a rate of wages less than the prevailing wage required to be paid by such contract, the Owner may terminate the Contractor's or Subcontractor's right to proceed with the Work, or such part of the

Work as to where there has been a failure to pay required wages, and to prosecute the Work to completion or otherwise, the Contractor and its sureties shall be liable to the Owner for any excess costs occasioned thereby,

§ 13.1.4.7 a current wage rate determination is on file at the offices of the Owner for inspection and Contractor's use.

### § 13.1.5 SAFETY AND HEALTH REGULATIONS (OSHA)

§ 13.1.5.1 The Contractor shall comply with the laws, rules, regulations and codes dealing with occupational safety and health, including, but not limited to, the latest amendments of the following:

§ 13.1.5.2 Williams -- Steiger Occupational Safety and Health Act of 1970, Public Law 91-595

§ 13.1.5.3 Part 1910 -- Occupational Safety and Health Standards Chapter XVII of Title 29, Code of Federal Regulations.

§ 13.1.5.4 Part 126 -- Safety and Health Regulations for Construction, Chapter XVII of Title 29, Code of Federal Regulations.

§ 13.1.5.3 N.J.A.C. 8:59-5.1-5.109 requirements properly label any substances stored in containers) of the Worker and Community Right to Know Act, P.L. 1983, c.315.

### § 13.1.6 ENVIRONMENTAL REGULATIONS

§ 13.1.6.1 The Contractor shall comply with laws, rules, regulations, and codes dealing with the prevention of environmental pollution and the preservation of public natural resources, including but not limited to, the latest amendments of the following:

§ 13.1.6.2 Chapter 251, public Law of 1975 of the State of New Jersey, "soil Erosion and Sediment Control Act."

### § 13.1.7 AFFIRMATION ACTION/EMPLOYMENT LAW

Contractor agrees to comply with the terms of the Mandatory Equal Employment Opportunity Language, a copy of which is annexed to the Contract Documents as Exhibit F and incorporated as if set forth herein.

§ 13.1.7.1 Contractor shall submit a copy of the 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 Owner

§ 13.1.7.2 Contractor shall complete and submit to the Owner an Initial Project Workforce Report, New Jersey Department of Treasury Form AA 201, upon notification of award and no later than the execution of this Agreement. Failure to submit this completed form may result in this Agreement being terminated.

### § 13.2. SUCCESSORS AND ASSIGNS

§ 13.2.1 The Owner and Contractor respectively bind themselves, their partners, successors, assigns and legal representatives to covenants, agreements and obligations contained in the Contract Documents, neither party to the Contract shall assign the Contract as a whole without written consent of the other, unless as may be provided for elsewhere in the Contract Documents. If either party attempts to make such an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.

### § 13.3 WRITTEN NOTICE

Written notice shall be deemed to have been duly served if delivered in person to the individual, to a member of the firm or entity, or to an officer of the corporation for which it was intended; or if delivered at, or sent by registered or certified mail or by courier service providing proof of delivery to, the last business address known to the party giving notice.

### § 13.4 RIGHTS AND REMEDIES

§ 13.4.1 Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights and remedies otherwise imposed or available by law.

§ 13.4.2 No action or failure to act by the Owner, Engineer, or his designee or Contractor shall constitute a waiver of a right or duty afforded them under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach there under, except as may be specifically agreed in writing.

### § 13.5 TESTS AND INSPECTIONS

§ 13.5.1 Tests, inspections and approvals of portions of the Work shall be made as required by the Contract Documents and by applicable laws, statutes, ordinances, codes, rules and regulations or lawful orders of public authorities. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections and approvals. The Contractor shall give the Engineer, or his designee timely notice of when and where tests and inspections are to be made so that the Engineer, or his designee may be present for such procedures. The Owner shall bear costs of (1) tests, inspections or approvals that do not become requirements until after bids are received or negotiations concluded, and (2) tests, inspections or approvals where building codes or applicable laws or regulations prohibit the Owner from delegating their cost to the Contractor.

§ 13.5.2 If the Engineer, or his designee, Owner or public authorities having jurisdiction determine that portions of the Work require additional testing, inspection or approval not included under Section 13.5.1, the Engineer, or his designee will, upon written authorization from the Owner, instruct the Contractor to make arrangements for such additional testing, inspection or approval by an entity acceptable to the Owner, and the Contractor shall give timely notice to the Engineer, or his designee of when and where tests and inspections are to be made so that the Engineer, or his designee may be present for such procedures. Such costs, except as provided in Section 13.5.3, shall be at the Owner's expense.

§ 13.5.3 If such procedures for testing, inspection or approval under Sections 13.5.1 and 13.5.2 reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, all costs made necessary by such failure including those of repeated procedures and compensation for the Engineer, or his designee's services and expenses shall be at the Contractor's expense.

§ 13.5.4 Required certificates of testing, inspection or approval shall, unless otherwise required by the Contract Documents, be secured by the Contractor and promptly delivered to the Engineer, or his designee.

§ 13.5.5 If the Engineer, or his designee is to observe tests, inspections or approvals required by the Contract Documents, the Engineer, or his designee will do so promptly and, where practicable, at the normal place of testing.

§ 13.5.6 Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.

### § 13.6 INTEREST

Except as required by Section 5.1.3 of the Owner Contractor Agreement and notwithstanding anything to the contrary contained in the Contract Documents and related documents, the Owner will pay no interest whatsoever for any payments due.

### § 13.7 TIME LIMITS ON CLAIMS

Intentionally deleted.

## ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

### § 14.1 TERMINATION BY THE CONTRACTOR

§ 14.1.1 The Contractor may terminate the Contract if the Work is stopped for a period of 30 consecutive days through no act or fault of the Contractor or a Subcontractor, Sub-subcontractor or their agents or employees or any other persons or entities performing portions of the Work under direct or indirect contract with the Contractor, for any of the following reasons:

- .1 Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be stopped;
- .2 An act of government, such as a declaration of national emergency that requires all Work to be stopped;

§ 14.1.2 Intentionally deleted

§ 14.1.3 If one of the reasons described in Section 14.1.1 exists, the Contractor may, upon thirty (30) days' written notice to the Owner and Engineer, or his designee, terminate the Contract

§ 14.1.4 Intentionally deleted.

#### § 14.2 TERMINATION BY THE OWNER FOR CAUSE

§ 14.2.1 The Owner may terminate the Contract if the Contractor after Notice and an opportunity to cure,

- .1 refuses or fails to supply enough properly skilled workers or proper materials;
- .2 fails to make payment to Subcontractors for materials or labor in accordance with the respective agreements between the Contractor and the Subcontractors;
- .3 disregards laws, ordinances, rules or regulations, or orders of a public authority having jurisdiction;
- .4 fails to furnish the Owner with assurances satisfactory to the Owner, evidencing the Contractor's ability to complete the Work in compliance with all requirements of the Contract Documents;
- .5 fails after commencement of the Work, to proceed continuously with the construction and completion of the Work, for more than three (3) days, except as permitted by the Contract Documents;
- .6 disregards orders of the Owner or Engineer, or his designee;
- .7 fails to maintain the Site in a clean, safe and orderly manner;
- .8 fails to comply with a Construction Change Directive; or
- .9 otherwise is guilty of any breach of a provision of the Contract Documents.

§ 14.2.2 When any of the above reasons exist, the Owner, upon certification by the Initial Decision Maker that sufficient cause exists to justify such action, may without prejudice to any other rights or remedies of the Owner and after giving the Contractor and the Contractor's surety, if any, seven days' written notice, terminate employment of the Contractor and may, subject to any prior rights of the surety:

- .1 Exclude the Contractor from the site and take possession of all materials, equipment, tools, and construction equipment and machinery thereon owned by the Contractor;
- .2 Accept assignment of subcontracts pursuant to Section 5.4; and
- .3 Finish the Work by whatever reasonable method the Owner may deem expedient. And charge the costs incurred against the Contractor's Contract balance

§ 14.2.3 When the Owner terminates the Contract for one of the reasons stated in Section 14.2.1, the Contractor shall not be entitled to receive further payment until the Work is finished. The Engineer, or his designee's certification issued pursuant to Section 14.2.2 shall be given a presumption of correctness.

§ 14.2.4 If the unpaid balance of the Contract Sum exceeds costs of finishing the Work, including compensation for the Engineer, or his designee's services and expenses made necessary thereby, and other damages incurred by the Owner and not expressly waived, such excess shall be paid to the Contractor. If such costs and damages exceed the unpaid balance, the Contractor shall pay the difference to the Owner. The amount to be paid to the Contractor or Owner, as the case may be, shall be certified by the Engineer, or his designee, upon application, and this obligation for payment shall survive termination of the Contract.

#### § 14.3 SUSPENSION BY THE OWNER FOR CONVENIENCE

§ 14.3.1 The Owner may, without cause, order the Contractor in writing to suspend, delay or interrupt the Work in whole or in part for such period of time as the Owner may determine.

§ 14.3.2 Intentionally deleted.

#### § 14.4 TERMINATION BY THE OWNER FOR CONVENIENCE

§ 14.4.1 The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause.

§ 14.4.2 Upon receipt of written notice from the Owner of such termination for the Owner's convenience, the Contractor shall

- .1 cease operations as directed by the Owner in the notice;



- .2 take actions necessary, or that the Owner may direct, for the protection and preservation of the Work; and
- .3 except for Work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.

§ 14.4.3 In case of such termination for the Owner's convenience, the Contractor shall be entitled to receive payment for Work executed, and costs incurred by reason of such termination, along with reasonable overhead and profit on the Work not executed.

## ARTICLE 15 CLAIMS AND DISPUTES

### § 15.1 CLAIMS

#### § 15.1.1 DEFINITION

A Claim is a demand or assertion by one of the parties seeking adjustment or interpretation of Contract terms, payment of money, extension of time, or other relief with respect to the terms of the Contract. Any Contractor Claim seeking the payment of money shall not include consequential damages, which Contractor hereby waives, and shall be calculated in accordance with Section 7.3.6 and Section 7.3.10 hereof.

#### § 15.1.2 DECISION OF ENGINEER, OR HIS DESIGNEE

Owner and Contractor agree that the Engineer, or his designee shall be the initial arbiter of all Claims, including those alleging error or omission by the Engineer, or his designee. All claims, shall be referred, initially to the Engineer, or his designee for action as provided in Article 4 and shall be required as a condition precedent to litigation of a Claim between the Contractor and Owner to all such matters arising prior to the date final payment is due, regardless of: (1) whether such matters relate to execution and progress of the Work; or (2) the extent to which the work has been completed. The decision by the Engineer, or his designee in response to a Claim shall not be a condition precedent to litigation in the event: (1) the position of the Engineer, or his designee is vacant; (2) the Engineer, or his designee has not received evidence or has failed to render a decision within agreed time limits; (3) the Engineer, or his designee has failed to take action required under Article 4 within thirty (30) days after the Claim is made; (4) forty-five (45) days have passed after the Claim has been referred to the Engineer, or his designee; or, (5) the claim relates to a mechanic's lien.

#### § 15.1.3 TIME LIMITS ON CLAIMS

Claims must be within twenty one (21) calendar days after the occurrence of the event giving rise to the Claim, or within twenty-one (21) calendar days after the claimant first becomes aware of the condition giving rise to the Claim, whichever is later. There shall be no time limitation upon any Claims made by the Owner. Claims must be made by written notice to the Engineer, or his designee. An additional Claim made after the initial Claim has been implemented by Change Order will not be considered unless submitted pursuant to the requirements of this Paragraph. Notice shall be deemed effective upon the Engineer, or his designee's receipt of the Notice.

#### § 15.1.4 CONTINUING CONTRACT PERFORMANCE

Pending final resolution of a Claim, unless otherwise agreed in writing, the Contractor shall proceed diligently with performance of the Contract and the Owner shall continue to make payments to the extent required by the Contract Documents.

#### § 15.1.5 CLAIMS FOR CONCEALED OR UNKNOWN CONDITIONS

If conditions are encountered at the Site which are: (1) subsurface or otherwise concealed physical conditions which differ materially from those indicated in the Contract Documents; or (2) unknown physical conditions of an unusual nature, which differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for the Contract Documents, the Owner and Contractor mutually agree to give written notice to each other, including the Engineer, or his designee and any affected Contractor or subcontractor, upon the observation of the condition within twenty-four (24) hours if first observation of the condition. The Engineer, or his designee will investigate such conditions within seventy-two (72) hours and will diligently process and render a recommendation within twenty-one (21) days unless otherwise agreed in writing. If the Engineer, or his designee determines that the condition at the site are not materially different from those indicated in the Contract Documents and that no change in the terms of the Contract is justified the Engineer, or his designee shall so notify the Owner and Contractor in writing, stating the reasons. Claims by either party in

opposition to such determination must be made within seven (7) days after the Engineer, or his designee has given notice of the decision.

#### § 15.1.6 CLAIMS FOR ADDITIONAL COST

If the Contractor wishes to make a Claim for an increase in the Contract Sum written notice as provided herein shall be given before proceeding to execute the Work. All documentation in support of the Contractor's request shall, likewise be provided at the time said written request is made. Prior notice is not required for Claims relating to an emergency endangering life or property arising under Section 10.3 or elsewhere in the Contract Documents.

#### § 15.2 CLAIMS FOR ADDITIONAL TIME

§ 15.2.1 If the Contractor wishes to make a Claim for an increase in the Contract Time, written notice as provided herein shall be given. The Contractor's Claim shall include an estimate of cost and of probable effect of delay on progress of the Work, all documentation in support of the Contractor's request shall, likewise be provided at the time said written request is made. In the case of a continuing delay, only one Claim is necessary.

§ 15.2.2 If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating that weather conditions were abnormal for the period of time, could not have been reasonably anticipated and had an adverse effect on the scheduled construction. The term "abnormal" as used here shall be construed according to the following formula: average rainfall (or snow, low temperature, etc) for the past five (5) years for the month in question, plus ten percent (10%). Accordingly, weather is not deemed to be abnormal unless it is ten percent (10%) worse than the average for the month over the past five (5) years. Claims relating to weather must be submitted within seven (7) calendar days of the occurrence of any such delays.

§ 15.3 CLAIMS FOR INJURY OR DAMAGE TO PERSON OR PROPERTY. If either Party to the Contract suffers injury or damage to person or property because of an act or omission of the other party, of any of the other party's employees or agents, or of others for whose acts such party is legally liable, written notice of such injury or damage, whether or not insured, shall be given to the other party, including the Engineer, or his designee, within a reasonable time not exceeding twenty-one (21) days after first occurrence, unless another time period is required by law. The notice shall provide sufficient detail to enable the other party to investigate the matter. If a Claim for additional cost or time related to this Claim is to be asserted, it shall be filed as provided for in Article 15.

§ 15.3.2 The Owner is not required to institute a claim under this section in order to terminate this Agreement.

#### § 15.4 RESOLUTION OF CLAIMS AND DISPUTES

The Engineer, or his designee will review Claims and take one or more of the following preliminary actions within ten (10) days of receipt of a Claim: (1) request additional supporting data from the claimant; (2) reject the Claim in whole or in part, stating reasons for rejection; (3) recommend approval of the Claim by other party; or (4) suggest a compromise.

§ 15.4.2 If a Claim has been resolved, the Engineer, or his designee will prepare or obtain appropriate documentation in consultation with Owner's counsel as circumstances dictate.

§ 15.4.3 If a Claim has not been resolved after consideration of the foregoing and of further evidence presented by the parties or requested by the Engineer, or his designee, the Engineer, or his designee will notify the parties in writing that the Engineer, or his designee's decision will be made within seven (7) days, which decision shall be final. Upon expiration of such time period, the Engineer, or his designee will render to the parties the Engineer, or his designee's written decision relative to the Claim, including any change in the Contract Sum or Contract Time or both.

#### § 15.5. CLAIMS FORUM

Unless otherwise required by Section 5.1.3 of the Standard Form of Agreement between the Owner and Contractor, claims, disputes, or other matters in question between the parties to this Contract arising out of or relating to the Project or to this Contract, or the alleges breach thereof, shall be subject in the first instance to mediation and failing that, there in, a Court of competent jurisdiction venued in Union County, New Jersey. The Owner may not be compelled to submit any dispute concerning the Project to arbitration. By accepting award of the Contract and executing the Agreement, the Contractor consents to its joinder as a party in any litigation, mediation, arbitration or any other legal proceeding involving the Project and any references in the Contract documents.

§ 16.1 INTERPRETATIONS IN WRITING

§ 16.1.1 Neither the price bid for the work of any Contract, nor the Contract Sum, shall be based in any manner upon oral opinions, or real or alleged instructions of an oral nature, regardless if whether such opinions or instructions are expressed by the Owner, the Engineer, or his designee or its Consultants, the Contractor, or agents or representative of any of them and no such oral communication shall form the basis of a Claim.

§ 16.1.2 These provisions do not intend to deny, on an oral basis, normal discussion, recommendations, explanations, suggestions, approvals, rejections, and similar activity in pursuit of the work of the Project, such as at job conferences and otherwise at the Site. In such instances, the written minutes, correspondence, shop drawing records, written field orders, and other written data shall govern over personal claims regarding statements made contrary to the written data.

§ 17.1 JOB SITE MEETINGS

§ 17.1.1 Job site meetings, when called by the Engineer, or his designee, shall be held at a location and time convenient to the Owner's representatives, the Engineer, or his designee, and Contractor(s). Each Contractor shall attend such meeting, or be represented by a person in authority who is thoroughly familiar with the Project and who can speak and make decisions for the Contractor. In the instance of a Single Overall Contract, each of the major Subcontractors-Structural Steel, and ornamental iron work, plumbing, gas fitting and all kindred work and steam power plants, steam, and hot water heating and ventilating apparatus and Electrical shall have a person in authority who is thoroughly familiar with the Project attend the meetings.

§ 18.1 MANDATORY LAW AGAINST DISCRIMINATION LANGUAGE  
PROCUREMENT, PROFESSIONAL AND SERVICE CONTRACTS  
(N.J.A.C. 13:6-1.3)

§ 18.1.1 The parties of this contract do hereby agree that the provision of N.J.S.A. 10:2-1 through N.J.S.A. 10:2-4 dealing with discrimination in employment on public contracts, and the rules and regulations promulgated pursuant thereto, are hereby made a part of this contract and are binding upon them.

§ 18.1.1 Pursuant to the provision of N.J.S.A. 10:2-1 through N.J.S.A. 10:2-4, during the performance of this contract, the Contractor agrees as follows:

§ 18.2.1.1 In the hiring of persons for the performance of work under this contract or any subcontract hereunder, or for the procurement, manufacture, assembling or furnishing of any such materials, equipment, supplies or services to be acquired under this contract, no Contractor, including without limitation, the Contractor, nor any person acting on behalf of such Contractor or subcontractor, shall by reason of race, creed, color national origin, ancestry, Marital status, gender identity or expression, affectional or sexual orientation, or sex, discriminate against any person who is qualified and available to perform the Work, to which the employment relates;

§ 18.2.1.2 No Contractor, including, without limitation, the Contractor, Subcontractor, nor any person acting on its behalf shall, in any manner, discriminate against or intimidate any employee engaged in the performance of work under this Contract or any subcontract hereunder, or engaged in the procurement, manufacture, assembling or furnishing of any such materials, equipment, supplies or services to be acquired under such Contract, on account of race, creed, color, national origin, ancestry, marital status, gender identity or expression, affectional or sexual orientation, or sex;

§ 18.2.1.3 There may be deducted from the amount payable to the Contractor by the Owner, under the Contract, a penalty of \$50.00 (fifty dollars) for each person for each calendar day during which such person is discriminated against or intimidated in violation of the provisions of the Contract; and

§ 18.2.1.4 This contract may be canceled or terminated by the Owner, and all the money due or to become due hereunder may be forfeited, for any violation of this section of the Contract occurring after notice to the Contractor from the contracting public agency or any prior violation of this section of the Contract.

§ 19.1 CONTRACTOR AND SUBCONTRACTOR COLLECTION OF USE TAX TO LOCAL GOVERNMENTS

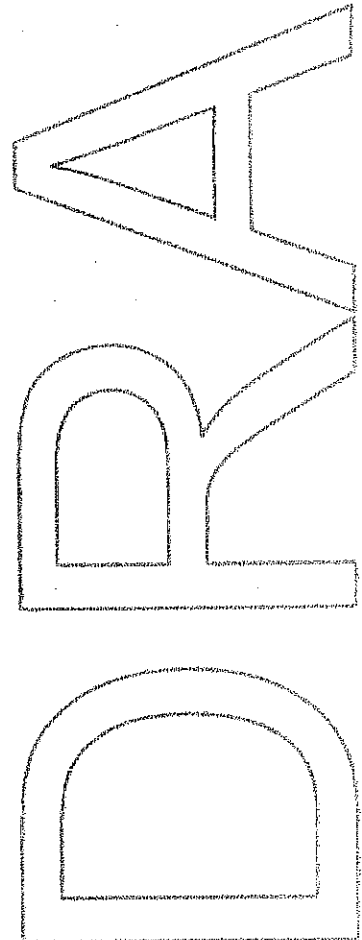
§ 19.1.1 The Contractor acknowledges and agrees that pursuant to P.L. 2004, c. 57, enacted by the State of New Jersey on June 29, 2004, contractors or contractors with subcontractors, or their affiliates, who enter into contracts

with New Jersey local government entities, including without limitation, boards of education, are, effective as of September 1, 2004, required to collect and remit to the New Jersey Director of Taxation in the Department of the Treasury the use tax pursuant to the "sales and Use Tax Act," P.L. 1966, c. 30 (C.54:32B-1 et. seq.) on all their sales of tangible personal property delivered into the State of New Jersey (hereinafter referred to as the "Contractor Use Tax Collection Legislation").

§ 19.2.1 The Contractor hereby covenants and agrees that the Contractor, any subcontractor and each of their affiliates, shall collect and remit to the New Jersey Director of the Division of Taxation in the Department of Treasury, the use tax due pursuant to the "Sales and Use Tax Act," P.L. 1966, c. 30 (C.54:32B-1 et. seq.) on all their sales of tangible personal property delivered into the State of New Jersey. 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.

§ 19.3.1 The parties intend that this Article 19 shall comply with the rules and regulations promulgated pursuant to the Contractor Use Tax Collection Legislation and shall be interpreted consistent therewith.

§ 19.4 Notwithstanding anything contained in the Agreement to the contrary, the Contractor hereby agrees to indemnify and hold the Owner harmless from and against any and all fines, taxes, penalties, interest, claims, losses. Costs, expenses, liabilities, or damages arising out of or in connection with the Contractor's failure to comply with the terms and condition of Sections 19.1 and 19.2 to the fullest extent permitted by law and public policy.



# **TECHNICAL SPECIFICATIONS**

## TECHNICAL SPECIFICATIONS

### CONDITIONS SPECIFIC TO THIS PROJECT

*The 2015 County Aid Resurfacing Project* consists of the milling, resurfacing and or overlaying and striping of various Union County roads in Cranford, Elizabeth, Fanwood, Kenilworth, Linden, Rahway, Roselle, Scotch Plains, Springfield, Summit and Westfield. The work shall include milling of the roadways listed below to an average depth of 2 inches and resurfacing with Superpave Hot Mix Asphalt 9.5M64 Surface Course (herein referred to as HMA) to the same depth. The 9.5M64 mix will also be used as a leveling course where necessary. Pavement Repair at various locations prior to resurfacing may be required, as directed by the Engineer & as further detailed in the contract bid documents. The project also includes the replacement and installation of accessible curb ramps at numerous locations. Locations of curb ramp replacement are identified on the plans which may be adjusted in the field prior to construction. Existing loop detector cables interfering or impacted by milling operations will be replaced in-kind in accordance with As-Built plans provided by the County or as directed by the Engineer, or at the discretion of County be replaced with video detection as "If & Where Directed". Signalized intersections converted from loop detection to video detection will require inspection by a qualified technician retained by the Contractor of the traffic signal controller to confirm conversion to video detection is possible without complete replacement of the existing traffic signal controller and its equipment. Separate payment will not be made for the above mentioned inspections and evaluation, and shall be included in the various bid pay items of work.

Existing structures within the project limit may require deck repairs and installation of a waterproof membrane as noted on the plans. Certain bridges with concrete decks were previously overlaid with a protective coating which has delaminated and requires removal. In addition, these decks require construction of a new saw cut grooved surface. Existing bridges with HMA overlays will require the installation of a new waterproof membrane atop the concealed deck surface. It is the intent of this project to mill the existing HMA material atop the concrete deck, install the waterproof membrane and then resurface with new HMA material as notes on the plans. Upon exposing of the concrete deck, it will be inspected by the Engineer, and if necessary, Deck Repairs maybe required at the direction of the Engineer. This will be paid for under the Deck Repair pay item as "If & Where Directed."

In compliance with new Stormwater Management Regulations, Type B, D and E Inlet curb pieces may require replacement. Additionally, all stream flow & concave grates, and grates having square openings, shall be replaced with bicycle type grates. Upon completion of the resurfacing operations, traffic markings and numerous street signs will be installed. It is the intent of this project to replace existing striping in-kind; however modifications to the existing striping and cross walks maybe required to accommodate relocated curb ramp at the numerous intersections. Revisions to existing cross walks and intersection striping will be as directed by the Engineer and installed in accordance with Construction Details.

Installation of curb ramps and striping shall be in accordance with the latest edition of the "Manual on Uniform Traffic Control Devices" and PROWAG (ADA) Guidelines, and approved by the Engineer prior to installation. Ground mounted street name signs will be installed at all street corners intersecting with the county roads in question. Detectable Warning Surface delineation will be installed on all new constructed handicap ramps.

Prior to construction, the Contractor will perform a walk through with the Engineer to confirm and verify project pavement limits, and location of miscellaneous pavement and curb repairs, ADA ramps, striping and other proposed improvements. Roadway, curb and drainage repair areas including the resetting of

castings shall be performed prior to the placement of final HMA overlay. Milled areas adjacent to manholes and inlets within the roadway travel way shall provide a ramped HMA treatment to the satisfaction of the Engineer to improve ride-ability to motorist to the greatest extent practical. Milled areas shall not remain exposed for more than 48 hours unless approved by the Engineer.

*Note that all roads in question shall be closed to traffic throughout the milling and resurfacing operations, unless otherwise directed by the Engineer. All milling and resurfacing operations and other activities that require closure of travel through lanes will be performed during night-time operations within the stipulated working hours with the exception of the following roadway segments which shall be performed during the stipulated day time hours:*

- *LaGrande Avenue/Laurel Place, Fanwood*

*Road closures for County roadways will be allowed between 9 PM and 6AM. Road closures limitations for any NJDOT roadways will be conditional upon any applicable NJDOT permit restrictions.*

*Work that does not impact the travel way such as curb and sidewalk repairs etc. shall be performed during day time hours unless directed by the Engineer.*

*Work within any portion of NJDOT Right-Of-Way (R.O.W.) including off-ramps closures, will be permitted between 9 AM and 3 PM, Monday through Friday. Additionally, any lane closures (within the NJDOT R.O.W.) resulting from adjacent work, and or maneuvering space for construction equipment, shall be restricted to the above mentioned times. For night-time closures of NJDOT roadways, NJDOT restricts the hours of operation between 10 PM and 6 AM. The Contractor is made aware of the different time restrictions for County and NJDOT roadways. The Contractor shall review any applicable NJDOT permits for further restrictions. These times indicate the road closure & opening times, respectively. Therefore, the Contractor shall have all equipment & materials out of the NJDOT R.O.W., and terminate all construction operations at the appropriate time (with adequate time for cleanup, material cooling, drying, set up, etc.), in order for the roads to be opened to traffic by the specified time. The County of Union will secure all NJDOT permits, where necessary, prior to construction. Other items to be installed including handicap ramps, street name signs, pavement reflectors, loop detectors and curb ramp delineation, shall be performed while traffic is maintained.*

*Note a closed road shall be open to traffic prior to initiating work requiring full closure on another road that is part of its detour route.*

*No construction equipment & material shall be stored within the County R.O.W. Resurfacing operations shall be terminated at the appropriate time (with adequate time for cleanup, material cooling, drying, set up, etc.), in order for the roads to be opened to traffic by the conclusion of the stipulated working hours. No work will be permitted on Saturdays, Sundays or Union County observed holidays.*

Approximately 11.64 miles of County roads will be improved under this Program as follows:

- South Avenue from Centennial Avenue to Roselle Borough boundary in Cranford, 0.84 mile
- South Broad Street from Bayway to Rahway Avenue in Elizabeth, 1.01 miles
- LaGrande Avenue / Laurel Place from Terrill Road to South Avenue in Fanwood, 1.02 miles
- Galloping Hill Road from the northbound Garden State Parkway ramps to Kimberly Road in Kenilworth, 0.34 mile
- Raritan Road from Centennial Avenue to Wood Avenue in Linden, 0.86 mile



- Scott Avenue from NJ Route 27 to US Routes 1&9 in Rahway, 1.38 miles
- Amsterdam Avenue from Wood Avenue to West First Avenue in Roselle, 0.62 mile
- West Third Avenue from Amsterdam Avenue to Chestnut Street in Roselle, 0.76 mile
- Front Street from Terrill Road to Park Avenue in Scotch Plains, 0.68 mile
- Hillside Avenue from South Springfield Avenue to US Route 22 in Springfield, 0.29 mile
- Mountain Avenue from Caldwell Place to Morris Avenue in Springfield, 0.34 mile
- Morris Avenue from Springfield Avenue to NJ Route 124 in Summit, 2.32 miles
- East Broad Street from South Chestnut Street to Springfield Avenue in Westfield, 1.18 miles

A map showing the areas and extent of work are found on the cover sheet of the plan set.

Deviations from the standard curb-to-curb milling & resurfacing will be identified in field by the Engineer prior to construction.

The item described as: Dense Graded Aggregate Base Course, Variable thickness, shall be used on unpaved shoulder areas adjacent to the edge of pavement where drop-offs greater than 1.5 inches exist or will be created. Specific locations will be field verified by the Engineer prior to construction.

ADA curb ramps shall be constructed prior to commencement of the milling and resurfacing operations. All curb ramps shall be constructed in accordance with the details shown herein. **Adjacent roads damaged during the construction of curb and or sidewalk shall be restored to the satisfaction of the Engineer, and in accordance with these Specifications, at no cost to the County of Union. The construction detail entitled "10 x 20 Concrete Vertical Curb" identifies the restoration requirement in the event that the road is damaged. All materials: including saw cut, excavation of materials, DGA & HMA base courses, labor & costs associated with this restoration shall be the sole responsibility of the Contractor.** The installation of "Detectable Warning Surface" shall be installed at all newly constructed ramps.

Resetting inlets and manholes to finished grade elevations is part of this contract. Castings, grates, curb & back-plates and covers that are broken shall be replaced as part of this Contract at direction of the Engineer as shown on the plans or If & Where Directed. In the areas where existing curb type inlets are absent of adjacent curbing, new concrete curbing will be installed on either side of said inlet.

*All striping and pavement markings shall be replaced prior to the road being opened to traffic. Should this not be possible due to material and or manufacturer's specifications, temporary striping shall be installed in the interim, prior to the road being opened to traffic. Additionally, any and all pre-marking for permanent markings shall be completed prior to the close of each resurfacing operation day & prior to the road being opened to traffic. Permanent striping & markings shall then be installed within 24 hours of the roadway being resurfaced (and or originally opened to traffic). Temporary striping shall also be applied to all milled surfaces prior to the road being open to traffic. Separate payment will not be made for any temporary striping/markings. The costs thereof shall be included in the various pay items of the overall contract bid.*

At the preconstruction meeting, the County shall provide the Contractor with the appropriate electrical and striping plans for the various signalized intersections within the project limits. *In the event that the County does not have available striping plans for these areas, it will be the Contractor's responsibility to perform any & all field inventory, to confirm locations prior to milling operations.* The Contractor will be responsible for **notifying Ralph Lewis, Assistant Regional Electrical Supervisor, NJDOT Region North** for all State Signalized Intersections. He can be reached at 973-648-2781.

Prior to the start of work, the Contractor shall go over the limits of all work with the Engineer or duly appointed representative.



Detours, work zone traffic control and all Maintenance and Protection of Traffic for full road closures will be planned, implemented and maintained by the County of Union. However, the Contractor shall be responsible for the Maintenance & Protection of Traffic for any construction operation performed at any time other than when the road is fully closed to traffic. These operations include the construction of curb & sidewalk; restoration associated with the various pay items; striping & pavement markings; the various raised pavement markings. Any loop detector operations not performed during the various operations where the road in question is fully closed, will also require the Contractor to perform any associated maintenance & protection of traffic. The County will perform construction inspection and materials testing.

*The time of completion for this project has been set at 180 calendar days of the Notice to Proceed.*

In addition to the standard operations: milling, resurfacing, striping & markings, raised pavement markings & street name signage, for each road, other items (miscellaneous work may also be warranted and will be described elsewhere in these specifications) are detailed on the various Construction Detail Sheets found in the Contract Plans. These items include: Curb Ramps, Loop Detectors, Miscellaneous Inlet & Manhole Information, Sidewalk, Deck Repairs and installation of Water Proof Membranes and Detectable Warning Surface locations.

*Due to the size of this Program, 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 delete or substitute roads to be milled and paved under this contract. The County also 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.*

*Utility companies shall reset their valves, meters and manholes prior to construction. The Contractor shall make all necessary arrangements with the respective utility companies, to confirm that the appropriate number of each type of valve sleeves, covers, etc., are on-site. All work concerning these resets shall be in accordance with Sections: 105 & 650 as amended herein; except that this item will not be measured, and any/all payment associated with it shall be made part of the overall price bid for the project. No separate payment will be made for the resetting of utility valve boxes.*

***UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE PERMITTED TO COMMENCE WITH THE RESURFACING OPERATIONS, UNTIL ALL UTILITY VALVES HAVE BEEN RESET.***

All roads under this contract requiring milling will be milled to a depth of two (2) inches. "To Be Constructed Boxes" on the Contract Plans identify the estimated amount of material for each road. In cases where the road must be re-profiled, the locations will be pointed out to the Contractor, who shall make the necessary adjustments to the milling machine to obtain said changes.

*The Contractor's attention should be directed to the existing above & below ground structures, including signalized intersections (note: The Contractor shall be responsible for his/her own recognizance and site visits) and this list shall not be considered comprehensive. Additional structures*

*other than those listed below located during the construction shall be corrected as directed by the Engineer as If & Where Directed:*

- South Avenue in Cranford - traffic signal at Centennial Avenue
- South Broad Street in Elizabeth - traffic signals at Bayway, Fire Engine Company No. 2, Summer Street, US Routes 1&9, Grove Street, South Street, Pearl Street, Fire Engine Company No. 1 and Rahway Avenue; bridge between Pearl Street and Rahway Avenue
- LaGrande Avenue/Laurel Place in Fanwood – traffic signals at Terrill Road and Martine Avenue
- Galloping Hill Road in Kenilworth - traffic signals at the northbound Garden State Parkway ramps and Washington Avenue
- Raritan Road in Linden - traffic signals at Centennial Avenue, Dewitt Terrace, Moen Avenue and Wood Avenue
- Scott Avenue in Rahway - traffic signals at NJ Route 27, Whittier Street, Elizabeth Avenue and Lawrence Street
- Amsterdam Avenue in Roselle - traffic signal at West First Avenue
- West Third Avenue in Roselle - traffic signals at Locust Street and Chestnut Street
- Front Street in Scotch Plains - traffic signals at Terrill Road and Park Avenue
- Hillside Avenue in Springfield - traffic signal at South Springfield Avenue
- Mountain Avenue in Springfield - traffic signal at Morris Avenue, bridge between Trivett Avenue and Caldwell Place
- Morris Avenue in Summit - traffic signals at Springfield Avenue, Locust Drive / Broad Street, Prospect Street, Maple Street, Summit Avenue, Oak Ridge Avenue, Glenside Avenue, Ashwood Avenue, Orchard Avenue to NJ Route 124
- East Broad Street in Westfield - traffic signal at Springfield Avenue

Other structures including storm & sanitary sewers, and other utilities may exist and will be the sole responsibility of the Contractor to investigate & use due care when operating in their vicinity. Any loops damaged during the milling and or paving operations, shall be replaced if & where directed.

## 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 [http://lwd.dol.state.nj.us/labor/wagehour/wagehour\\_index.html](http://lwd.dol.state.nj.us/labor/wagehour/wagehour_index.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 [http://lwd.dol.state.nj.us/labor/wagehour/wagehour\\_index.html](http://lwd.dol.state.nj.us/labor/wagehour/wagehour_index.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.

The following additional project specific Attachments are located at the end of these Special Provisions:

## GENERAL

All awards shall be made subject to the approval of the New Jersey Department of Transportation. No construction shall start before approval of said award by the New Jersey Department of Transportation. Prior to the start of construction the contractor must submit a Material Questionnaire (SA-11) listing all sources of materials. Any materials used on the project from a non-approved New Jersey Department of Transportation source will be considered non-participating. The contractor is also notified that the District Office, Division of Local Aid and Economic Development must be notified of the construction commencement date at least five (5) calendar days prior to the start of construction.

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 that 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 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 that 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 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 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 that 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
Precast Pre-stressed Concrete Beams and Piles Fabrication	Pre-cast Concrete Arch Structures
Reinforced Elastomeric Bearings	Pre-cast Concrete Box Culverts

Sign Legends  
Sign Support Structures  
Structural Steel Fabrication

Prefabricated Modular Walls  
Stay-In-Place Forms  
Temporary Sheeting and Cofferdams  
Temporary Shielding  
Temporary Structures  
Value Engineering Plans

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THE FIRST PARAGRAPH UNDER PART I OF TENTH PARAGRAPH IS CHANGED TO:

- 1. Certified Working Drawings.** For working drawings requiring certification, include 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 that 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 preconstruction 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 that 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 that 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.**

#### **105.07.01 Working in the Vicinity of Utilities**

##### **C. Protection of Utilities.**

THE FOURTH PARAGRAPH IS CHANGED TO:

Access within railroad right-of-way is restricted. Before beginning work within the railroad ROW or on railroad facilities, obtain the railroad's written approval for access, the method of construction, and the schedule of the work. Provide a copy of the submittal and approval to the RE. Comply with the railroad's requirements for working within the railroad right-of-way.

THE FOLLOWING IS ADDED TO THE SIXTH PARAGRAPH

Ensure that the work is performed following the railroad's access and safety restrictions.

## 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 that 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 3 copies of the manufacturer's Certifications of Compliance for materials, components, and manufactured items that are accepted by certification. Retain 1 copy and submit 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. **Precast Concrete Steel and Concrete Pipe Certification of Compliance.** For precast 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 precast plant. If the precast concrete item is not inspected by ME, submit a Certification of Compliance for the precast concrete item as required in 106.07.01. When a Certification of Compliance is submitted, ensure that the Certification of Compliance contains a statement that the reinforcing steel used in the precast 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 that 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 that 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 1 copy and submit 2 copies to the RE. The Contractor may submit the DC-17 and the step certifications electronically in a scanned document.

Ensure that 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 eye witnesses; 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 & or disposal of all equipment, material & manpower necessary for compliance with this sub-section.

#### 2. Visibility Requirements for Workers and Equipment.

THE FIRST PARAGRAPH IS CHANGED TO:

Ensure that 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 am to 4 pm

Night-Time 9 pm to 6 am

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 that industrial & commercial driveway access must be temporarily denied, as in the scenario where the milling and paving operations will restrict passage, the Contractor shall provide written notice to the Engineer and property owner at least five (5) working days in advance of the driveway closing.*

When vehicular traffic is to be maintained within the scope of the Project, the County shall plan and implement the work to provide for the safe and convenient passage of such traffic. The Contractor shall cooperate in every way with County forces to ensure the safe and proper passage of said traffic.

***HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING & MAINTAINING ALL WORK ZONES FOR THE CONSTRUCTION OF HANDICAP RAMPS, MISCELLANEOUS CONCRETE SIDEWALK & CURB, VARIOUS STRIPING & PAVEMENT MARKINGS, AND REMOVAL & INSTALLATION OF RAISED PAVEMENT MARKINGS. ALL TRAFFIC CONTROL DEVICES & MANPOWER NECESSARY TO MAINTAIN SUCH WORK ZONES IN ACCORDANCE WITH THE 2003 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES SHALL BE SUPPLIED, IMPLEMENTED AND REMOVED AT THE APPROPRIATE TIME BY THE CONTRACTOR.***

**108.07.02 Changes to the Traffic Control Plan (TCP)**

THIS ENTIRE SUB-SECTION IS CHANGED TO READ AS FOLLOWS:

The County shall be responsible for establishing and maintaining the proposed detour routes, and work zones (not including work zones for the construction of miscellaneous concrete work, manhole and inlet work, striping, & raised pavement markings), as well as the work area(s) itself, insofar as it relates to maintenance and protection of traffic operations. The Contractor shall provide Union County with a minimum of 48 hour notice of proposed roadway closures for milling and resurfacing operations.

Neither the Contractor nor his forces shall alter the detour route and associated traffic control devices place by the County in any way, unless otherwise directed by the Engineer. In this event, such alterations shall take place only in the presence of the Engineer, or duly appointed representative. *The Contractor shall notify the Engineer at least five (5) business days in advance of each proposed alteration.*

The Contractor shall receive a copy of the detour and traffic control plans proposed by the County. However, under no circumstances shall the Contractor implement any changes without prior approval from the Engineer. Standard NJDOT traffic control plans are included in the bid plans.

The Traffic Control Plan is based on the requirements provided in the latest addition of the Manual On Uniform Traffic Control Devices (M.U.T.C.D.). The Contractor shall work in accordance with the provisions of the traffic control or detour plan and shall only deviate from the plan as directed by the Engineer.

Additional traffic control plans may be added by the Engineer that better suits the type and nature of the work being performed. In this case, the Contractor shall follow the revised or new plan accordingly. The revised plan(s) shall be implemented as part of this item without additional compensation.

**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 snow plows 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 & other material on the road, prior to milling 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.

For delays caused by Railroads, delays up to 30 percent of the estimated availability specified in 105.07 are considered non-excusable.

**2. Excusable, Non-Compensable Delays.**

**b. Utilities.**

THE FOLLOWING IS ADDED:

For delays caused by Railroads, when the availability to access is reduced by more than 30 percent greater than the estimated availability specified in 105.07.

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 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 that policies are underwritten by companies with a current A.M. Best rating of A- with a Financial Size Category of VII or better.

**152.03.02 Railroad Protective Liability Insurance**

THE FOLLOWING IS ADDED TO THE FIRST PARAGRAPH:

Ensure the policy is endorsed to include per project aggregate.

Procure and maintain insurance coverage for the following railroad(s):

- National Railroad Passenger Corporation (AMTRAK)
- Consolidated Rail Corporation (CONRAIL)
- New Jersey Transit Rail Operations
- New York Susquehanna & Western Railway Corporation (NYS&W)

It is estimated that less than 1% percent of the Project cost is located within or adjacent to the railroad right-of-way.

All insurance costs shall be at the Contractor's expense. Separate payment will not be made for these 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 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 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 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 that 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 cost thereof shall be included within the various bid pay items.

**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.***

When vehicular traffic is to be maintained within the scope of the Project, the County shall plan and implement the work to provide for the safe and convenient passage of such traffic. The Contractor shall cooperate in every way with County forces to ensure the safe and proper passage of said traffic.

***THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING & MAINTAINING ALL WORK ZONES FOR THE CONSTRUCTION OF HANDICAP RAMPS, MISCELLANEOUS CONCRETE SIDEWALK & CURB, MANHOLE AND INLET WORK, VARIOUS STRIPING & PAVEMENT MARKINGS, AND REMOVAL & INSTALLATION OF RAISED PAVEMENT MARKINGS. 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.***

Contractor shall be responsible for notifying all property owners fronting his work area for curb, sidewalk and other miscellaneous work not associated with lane closure work for milling and resurfacing operation in which case the County will notify residence. Contractor shall notify property owners a minimum of seven (7) days in advance of the proposed work. A sample project notice shall be provided to the Engineer for review and approval prior to mailing.

**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 – 3<sup>rd</sup> 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. *It should be noted that at the conclusion of the workday, any detour routes will be discontinued and the area under construction reopened to traffic until the start of the following workday. Therefore, the Contractor shall ensure that all of his equipment and materials are removed from the roadway, the road clear of debris and all raised manholes, inlets and other appurtenances have traffic control devices (i.e., drums) placed over them. In this case the County may supply the traffic control devices to the Contractor and it shall be the Contractor's responsibility to place such where necessary.*

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:

- Provide that 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 that 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](http://www.fhwa.dot.gov/safety/fourthlevel/pro_res_road_nchrp350.htm)

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.

THE FOLLOWING SUBSECTION IS ADDED

**8. Portable Construction Light Tower**

The Contractor shall at the request of the RE provide Portable Construction Light Towers to assist Union County in establishing night time traffic control measures or for other purposes. The light towers shall provide sufficient illumination to meet night time operations per Section 108.06. Portable tower shall provide a vehicular hitch for quick transport and removal. Contractor shall consult with Union County regarding hitch requirements for traffic control vehicles owned by the County.

**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 that 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 the item Traffic Director, Flagger. The Contractor shall be required to produce proof of both payment & hours worked for each officer and flagger, 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 department from the impacted municipalities as to their requirements or compliance with State Law for police presence during working hours based on the proposed work activities. Contractor shall be responsible for scheduling all work and notifications with the local police to comply with local ordinance or police presences when work zones are required. 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 FOLLOWING SUBSECTION IS DELETED IN ITS ENTIRETY AND CHANGED TO THE FOLLOWING:

<i>Item</i>	<i>Pay Unit</i>
PORTABLE VARIABLE MESSAGE SIGN	UNIT
TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION	UNIT
TRAFFIC DIRECTOR, FLAGGER	HOUR
TRAFFIC CONTROL MEASURES	LUMP SUM
FLOODLIGHTS FOR NIGHTTIME OPERATIONS	UNIT
TRAFFIC DIRECTOR, UNIFORM POLICE	DOLLAR (ALLOTMENT)

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 various municipalities 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.

The Engineer shall direct the Contractor as to the number of traffic directors required per roadway. Under the circumstances 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 schedules more traffic directors than that which is directed by the Engineer, then, said additional directors will not be reimbursed, and such payments will be the direct responsibility of the Contractor. In addition, if the Contractor cancels any work, without prior notice to the affected Municipal Police Department and the Engineer, then any costs incurred from the respective Police

Departments shall become the Contractor's responsibility. Police traffic director manpower not approved by the Engineer will not be reimbursed and shall become the Contractor's sole responsibility. The Contractor shall be responsible for establishing any and all escrow accounts that may be required by the various municipal Police Departments. The Contractor shall confirm specific details of hiring Traffic Directors with each respective Police Department.

Once the traffic directors are on the job, the County will direct the Contractor as to the dismissal time for such Traffic Directors. There will be no additional cost payment for Traffic Control Coordinator all costs for this work shall be paid in the various bid pay items.

Separate payment will not be made for relocating traffic control devices and the lighting systems used for nighttime operations 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 lighting for nighttime operations, but all costs thereof shall be included in the prices bid for the various Bid Pay Items. Union County has included the bid pay item Floodlights for Nighttime Operations to assist County in setting of Traffic Control devices at night when directed. *Separate payment will not be made for traffic control coordinator but all costs thereof shall be included in the bid pay item "Traffic Control Measures."* Separate payment will not be made for relocating temporary crash cushions as required or as directed. 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 THEN THOSE STIPULATED TO BE PAID UNDER A SEPARATE BID PAY ITEM SHALL BE SUPPLIED, IMPLEMENTED AND REMOVED AT THE APPROPRIATE TIME BY THE CONTRACTOR. THE COST OF SUCH TRAFFIC CONTROL DEVICES, ANY RELOCATION OF SUCH, AND ASSOCIATED MANPOWER WILL BE PAID UNDER THE BID PAY ITEM "TRAFFIC CONTROL MEASURES."***

Separate payment will not be made for traffic control and safety devices for those pay items not specifically identified for payment. All costs shall be included in the Bid Pay Item "Traffic Control Measures". Payment for Traffic Control Measures will be made based on an estimated percent complete of the project subject to approval by the RE.

**SECTION 160 - PRICE ADJUSTMENTS**

**160.03.01 Fuel Price Adjustment**

THROUGHOUT THIS SUBSECTION, TABLE 161.03.01-1 IS CHANGED TO TABLE 160.03.01-1

THE THIRD PARAGRAPH IS CHANGED TO:

If the as-built quantity of an Item listed in Table 160.03.01-1 differs from the sum of the quantities in the monthly Estimates, and the as-built quantity cannot be readily distributed among the months that the Item listed in Table 160.03.01-1 was constructed, then the Department will determine fuel price adjustment by distributing the difference in the same proportion as the Item's monthly Estimate quantity is to the total of the Item's monthly estimates.

THE 25 TH LINE IN THE TABLE 160.03.01-1 IS CHANGED TO:

HOT MIX ASPHALT \_\_\_\_\_ BASE COURSE                      2.50 Gallons per Ton

**160.03.02 Asphalt Price Adjustment**

NOTE 1 OF THE THIRD PARAGRAPH IS CHANGED TO:

1. The N. J. Department of Transportation will determine the weight of asphalt binder for price adjustment by multiplying the percentage of new asphalt binder in the approved job mix formula by the weight of the item containing asphalt binder. If a Hot Mix Asphalt item has a payment unit other than ton, the Department will apply an appropriate conversion factor to determine the number of tons used.

THE FOURTH PARAGRAPH IS CHANGED TO:

$$A = B \times [(MA - BA)/BA] \times C \times M \times G$$

Where:

A = Asphalt Price Adjustment

B = Bid Price for Tack Coat/Prime Coat

MA = Monthly Asphalt Price Index

BA = Basic Asphalt Price Index

C = Petroleum Content of the Tack Coat and Prime Coat in Percent by Volume:

    Use 100% for cutbacks and Tack Coat 64-22

    60% for Polymer Modified Tack Coat

    60% for RS or similar type emulsions

M = Percentage of Bid Price Applicable to Materials Only: Use 82%

G = Gallons of Tack Coat and Prime Coat Furnished and Applied

**160.04 Measurement and Payment**

THE FOLLOWING IS DELETED FROM THIS SUB-SECTION:

<u>Item</u>	<u>Pay Unit</u>
FUEL PRICE ADJUSTMENT	LUMP SUM

THE FOLLOWING IS ADDED TO THIS SUB-SECTION:

**An Allowance for *Asphalt Price Adjustment* and *Fuel Price Adjustment* has been established in the bid proposal sheet. The allowance amount will be adjusted based on the formulas established in the specifications for calculating price adjustments if warranted.**

**Asphalt price adjustments will not be made for Tack Coat and Prime Coat.**

## SECTION 201 - CLEARING SITE

### 201.04 Measurement and Payment

THE SUB-SECTION IS CHANGED AS FOLLOWS:

The County will not measure and not make payment for Stripping, Clearing Site & Clearing Site, Bridge.

*Separate payment will not be made for: the removal of existing asphalt, pipe, bollards, inlets & castings, manholes & castings and other drainage structures; the removal of sidewalk, driveways, various types of curb and gutters; the removal of raised pavement markings (RPM'S); the removal of various striping & marking material; removal of loop detector lead; and the removal of existing signs to be replaced and or upgraded, unless otherwise provided in these supplementary specifications. When removal of such materials is required within the excavation for the roadway, and its right-of-way, it shall be included in the proposed work of these items.*

Separate payment will not be made for clearing site but the cost will be included in the various pay items in the Bidding Sheets.

**SECTION 202 - EXCAVATION**

**202.01 DESCRIPTION**

THE FOLLOWING IS ADDED:

*Excavation, Unclassified shall be used to correct any unforeseen poor sub-grade as revealed by the milling and or resurfacing operations below 12 inches from finished grade which is the proposed depth of the HMA Pavement Repair. Excavations above 12-inches shall be included in the cost for HMA Pavement Repair. The 12-inch depth is equivalent to a 2 inch milled surface; and a 10-inch depth as specified under the item for Hot Mixed Asphalt Pavement Repair, Prior To Overlays. For roads specified not to be milled, the 10-inch depth shall be measured as specified in Section 401.03.01.D, amended herein.*

**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:

The Department, as the generator, is solely responsible for the designation of excavated material. Unclassified excavation consists of excavation and management of material of whatever nature encountered, except for regulated material, pavement removal and acid producing soil.

**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 that 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 IS ADDED:

A nominal amount of cubic yards of this item has been included in the Bidding Sheets to establish a unit price. However, this amount does not reflect any material that may or may not be used. Payment for the item Excavation, Unclassified, will be the quantity as above described, at the price bid per cubic yard bid for the item **EXCAVATION, UNCLASSIFIED** in the Bidding Sheets.

The Excavation, Unclassified item shall include all work necessary to create bike paths and or restore roadway shoulders, as indicated by the Engineer.

**The removal of Concrete Base, Concrete Surface Courses, & Joints; i.e., sidewalks, driveways, curbs, roadway material, etc., will not be measured. Payment for such will be included under the various pay items in the Bidding Sheets.**

Other material necessary for the restoration procedures will be paid for under various items in the Bidding Sheets. No separate payment will be made for shoulder restoration or restoration as a result of curb removal/installation.

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.

## SECTION 302 - AGGREGATE BASE COURSE

### 302.01 DESCRIPTION

THE FOLLOWING IS ADDED:

Dense Graded Aggregate shall be used as base material in the roadway and as a surface course in shoulder areas as directed by the Engineer. This item may also be used for fill areas associated with Excavation, Unclassified.

Dense Graded Aggregate shall also be used in areas of uncurbed road sections where the edge of pavement drop-off is 1.5 inches or greater. DGA used for shoulder grading shall be produced by mixing RAP conforming to Sub-Section 901.05.04 of the Standard Specifications. The mixture shall be 50% Dense Graded Aggregate and 50% Recycled Asphalt Product (RAP) as defined by Section 901.10.03

### 302.04 Measurement and payment.

THE FOLLOWING IS ADDED:

Payment for Dense Graded Aggregate, Variable Thickness will be made in Pavement Repairs Areas that exceed the pavement repair thickness, as set forth in the Hot Mix Asphalt Pavement Repair Detail provided in the contract plans.

No additional payment will be made for any materials used when restoring the roadway as a result of construction procedures involving curb and sidewalk installation.

Dense Graded Aggregate in shoulder fill areas with no curbing shall be a mixture of 50% Dense Graded Aggregate and 50% Recycled Asphalt Product (RAP) as defined by Section 901.10.03 Recycled Asphalt Product (RAP) will not be measured and no separate payment will be made. All costs thereof shall be included in the cost for Dense Graded Aggregate, Variable Thickness.

Payment for all material, preparation, grading, compaction, labor & placement shall be included in the overall price bid for the item Dense Graded Aggregate Base Course, Variable Thickness in the Bidding Sheets.

**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.

**401.03.01 Preparing Existing Pavement**

**401.03.01. A Milling of HMA.**

THE FOLLOWING IS ADDED AFTER THE FOURTH PARAGRAPH:

Sawcut at the limit of paving in driveways and at other limits requiring a neat edge between new and existing HMA.

THE FOLLOWING IS ADDED:

Milled areas shall not be left unpaved for longer than 24 hours, unless approved by the Engineer.

**D. Repairing HMA Pavement.**

THE ENTIRE TEXT IS CHANGED TO:

The item Hot Mixed Asphalt Pavement Repair will be used on those sections of roadway that require excavation due to unforeseen underlying conditions that are revealed after milling operations or prior to overlaying and, in the opinion of the Engineer, are unsuitable for the direct placement of the surface course. Hot Mixed Asphalt Pavement Repair shall also be used in areas front new curb installation including areas with proposed ADA curb ramps.

Any debris created by this work shall be removed at the end of each workday and disposed of according to Subsection 201.03.09.

*Note, that all labor, material & equipment necessary to construct Hot Mixed Asphalt Pavement Repair are included in this pay item. This work shall include all excavation/disposal up to 12 inches below finish grade, 4" of DGA and 6" of Hot Mixed Asphalt 19M64. Any excavation beyond twelve inches below finish grade shall be paid for separately under the appropriate pay item. Actual quantities per street shall be determined upon completion of milling for each street. Roadway construction shall be determined upon inspection by the Engineer and the contractor shall only provide work for this pay item as approved by the Engineer.*

If potholes are discovered, notify the RE immediately. The RE may immediately direct repairs of small areas. The RE may require further evaluation of a large area to determine the need for additional milling and paving.

Sawcut existing Hot Mix Asphalt pavement to a maximum depth of 10 inches, or to the full depth of bound layers, whichever is less. Sawcut lines parallel and perpendicular to the roadway baseline and 3 inches away, at the closest point, from the damaged area to be repaired.

Remove damaged and loose material to a depth of at least 3 and no more than 10 inches below the level of milling within the boundary of the saw cuts to form rectangular openings with vertical sides. Shape and compact the underlying surface to produce a firm, level base. Ensure that the remaining pavement is not damaged.

Apply polymerized joint adhesive or tack coat to the vertical surfaces of the openings. Spread and grade Hot Mix Asphalt in the opening as directed by the RE. Ensure that the temperature of the HMA when placed is at least 250 °F, and compact as specified in 401.03.03.F. Compact areas not accessible to rollers with a flat face compactor. Compact until the top of the patch is flush with the adjacent pavement surface.

Reuse removed material as specified in 202.03.07.A.

#### 401.03.02 Tack Coat and Prime Coat

TABLE 401.03.02-1 IS CHANGED TO:

<b>Table 401.03.02-1 Tack Coat Application</b>			
<b>Material</b>	<b>Spraying Temp, °F</b>	<b>Gallons per Square Yard</b>	<b>Season</b>
<b>Cut-Back Asphalt:</b>			
RC-70	120 to 190	0.05 to 0.15	Oct 15 to Apr 15
<b>Emulsified Asphalt:</b>			
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:

<b>Table 401.03.02-2 Prime Coat Application</b>			
<b>Cut-Back Asphalt</b>	<b>Spraying Temp, °F</b>	<b>Gallons per Square Yard</b>	<b>Season</b>
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
<b>Emulsified Asphalt:</b>			
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 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.**

THE THIRD PARAGRAPH IS CHANGED TO:

Use an MTV for the construction of surface course in the traveled way. Ensure that the MTV independently delivers HMA from the HMA trucks to the HMA paver. Operate the MTV to ensure that the axle loading does not damage structures, roadway, or other infrastructure.

##### **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  $2\frac{1}{4}$  inches. A vertical edge joint will be permitted for lift thickness  $2\frac{1}{4}$  inches or less when traffic has to be maintained. For lift thickness greater than  $2\frac{1}{4}$  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  $\frac{1}{4}$  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  $\frac{1}{8}$  of an inch) than the previously placed adjoining mat. If the newly compacted mat results in a depression at the joint of  $\frac{1}{8}$  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 2 to 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 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 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 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 6 inches.

Alternate trips of the roller shall be terminated in stops approximately 2 feet from the preceding stop. When paving in echelon, rollers compacting the mat behind the lead paver shall maintain approximately 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.

#### **H. Air Void Requirements.**

THE FOLLOWING IS ADDED TO THE THIRD PARAGRAPH:

Inside shoulders less than 6 feet in width will not be included in other lots unless requested by the RE.

THE FOLLOWING IS ADDED AFTER THE THIRD PARAGRAPH:

If areas of existing shoulders are found to be insufficient to support the proposed HMA pavement and the required compaction cannot be achieved, notify the RE immediately. The RE may either direct additional milling and paving to provide a suitable base to pave the proposed HMA or waive coring and air void requirements in such shoulder areas.

**401.03.04 Sawcutting and Sealing of Joints in HMA Overlays**

THE TEXT OF THIS SUBPART IS DELETED.

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**401.03.05 Core Samples**

THE LAST SENTENCE OF THE 2ND PARAGRAPH IS CHANGED TO THE FOLLOWING:

Apply an even coating of tack coat to sides of the hole. Place HMA in maximum lifts of 4 inches in the hole and compact each lift. Ensure that the final surface is 1/4 inch above the surrounding pavement surface.

**401.04 MEASUREMENT AND PAYMENT**

THE FOLLOWING IS ADDED:

<u>Item</u>	<u>Pay Unit</u>
HOT MIX ASPHALT 9.5 M 64 LEVELING COURSE	TON

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 Department will make a payment adjustment for HMA ride quality, as specified in 401.03.03J.

The County will not measure and will not make payment for the following items:

Prime Coat

Tack Coat

MTV

Test Strips

Quality Control for Compaction including comparison cores and nuclear density testing

Polymerized Joint Adhesive

All costs thereof shall be included in the prices bid for the various Hot Mix Asphalt items.

Pay Adjustments for Air Voids, Thickness and Ride Quality will be made according to Subsections 401.03.03.H, 401.03.3.I, and 401.03.03.J, respectively.

Disposal of asphalt will be made to an N.J.D.E.P. approved recycling facility. Prior to the start of operations, the Contractor shall notify the County of the location where the millings will be disposed. Disposal of the millings will be carried out in accordance with the Standard Specifications

*Hot mix asphalt material for manhole, inlet and other ramping will not be measured. No separate payment will be made for this hot mix asphalt material.*

HMA 19M64 Base Course shall be stone mix. Payment for HMA Base Course will be included under the item HMA Pavement Repair, and will be measured by the actual square yards of asphalt installed at the appropriate depth indicated on the detail sheets.

An estimated amount of Hot Mix Asphalt Pavement Repair per road has been provided in the Road Quantity Worksheet. This pay item shall cover excavation/disposal up to 12 inches below finish grade, 4" of DGA and 6" of HMA 19M64 Base Course. However, this amount does not reflect any material that may or may not be used. Actual locations and quantities on each street will be determined by the Engineer upon completion of milling and inspection of the roadway base.

Where necessary & as directed by the Engineer, HMA 9.5M64 Mix will also be used as a Leveling Course, as specified in Section 902.

A prime coat will be applied to dense graded aggregate base prior to placement of hot mix asphalt pavement. Separate payment will not be made for prime coat.

A tack coat will be applied to all layers of hot mix asphalt courses, prior to placement of new hot mix asphalt course. In addition, a tack coat will be applied at the edges of the new pavement between paver passes. Separate payment will not be made for tack coat.



## SECTION 504 - STRUCTURAL CONCRETE

### 504.03 Construction

THE FOLLOWING IS ADDED:

#### 504.03.04 Membrane Waterproofing

Verify approved membrane waterproofing products from the "Bureau of Material's Approved List" on the following NJDOT website:

<http://www.state.nj.us/transportation/eng/technology/materials>

Utilize either spray applied waterproofing or sheet membrane waterproofing on the bridge deck.

1. Spray applied membrane waterproofing. For spray applied membrane, supply an elastomeric coating system. Apply a thickness that is no less than then thickness to which the manufacturer's independent testing was conducted. Prior to the application, provide a primer that is approved by the manufacturer. Spray applied membrane waterproofing products that may be used are as follows:

#### Spray Applied Waterproofing Membrane

Bridge Preservation L.L.C.  
Contact Information:  
R. J. Watson, Inc. Attn: Joe Bilotti  
Bridge and Structural Engineered Systems  
78 Glenn Drive  
Amherst, NY 14228  
Telephone: (203) 858-9515

PmB Bridgedeck Waterproofing System  
Con-Serv, Inc.  
Contact Information:  
Richard W. Drummond, President  
Airport Industrial Park, 685 Aviation Blvd.  
Georgetown, SC 29440  
Telephone: (860) 666-5008

Royston System  
Royston Membrane No. 10A and Royston Membrane Primer 713A as manufactured by  
Royston Laboratories, Inc.  
Pittsburg, PA 15238  
Telephone: 412-828-1500

Protecto Wrap System  
M-400A Membrane, No. 80 Primer, and 160H Mastic as manufactured by Protecto Wrap  
Co.  
2255 South Delaware Street  
Denver, CO 80223

Telephone: 303-777-3001

W.R. Grace System

Bituthene 5000, Bituthene Primer, and Bituthene Mastic as manufactured by W.R. Grace Co.

62 Whittemore Avenue

Cambridge, MA 02140

Telephone: 617-976-1400

Other suppliers of spray applied membrane waterproofing may be used given adherence to these specifications.

- 2. Installation of sheet membrane waterproofing on bridge decks.** Prior to applying a primer recommended by the manufacturer of the sheet membrane, thoroughly clean the surface of the bridge deck and the sides of the curb for a height of 1 inch above the top of the surface course and ensure that surfaces are free of all foreign material such as grease, clay, dust, salt deposits, etc. Remove all loose and/or adhering foreign material from the deck using air jets, sandblasting, mechanical sweepers, hand broom or other approved methods. Correct any unusually sharp concrete edges on the deck surface which would puncture the sheet membrane in a manner satisfactory to the County prior to the installation of the sheet membrane waterproofing.

Do not apply the primer or install the sheet membrane during wet weather conditions or when the deck and ambient temperature are below the prescribed minimum temperature for the application of the hot mix asphalt (HMA) surface course. Thoroughly clean the deck surface and ensure it is visibly dry prior to and during application of the primer.

Apply the primer uniformly with a squeegee, brush or roller and work it thoroughly into the concrete surface at a rate prescribed or recommended by the manufacturer. Apply the sheet membrane as recommended by the manufacturer, provided that the primed surface does not become contaminated with foreign matter or moisture.

After the primer has dried, apply one layer of sheet membrane. Remove the release paper, protecting the tacky surface of the membrane from the sheet membrane and roll the sheet membrane with the tacky side face down so as to bond to the primed deck surface. Apply the sheet membrane by hand methods or mechanical applicators. Overlaps must be a minimum of 4 inches at the edges and ends of each strip and shall be made in a manner to provide a shingling effect toward the low side of the deck. Seal overlaps in accordance with the manufacturer's recommended procedure. Use hand rollers or other satisfactory pressure apparatus at the barrier face to insure that the sheet membrane is uniformly adhered to the concrete. Ensure that the entire sheet membrane is free of wrinkles, air bubbles and other placement defects.

Place sheet membrane waterproofing at drop inlets, vertical concrete surfaces and roadway joints in accordance with the details shown on the Plans or as directed by the County. At concrete curbs, barriers and other vertical concrete surfaces adjacent to areas of the bridge deck surfacing, install a sheet membrane flashing strip in the manner detailed on the Plans or as directed and in accordance with the manufacturer's recommendations.

Patch any torn or cut areas or narrow overlaps by coating the area with primer and then placing sections of the sheet membrane over the defective area in such a manner that the patch extends at least 6 inches beyond the defect in all directions. Roll the patch or otherwise firmly press into the surface.

Install sheet membrane waterproofing in continuous sheets. Cutting sheet membrane waterproofing, thereby leaving temporary openings around spall and deck repairs, will not be permitted.

After the sheet membrane waterproofing has been completed, cut the sheet membrane at all deck drain pipes with 2 right angle cuts. Make the cuts to the inside diameter of the drain pipe. Turn down the corners of the membrane waterproofing, made by the cutting, into the drains and laid in a coating of primer.

Rubber tired vehicles, including paving equipment, may be allowed on the bare membrane only at such time and in such manner as approved by the County.

**504.04 MEASUREMENT AND PAYMENT**

THE FOLLOWING ITEMS ARE ADDED:

**The County will measure and make payment for Items as follows:**

<b>Item</b>	<b>Pay Unit</b>
MEMBRANE WATERPROOFING	SQUARE YARD

**SECTION 507 – CONCRETE BRIDGE DECK AND APPROACHES**

**507.03 Construction**

**507.03.02 Constructing Bridge Decks**

Refer to NJDOT Standard Detail Plate BCD-507-3.

**L. Saw Cut Grooved Surfacing.**

Provide 2 approved gauges to the County to verify groove depth before sawcutting. Include the manufacturer’s recommendations for use with the gauges.

Cut grooves using multi-bladed sawcutting equipment fitted with diamond-tipped circular saw blades. The County will allow the use of single blade saw equipment where necessary to complete the work, as approved by the County.

Cut grooves perpendicular to the centerline of the traveled way. Groove in partial-width passes. Limit each pass to 1 lane width. Ensure that grooves are between 0.10 and 0.15 inches wide and 1/4 and 3/8 inches deep. Space the blades to achieve the distance specified in Table 507.03.02-1 between the centerlines of each groove to form a random pattern.

<b>Table 507.03.02-1 Groove Spacing</b>						
3/4"	1-1/4"	5/8"	1"	5/8"	1-1/4"	3/4"

Perform consecutive passes within 2 inches of the previous pass. Do not cut grooves over an area that has been already grooved, or introduce a cutting blade into a groove that has been already established.

During grooving operations, the County will randomly check the groove dimensions. If the minimum groove depth has not been achieved, stop grooving operations and make the necessary adjustments.

Ensure that slurry or debris from the grooving operations does not accumulate in the grooves. Continuously collect slurry and dispose of as specified in 201.03.09. Ensure that the slurry does not enter the structure or highway drainage system.

**The County will measure and make payment for Items as follows:**

<b>Item</b>	<b>Pay Unit</b>
SAWCUT GROOVED DECK SURFACE	SQUARE FOOT

## SECTION 551 - BRIDGE DECK REHABILITATION

### 551.03.01 Repair of Concrete Deck

Refer to NJDOT Standard Detail Plate BCD-551-2.

- A. **Deck Condition Survey.** The County will perform the deck condition survey before scarification, if scheduled, and after the removal of any existing HMA overlay and waterproofing membrane. Submit written notice to the County at least 15 days before the work site is available for a deck condition survey. The County will schedule surveys during daylight hours unless the working time is restricted in the Contract. The County will perform surveys only if the ambient temperature has been above 40 °F for at least 72 hours before the beginning of the survey and only if the deck is dry. The County will use the data obtained to determine the repair limits.
- B. **Sawcut and Removal.** Remove loose and disintegrated concrete from the areas to be repaired to a sound concrete surface. Ensure that the remaining concrete is not damaged during concrete removal. Ensure that the reinforcement steel is not damaged or debonded during concrete removal. Remove concrete or prepare and shape repair areas with power chipping or hand tools. Do not use pneumatic hammers heavier than 33 pounds. Start such tools in the vertical position but must immediately tilt to a 45-degree operational angle. Do not operate pneumatic hammers and chipping tools at an angle exceeding 45 degrees relative to the surface of the deck slab. Do not use pneumatic hammers heavier than 20 pounds for chipping areas directly below the top longitudinal reinforcement steel or within 6 inches of the primary girder reinforcement steel, such as stirrups in pre-stressed concrete girder configurations.

Remove concrete to the depth specified for the following type of repair.

1. **Type B Repair.** For Type B repair, remove delaminated, deteriorated, and designated deck concrete to a minimum depth of 1 inch below the bottom of the top layer of existing reinforcement steel to a maximum depth of 50 percent of the thickness of the existing concrete deck. The RE may require the Contractor to remove sound concrete to achieve the limits of the designated repairs.
- C. **Cleaning and Splicing Reinforcement Steel.** Clean corroded, uncoated reinforcement steel by sandblasting, waterblasting, or wire brushing. For coated steel, clean areas where the coating is damaged by wire brushing and repair the coating according to AASHTO M 284. For reinforcement steel that has lost 25 percent or more of its original cross-sectional area, splice in or couple new epoxy-coated reinforcement steel of the same size. Lap the reinforcement steel at least 15 bar diameters from each end of the damaged area and wire tie together. If necessary, perform additional chipping of adjacent concrete to provide for this lap. Where reinforcement steel is broken or missing, lap new bars at least 30 bar diameters from each end of the break.
  - D. **Patching.** Use Type IA or IB quick-setting patch material, whichever is specified.
    1. **Quick Setting Patch.** For Type IA or IB quick-setting patch material, place according to the manufacturer's recommendations. Wet cure the patched area using wet burlap, as specified in 504.03.02.F.2, immediately after placing and finishing. Keep the patched area covered for 3 hours.

Do not open repair to traffic until compressive strength as measured by the average of 2 test cylinders is more than 2000 pounds per square inch. If the required compressive strength is not met by the time the roadway must be opened to traffic, open to traffic. Remove and replace the repair during the next available roadway closure.

**507.03.02 Constructing Bridge Decks**

**A. Forms.** Construct forms as follows:

**2. Removable Forms.**

THIS PART IS CHANGED TO:

Construct removable forms as specified in 504.03.02.B. Do not use shoring to support stringers along the span length where the superstructure, under live load and impact loads, is designed for composite action. Do not weld attachments required for placement of the removable forms to the beam.

**L. Saw Cut Grooved Surfacing.**

THE FOLLOWING IS ADDED TO THE FIRST PARAGRAPH:

Do not saw cut until after the Department performs Acceptance Testing as specified in Subsection 507.03.02 N.

**N. Concrete Deck Surface Requirements**

**1. Acceptance Testing.**

THE FIRST PARAGRAPH IS CHANGED TO:

Construct deck slabs so that less than 9 percent of the measured length of the lot exceeds 1/8 inch tolerance in 10 feet. The ME will test the surface of concrete bridge deck slabs with a Class I Walking Profiler prior to the performance of saw cut grooved surfacing. The ME will calculate the percent defective using a rolling straight edge simulator analysis of the profiler data.

**507.04 MEASUREMENT AND PAYMENT**

THE FOLLOWING IS ADDED:

The Department will make a payment adjustment for concrete surface requirement quality in deck slabs and approach, by the following formula:

$$\text{Pay Adjustment} = Q \times \text{BP} \times \text{PR}$$

Where:

BP = Bid Price

Q= Surface Requirement Lot Quantity

PR= percent reduction as specified in Table 507.03.02-2

## SECTION 602 - DRAINAGE STRUCTURE

### 602.01 Description

THE FOLLOWING IS ADDED:

Contractor shall be responsible for reconstruction of inlets in the field as directed by the Engineer. Reconstruction shall include but not be limited to the demolition of existing inlet down to the floor, re-pouring of floor, reconstruction of inlet walls, backfilling, compaction, repair of all adjacent roadway and all else necessary and incidental thereto for the complete reconstruction of said inlets.

The County's Division of Public Works will inform the Contractor which inlets and/or manholes are to be reset and or replaced.

This Section also describes the requirements for constructing an inlet face plate.

### 602.02 MATERIALS

THE FOLLOWING IS ADDED:

Provide materials as specified:

- a). Inlet face plates are to be manufactured from 0.25 inch thick Cor-Ten steel plate, over 60,000 PSI high strength/low alloy weathering steel, conforming to A588 grade with chamfered edges with additional holes and/or slots cut above the gutter line opening to prevent or reduce flooding. Mounting clamps are also to be made of Cor-Ten steel.
- b). All mounting bolts are to be manufactured of carbon steel & zinc plated.
- c). All other hardware such as bolts, nuts, washers and the "medallion" are to be manufactured of stainless steel. The stainless steel medallion is to have a blue background and the words:

**"NO DUMPING DRAINS TO WATERWAY"** and a symbol of a **"FISH"** in the center.

Mounting hardware is to be "tamper proof" so that the medallion cannot be removed. Retrofit cover plates are to be supplied by the following NJDOT approved suppliers:

Environmental Retrofit Solutions LLC.  
230 Warburton Avenue  
Hawthorne, NJ 07506  
Telephone: (973) 427-8055  
Fax: (973) 310-3443

LMT - Mercer Group, Inc.  
690 Puritan Avenue  
Lawrenceville, NJ 08648  
Telephone: (609) 989-0399  
Fax: (609) 989-0969

KZ Environmental Group LLC  
127 5 15th Street Apt # I9Q  
Fort Lee, NJ 07024  
Telephone: (201) 709-0507  
Fax: Not available

**602.03.03 Setting Castings, Resetting Castings, and Reconstructing Inlets and Manholes**

THE FOLLOWING SUBSECTION HAS BEEN CHANGED TO:

**602.03.03 Setting Castings, Face Plates, Resetting Castings, and Reconstructing Inlets and Manholes**

THE FOLLOWING IS ADDED:

Inlet Face Plates - Install/attach retrofit cover plate to the existing curb piece of the inlet to reduce vertical opening to 2 inches at the gutterline. Provide a means for clamping the retrofit cover plate to the inlet curb piece and provide a firm and secure attachment. Install the medallion so that it can be viewed by the traveling public.

*All manhole & inlet casting designated for resetting shall be reset in Class B concrete to the appropriate grade or as specified by the Engineer.* For a single course resurfacing, a 36-inch minimum circular ramp of hot mix HMA concrete will be placed about the periphery of the manhole leaving 1/2 inch of the head exposed. In the case where the Contractor uses cold mix asphalt concrete for convenience; it will be removed prior to placing the hot mix asphalt surface course.

For inlet castings to be reset that are determined to be broken, worn or otherwise unsuitable, then the pay item **Reconstructed Inlet, Type \_\_ , Using New Casting** shall be used to compensate the Contractor for supplying the new casting and installing it to grade. The Contractor is to supply a complete new unit for inlets (i.e., casting, bicycle safe grate, 6 or 8-inch curb piece, associated bolt pads, and back-plate, etc.). All curb pieces shall be furnished with nameplate "Dump No Waste Drains to River" and 2D Brook Trout Design on both sides.

Any curb type inlet grates encountered within the project limits not consisting of the following opening configurations: bicycle safe or flat oval openings, shall be removed, & replaced with the item **Bicycle Safe Grates**. This item will also be used to replace any worn, broken or otherwise unacceptable inlet grate.

All inlet grates within the project limits not deemed to be bicycle safe will be replaced. If the frame & grate are damaged by construction operations so they cannot be used, they shall be replaced without additional compensation.



### 602.03.05 Extension Frames and Rings

The following is **added**:

Inlet and manhole extension frames may be used to raise existing inlet castings a maximum of 3-1/2". When existing castings are required to be raised more than 3-1/2", the item reset castings shall be used. The item reset castings shall also be used to alter grades and elevations up to 12" . .

If the manholes to be reset are broken, worn or otherwise unsuitable, then the pay item **Manhole Castings** will be used to compensate the Contractor for supplying the new casting and installing it to grade. The Contractor is to supply a complete new unit for manholes (i.e., frame & cover). *Note that all manhole specified herein are stormwater manholes and therefore, all covers shall be manufactured with pick-holes and vent holes.*

*Castings that are removed or replaced under this contract shall be delivered to the Union County Division of Public Works, located at 2371 South Avenue, Scotch Plains, NJ.*

In areas of irregular pavement, it may be necessary to adjust the grade of existing inlets and manholes. In the event, that the Engineer considers the existing castings to be unsafe, the item **Reset Existing Casting** will be used. This Item will also be utilized:

- Where it is necessary to replace existing inlets and manholes, with material supplied by others. In this scenario, the Contractor will be responsible for the removal of the existing frame and cover, replacement with new material and the transport of such refuse material to a staging area. Staging areas for each road will be discussed at the preconstruction meeting. The supplier of the new material utilized will be responsible for the removal of the refuse material, from the staging area; &
- *Where it is necessary to repair damaged or unacceptable manhole and or inlet walls to a depth of 12 inches below the bottom of the casting. Masonry of existing structures shall be repaired as necessary, or as directed by the Engineer.*

For manhole and inlet castings, the following ***Campbell Foundry Company*** Catalog Nos. or approved equivalents shall be used: Manhole, 1202B (frame, and cover); Extension Frame for Curb Type Inlets, 2701; Type B Inlet, Type 2618, casting, Type N- & Type J-ECO curb, back plate and bicycle grate.

Provided that the materials and dimensions are approved equivalent to the specified manhole and inlet models, (also refer to the Standard Construction Detail), such material can also be obtained from the following:

- \* Neenah Foundry Company - Telephone (920) 725-7000  
P.O. Box 729, Neenah, Wisconsin, 54957
- \* Bridgestate Foundry Corporation – Telephone (609) 346-4300  
Suite 201N, 20 East Clementon Road, Gibbsboro, New Jersey 08026

All cast iron inlet curb pieces not conforming to current N.J.D.E.P. Stormwater Regulations shall be removed & replaced. Curb piece replacements shall be accompanied by replacement of the adjacent curbs to each of the nearest joints in order to properly set the curb-piece. No separate payment shall be made for this curb work and shall be included in the overall price bid on the castings.

#### 602.04 Measurement and Payment

The following is added:

<u>Item</u>	<u>Pay Unit</u>
NLET FACE PLATE	UNIT

The bid price for inlet face plates shall include all costs associated with casting and installation of the inlet face plate to the curb piece of the inlet.

The unit price bid for resetting castings shall include furnishing & placement of the concrete, as well as, protection of the castings in a manner satisfactory to the Engineer, during the time they are exposed to traffic. Separate payment will not be made for extension rings and frames. All costs thereof shall be included in the unit price bid for reset castings.

*In the event that the If & Where quantities for castings, curb pieces and grates are not used, the County of Union shall not be responsible for reimbursement or storage of material. Any balance of new material shall be returned to the Contractor at no cost to the County of Union. All existing inlet & manhole castings, curb pieces & grates removed as salvage shall be delivered to the Union County Division of Public Works Facility located at 2371 South Avenue, Scotch Plains, NJ. The Contractor is advised that unless directed by the Engineer, the Union County Public Works Facility will not be available for storing materials & equipment.*

## SECTION 606 - SIDEWALKS, DRIVEWAYS, AND ISLANDS

### 606.01 Description.

THE FOLLOWING IS ADDED

Concrete sidewalk and ADA ramps shall be constructed prior to the milling and resurfacing phases of the project. All ADA ramps will be constructed in accordance with types specified on the plans and as directed and by the Engineer. Final ADA ramps location will be field delineated prior to the start of construction. Areas of new concrete sidewalk outside the areas of new ramps maybe requested by the Engineer as If and Where Directed.

Detectable warning surfaces shall be installed at all newly constructed handicap ramps & all existing ramps within the project limits, as specified herein. Detectable warning surfaces shall be installed in accordance with the **Americans with Disabilities Act Accessibility Guidelines (ADAAG)**, as approved by the FHWA Office of Management & Budget (OMB), on June 25, 2004, and as amended herein. Truncated Domes are the only detectable warning surfaces allowed by the ADAAG. Grooves & exposed aggregate will not be acceptable. Specifications in Section 406.8 of ADA Standards address the area that these warnings are to cover at the specified locations. For the Bidders convenience, Section 406.8 is summarized herein, however, Bidders are strongly urged to reference the full text, available online at <http://www.access-board.gov/guidelines-and-standards/buildings-and-sites/about-the-ada-standards/ada-standards/single-file-version>. Details depicting truncated dome layout & spacing are provided in the construction details of the contract plan set.

### 606.02.01 Materials.

THE FOLLOWING IS ADDED:

Materials for Detectable Warning Surfaces shall be Brick Red in color, and shall be abrasion, chemical, environmental and UV resistant. *The product used must be able to withstand all snow removal procedures.* All materials used shall be in compliance with ADAAG requirements for Detectable Warning Products. Material Compliance Documentation will be necessary for all detectable warning products, prior to the pre-construction meeting. When cured and or completed, the delineation shall be a truncated dome warning, slip resistant non-porous surface. All Cast In Place Detectable Warning Products shall be covered prior to applying appropriate curing compounds for new concrete sidewalk. Upon drying of curing material, detectable warning surfaces shall be uncovered for use.

### 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 handicap ramps, 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.

Care should be exercised when excavating for the construction of sidewalk & curb that have Area Fire Alarm Actuators (Pull Boxes), and at signalized intersections. These areas may have direct burial electrical leads and or conduit. Since the actual locations of these materials are unknown, the Contractor is strongly advised to contact the respective Fire Department for additional information, and or use extreme caution when excavating these areas. *Any damage to existing conduit, buried electrical material, and or other buried material, while excavating for curb and handicap ramp items, shall be the sole responsibility of the Contractor to restore and or replace, to the satisfaction of the Engineer. No separate payment will be made for these repairs.*

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.

A detailed listing of handicap ramps & detectable warning surfaces including specific curb and sidewalk quantities, have been incorporated into these specifications, and can be found at the rear of the Technical (T pages) Specifications. However, for the contractor's information, all ramps within the project limits new or otherwise shall be delineated with Detectable Warning Surfaces. The Contractor shall field visit and verify all locations for handicap ramp delineation with the Engineer prior to beginning work. 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 208, 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.

This work shall also consist of applying a color contrast and a slip resistant surface on Portland cement concrete sidewalks for the installation of detectable warning surfaces.

#### 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.

THE FOLLOWING SUBSECTION IS ADDED:

J. ADA Curb Ramps

*All ADA Curb Ramp areas shall be constructed using concrete, unless otherwise specified in these specifications. All new handicap ramps shall be applied with Detectable Warning Surfaces - Cast In Place Type. All existing ramps shall use the Detectable Warning Surfaces - Retrofit Type. Detectable Warning Surfaces shall be classified as follows:*

- a) Cast In Place Tile - shall be installed in the concrete in accordance with manufacturer's specifications. The cast in place tile shall be used for all new curb ramp construction.*
- b) Retrofit Surface Mount Tile - shall be installed on the surface of existing concrete curb ramps in accordance with manufacturer's specifications. This product must be able to withstand snow removal procedures. The manufacturer of such product shall provide documentation supporting such.*

**606.03.03 Detectable Warning Surfaces**

THE FOLLOWING IS ADDED:

All pre-existing delineation materials must be removed prior to installing Detectable Warning Surfaces. The installation of Detectable Warning Surfaces shall be according to the corresponding construction details and the manufacturer's recommendation. All areas determined to have been damaged or not to be in conformance with the Specifications or the Plans shall be removed and replaced at no additional compensation to the State.

*The item Detectable Warning Surfaces of the various types will be measured in units, based on the actual amount installed. Each unit installed shall be approximately 4 feet (ramp width) by 2 feet (running slope). The unit price bid for the item Detectable Warning Surfaces, shall include all material, equipment, labor & any grinding/removal procedures of any previous ramp delineation that may exist on the ramp to be treated. There will be no difference in price between the various products.*

**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 and or handicap

ramps. 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.

*The Contractor's attention is directed to the construction detail entitled "10 x 20 Concrete Curb". This detail identifies the typical pavement section necessary when restoring County Roads. The Contractor shall be responsible for improving all gutterlines within two (2) feet of proposed curb construction. Should the Contractor damage the roadway outside of these limits while excavating/installing adjacent curb, sidewalk and or ramps, the above referenced detail shall be used for restoration procedures. The Contractor will be responsible for all material & labor necessary to improve the gutterline as directed by the Engineer AND to restore the damaged road section. No additional payment will be made for any material & labor involved with said work.*

#### **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.

#### **607.05 Granite Curb**

THIS SUBSECTION HAS BEEN RENAMED AS FOLLOWS:

#### **607.05 Belgian Block Curb**

#### **607.04 Measurement and Payment**

THE FOLLOWING IS ADDED:

Item

BELGIAN BLOCK CURB

10" x 20" CONCRETE VERTICAL CURB

Pay Unit

LINEAR FEET

LINEAR FEET

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.

The construction of cheek walls associated with the installation of ADA curb ramps, as shown on the Construction Details for the various types, shall be paid for as 10" x 20" Concrete Vertical Curb.

**SECTION 610 - TRAFFIC STRIPES, TRAFFIC MARKINGS AND RUMBLE STRIPS**

**610.01 Description**

THE FOLLOWING IS ADDED TO THIS SECTION:

This item shall consist of furnishing and installing white & yellow pavement lines to HMA or Portland cement concrete surface. Thermoplastic Long-Life material shall be used for all permanent lines on hot mix asphalt concrete or Portland cement concrete surfaces, in accordance with these provisions and in conformance to the dimensions and locations shown on the plans or as established by the Engineer.

*The Contractor shall replace all existing striping as shown on the plans in-kind or based on As-Built plans provided by the County unless otherwise directed by the engineer or as shown on the plans. Available As-Built traffic signal plans for County owned traffic signal will be provided at the pre-construction meeting. The Contractor shall be responsible for obtain traffic signal plans for NJDOT traffic signals from NJDOT Documents Unit. A list of traffic signal agency jurisdiction will be provided at the pre-construction meeting.*

*Traffic stripes and pavement markings of the various types, shall be installed prior to the roadway being opened for traffic, unless prior approval is obtained from the Engineer. Should this approval be granted, or such is not recommended by the Manufacturer of the material, the Contractor shall pre-mark the newly surfaced road, prior to such being opened to traffic, and in the presence of the Engineer's representative. The use of traffic control devices (i.e., cones or drums) to delineate traveled ways, crosswalks, stop bars, etc. will not be allowed.*

*Temporary tapes and/or paint may be utilized on milled surfaces only. No additional payment will be made for temporary traffic tape and or paint. All labor & materials necessary to install and remove temporary striping items shall be made part of the various striping items as described herein.*

Under this contract, there may be locations in which existing striping conflicts with the proposed permanent striping. In this case, the Contractor or Sub-Contractor shall remove the existing striping as directed by the Engineer, and shall be considered as part of this item. No separate payment will be made for the removal of stripes or pavement markings.

Installation of various Two Way Plowable Pavement Reflectors & Castings, include removal of existing pavement reflectors and castings, and disposal of such, including the lenses when still intact.

Materials used on this project shall meet all manufacturers' specifications.

**610.02.01 Materials**

THE FOLLOWING MATERIALS ARE RENAMED TO:

Traffic Stripes.....	912.03.01
Traffic Markings .....	912.03.02



### 610.02.02 Equipment.

The following is added:

The equipment for applying thermoplastic material shall be capable of providing continuous mixing and agitation of the material. The parts of the equipment conveying the material between the main reservoir and the shaping die shall be so constructed to prevent accumulation and clogging. The mixing and conveying parts and the shaping dies or spray gun shall be capable of maintaining the material at optimum plastic temperature. The equipment shall be so constructed to ensure continuous uniformity in the dimensions of the entire stripe or marking. The kettle provided for the melting and heating of the thermoplastic material shall be equipped with an automatic thermostat control device and heated by a controlled heat-transfer liquid rather than by a direct flame. The heating kettle and applicator shall be equipped and arranged to meet the National Board of Fire Underwriters and State and Federal regulations. The parts of the equipment that come in contact with the material shall be easily accessible for cleaning and maintenance.

All equipment for applying traffic stripes or traffic markings shall be equipped with glass bead dispensers of a type that will mechanically and automatically dispense beads uniformly on wet stripes or markings at the rates specified.

## 610.03 CONSTRUCTION

### 610.03.01 Long-Life Traffic Stripes

THE SUBPART HEADING AND THE ENTIRE TEXT IS CHANGED TO:

### 610.03.01 Traffic Stripes

- A. Striping Plan.** At least 20 days before beginning the work, submit to the RE for approval a striping plan that includes:
1. Schedule of operations for applying traffic stripes.
  2. Number and type of equipment.
  3. Manufacturer's recommendations for use of the materials, including, but not limited to, mixing ratios and application temperatures.
  4. Details on the means and methods for surface preparation
  5. Details on the means and methods for premarking
  6. Details on the proposed test strip such as location, length etc
- B. Surface Preparation.** Immediately before striping the pavement surface, clean the surface of dirt, oil, grease, and foreign material, including curing compound on new concrete. Clean the surface 2 inches beyond the perimeter of the stripes to be placed.
- C. Striping Test Strip.** Before beginning striping operations, construct 1 or more striping test strips to demonstrate the Contractor's ability to meet the requirements specified in 610.03.01.D. For each striping test strip, apply striping to approximately 500 linear feet of pavement with the same striping procedure that will be used for the Project. Construct a test strip for each applicator unit and epoxy resin material used. Provide the RE with 50 test cards made of heavy stock paper measuring 8 inches by 2 inches, and two wet film thickness gauges. Construct additional test strips when major equipment repairs or adjustments are made or when the traffic stripes are determined to be defective. Construct additional test strips when traffic striping operations are performed on multiple, non-

continuous occasions. Perform additional test strips as requested by the RE. When the test strip is in compliance, as determined by the RE, proceed with striping operations. Each test strip may remain in place and become part of the finished stripes subject to the requirements of 610.03.01.E.

- D. Applying Striping.** Mix epoxy resin with an automatic proportioning and mixing machine, and hot-spray the compound at a temperature of between 100 and 130 °F onto dry surfaces. Apply the compound with a wet film thickness of  $20 \pm 1$  mil. Apply the material during dry weather conditions when the ambient temperature is a minimum of 45 °F and the surface temperature is a minimum of 50 °F. Adjust operations as required for the prevailing ambient and surface conditions to achieve a no-track drying time of 30 minutes or less.

Immediately after, or in conjunction with, the compound application, uniformly apply 12 pounds of large glass beads per gallon of epoxy resin to the compound. After applying the large glass beads, uniformly apply 12 pounds of small glass beads per gallon of epoxy resin to the compound.

Remove all compound that has been tracked or spilled outside of the intended placement areas.

- E. Performance.** Ensure that the traffic stripes, show no fading, lifting, cracking, chipping for any reason including but not limited to traffic wear, maintenance activities including snow plowing, until Acceptance. Ensure that 60 days after application, traffic stripes have a minimum retroreflectance value of:

375 millicandelas per square meter per lux for white traffic stripe

250 millicandelas per square meter per lux for yellow traffic stripe

- F. Defective work.** Replace traffic stripes that are determined by the RE before Acceptance to be defective or that are damaged during construction. Remove defective stripes as specified in 610.03.08.

Replace an entire 10-foot skip line if the RE determines the stripe to have a deficiency.

If the RE determines, based upon calculated and measured yields, that the striping has a wet film thickness of less than 19 mils, restripe the entire length with 20 mils of new compound.

Provide the RE with an LTL-X Reflectometer that has been certified by the manufacturer as being calibrated within the last two years. The RE will test the retroreflectance of traffic stripes. Replace traffic stripes that do not meet the retroreflectance values indicated in 610.03.01.E. Replace the entire length of striping where improper curing or discoloration has occurred. Discoloration is localized areas or patches of brown or grayish colored compound. Where improper curing or discoloration occurs intermittently in intervals of 100 feet or less throughout the striping length, replace the entire length of striping from the beginning of the first occurrence until the end of the last occurrence, plus 5 feet on each end.

Replace the entire length of striping that has failed to bond to the pavement, or has chipped or cracked. Where more than 25 spots of chipping, cracking, or poor bonding have occurred within 1000 linear feet of striping, replace the entire 1000 foot length of striping as indicated in 610.03.01.E.

- G. Opening to Traffic.** Complete each application of all types of traffic stripes and allow to thoroughly dry before opening to traffic. At a minimum, delineate center lines on undivided roadways and broken lines between lanes before the traveled way is opened. The RE will determine when the traveled way can be opened to traffic.

## 610.03.02 Thermoplastic Traffic Markings

THE SUBPART HEADING AND THE ENTIRE TEXT IS CHANGED TO:

### 610.03.02 Traffic Markings

**A. Marking Plan.** At least 20 days before beginning the work, submit to the RE for approval a marking plan that includes:

1. Schedule of operations for applying traffic markings,
2. Number and type of equipment,
3. Manufacturer's recommendations for use of the materials, including mixing ratios and application temperatures.
4. Details on the means and methods for surface preparation
5. Details on the means and methods for premarking

**B. Surface Preparation.** Immediately before marking the pavement surface, clean the surface of dirt, oil, grease, and foreign material, including curing compound on new concrete. Clean the surface 2 inches beyond the perimeter of the marking to be placed.

**C. Applying Traffic Markings.** Place preformed thermoplastic or hot extruded thermoplastic traffic markings on thoroughly dry surfaces and during dry weather conditions. Apply using equipment and procedures that produce markings of the specified color, width, and thickness with well-defined edges, uniform retroreflectivity, and proper bonding to the pavement. Apply the thermoplastic material as follows:

1. **Preformed Thermoplastic.** Melt the preformed thermoplastic tape to bond the traffic markings permanently in position according to the manufacturer's recommendations.

Meet the minimum initial retroreflectance value, as specified in 610.03.01.D for thermoplastic tape, by applying additional glass beads to the hot-wet material in a uniform pattern as necessary.

2. **Extruded Thermoplastic.** Uniformly heat the thermoplastic material. When the ambient and surface temperatures are at least 50 °F, apply the melted material at a temperature of between 400 and 425 °F. Extrude the thermoplastic traffic markings on the HMA or concrete pavement ensuring a thickness of  $90 \pm 1$  mils.

Immediately after, or in conjunction with the thermoplastic extrusion, uniformly apply glass beads to the wet material at a minimum rate of 10 pounds per 100 square feet of markings. Apply glass beads by mechanical means only.

THE FOLLOWING IS ADDED TO SUBSECTION C:

The traffic lines shall be applied in accordance with the manufacturer's installation instructions.

All traffic stripes, words, legends and markings shall conform to the current edition of the Manual on Uniform Traffic Control Devices (MUTCD) for size, color, shape and placement.

*All stop bars shall be 24" wide white lines. All longitudinal lines, broken or dashed, shall be installed as follows: 10-foot solid line with a 30-foot gap. All shoulder lines shall be 4" wide white line; lane lines at intersections shall be 8" wide white lines; crosswalk lines (perimeter) shall be 8" wide white lines.*

*Crosswalk cross hatching shall be 12" wide white at 3' center to center, utilizing the ladder type, regardless of the existing cross hatching width; crosswalk hatching shall be installed parallel to the road centerline and not perpendicular to the crosswalk. Traffic island gore hatching shall either be 24" wide white or yellow line, regardless of existing width. All crosswalks shall be 8 feet in width, with white perimeter lines as described above*

*All centerline markings shall be a four-inch wide double yellow line for the entire length of these roads. Additionally, the Contractor performing this work shall provide a six-inch wide gap between the double yellow lines for the placement of plowable raised pavement markers, either installed under this or future contracts. In the event that a six-inch wide gap is not provided, the Contractor shall remove that length of line not in compliance and reapply the material to provide the required gap distance without additional compensation. Openings 6" in length may be provided at 20 foot intervals along edge lines placed on the inside radius of super elevated curves, to avoid surface ponding.*

Longitudinal lines shall be offset at least 4 inches from construction joints of Portland cement concrete pavements and joints and shoulder breaks of hot mix asphalt concrete pavements.

All stray materials which result from the application of traffic marking lines and symbols shall be cleaned up and disposed of prior to opening the road to traffic and to the satisfaction of the Engineer. **The use of grinders or similar method will not be allowed on the new pavement surface.** Additionally where applicable, excess glass beads that are on the roadway surface shall be cleaned up prior to opening the road to traffic. The beads must be swept or vacuumed up. The use of blowers to clean the roadway surface of glass beads is not an acceptable method of removal.

When traffic lines are specified in the contract for newly paved asphalt concrete surfaces, they shall be applied before public traffic is allowed on the freshly paved surface. In snow removal states, the traffic lines should preferably be inlaid in the fresh surface during final rolling of the mat, but in any case they shall be applied before the close of the shift on the day that the surface is paved. These traffic lines can also be overlaid on existing pavement surfaces in accordance with the manufacturer's installation instructions.

THE FOLLOWING IS ADDED TO SUBSECTION D:

- D. Performance.** Ensure that the traffic markings show no fading, lifting, cracking, chipping for any reason including but not limited to traffic wear, maintenance activities including snow plowing, until Acceptance. Ensure that 60 days after application, traffic markings have a minimum retroreflectance value of:

375 millicandelas per square meter per lux for white traffic markings

250 millicandelas per square meter per lux for yellow traffic markings

At no additional compensation by the County, the Contractor shall remove all traffic paint where the striping or markings will not be directly under long-life material, replace long-life traffic stripes or traffic markings damaged due to any sawing or sealing of joints in the HMA overlay, and replace all existing pavement reflectors that have been marred by striping or marking material as a result of improperly located traffic stripes or traffic markings.

- E. Defective work.** Replace thermoplastic traffic markings that are determined by the RE before Acceptance to be defective or that are damaged during construction. Remove defective markings as specified in 610.03.08.

Replace the entire area of thermoplastic traffic markings determined to be less than the required thickness, to have incorrect color or width, to have failed to bond to the pavement, or to have chipped or cracked. The minimum replacement area is an individual word or symbol, or for longitudinal lines the entire length from where the deficiency first occurs to where it no longer exists.

The RE will determine initial retroreflectance as follows:

Provide the RE with an LTL-X Reflectometer that has been certified by the manufacturer as being calibrated within the last two years. The RE will test the retroreflectance of traffic markings. Replace traffic markings that do not meet the retroreflectance values indicated in 610.03.02.D.

Complete each application of traffic markings and allow to thoroughly dry. All stray materials which result from the application of traffic lines and markings shall be cleaned up and disposed of prior to opening the road to traffic and to the satisfaction of the Resident Engineer. The use of grinders or similar method will not be allowed on newly paved surfaces. Additionally, where applicable, excess glass beads that are on the roadway surface shall be cleaned up prior to opening the road to traffic. The beads must be swept or vacuumed up - the use of blowers to clean the roadway surface of glass beads is not an acceptable method of removal.

- F. Opening to Traffic.** Complete each application of thermoplastic traffic markings and allow to thoroughly dry before opening to traffic. The RE will determine when the traveled way can be opened to traffic.

#### **610.03.03 Raised Pavement Markings (RPM)**

THE FOLLOWING HAS BEEN ADDED:

This specification covers a type of snow-plowable, durable, abrasion-resistant, retroreflective raised pavement marker designed for lane marking and delineation. The markers shall be designed to provide highly effective, long-life nighttime visibility.

All work associated with the installation of reflectors and castings, including road preparation, sand blasting, and use of epoxy and priming agents, etc., shall be included in the overall unit price bid for these items.

The marker shall be manufactured from an engineering thermoplastic polymer (polycarbonate) meeting ASTM Standard Specification for Plowable, Raised Retroreflective Pavement Markers D4383-96 and designed for superior impact resistance and weatherability. The marker shall incorporate an abrasion resistant ceramer hardcoat, microcube corner optics retroreflective lens, and pressure sensitive adhesive pad (excludes Model 194). These features are designed to provide long-lasting nighttime visibility by resisting breakage, providing optimal angularity, and adhering firmly to the casting. These markers are intended for application in a nodular iron holder (casting) with an adhesive.

The markers shall be durable, impact-resistant, abrasion-resistant, snow-plowable, raised, and retroreflective. The designed application of the marker is for longitudinal and gore markings on new and existing roads in snowplow regions.

All markers shall be applied in accordance with the manufacturer's recommendations.

Marker configurations shall be installed in accordance with NJDOT Standard Details as shown in the Contract Plans.

#### **610.03.04 Removal of RPMs**

THE ENTIRE TEXT IS CHANGED TO:

Remove RPMs as directed by the RE. Dispose of RPMs as specified in 201.03.09. If directed by the RE, fill the hole with HMA patch as specified in 159.03.07 except sawcutting is not required.

#### **610.03.08 Removal of Traffic Stripes and Markings**

THE FOLLOWING HAS BEEN ADDED:

Equipment for removing the various types of traffic stripes or traffic markings shall be designed with a vacuum system to remove all millings from the pavement surface and prevent airborne residue from escaping into the atmosphere. All equipment including traffic marking tape applicator and retrometer shall be duly calibrated and shall conform to manufacturer's requirements.

#### **610.04 MEASUREMENT AND PAYMENT**

THE FOLLOWING IS ADDED:

<i>Item</i>	<i>Pay Unit</i>
TRAFFIC MARKINGS, LINES	LINEAR FOOT
TRAFFIC MARKINGS, SYMBOLS	SQUARE FEET

THE FOLLOWING IS ADDED AT THE END OF THE SUBSECTION:

It shall be the responsibility of the Contractor performing this work to provide a breakdown of materials and footage applied at the end of each workday to the County. In the event of a discrepancy between the County and the Contractor's as-built quantity, both the County and the Contractor will re-measure all roads to resolve their differences. This will take place before final contract payment occurs.

In the event of a discrepancy between the County and the Contractor's as-built quantity, both the County and the Contractor will re-measure all roads to resolve their differences. This will take place before final contract payment occurs.

**Removal of RPM's when directed by the RE shall be included in the bid pay items of the various RPM's types.**

The quantity shown in the Bidding Sheets represents the total 4-inch line equivalent for the Traffic Markings, Lines.

Traffic markings of the various types and materials for words, arrows or other pavement symbols will be measured by square feet.

Payment for traffic stripes will be made for the number of linear feet installed, accepted and placed in accordance with the requirements of these and the manufacturer's specifications at the price bid per linear foot under the item TRAFFIC MARKINGS, LINES.

*Pavement markings of the various types, will be paid for at the contract bid price per square foot, that shall be full compensation for cleaning and preparing the pavement surface, furnishing and installing all materials and for all materials, labor, tools, equipment and incidentals necessary to complete the work.*

*No additional payment will be made for the removal of reflectors & castings.*

The cost for the removal of traffic lines and markings including solid areas, letters, arrows, and other symbols from HMA and Portland cement concrete surfaces shall be included in the unit price bid for this item.

Traffic lines will be paid for at the contract unit price, which shall be full compensation for cleaning and preparing the pavement surface, for furnishing and placing all materials, and for all materials, labor, tools, equipment and incidentals necessary to complete the work.

At no cost to the County, the Contractor shall remove all traffic paint where the striping or markings will be directly under proposed long-life material, replace long-life traffic stripes or traffic markings damaged due to any sawing or sealing of joints in the hot mix asphalt concrete overlay (resurfacing), and replace all existing pavement reflectors that have been marred by striping or marking material as a result of improperly located traffic stripes or traffic markings

## SECTION 612 - SIGNS

### 612.03.02 Type GA Breakaway and Non-Breakaway Support Guide Signs

THE SUBPART HEADING IS CHANGED TO:

### 612.03.02 Type GA Breakaway Support Guide Signs

#### C. Constructing Pedestals

THE SUBPART IS CHANGED TO:

Place reinforcement steel as specified in 504.03.01 before placing the concrete. Ensure that concrete placement complies with the limitations as specified in 504.03.02.C. Place concrete as specified in 504.03.02.D. Cure concrete as specified in 504.03.02.F.

#### D. Erecting Posts

THE SUBPART IS CHANGED TO:

Erect posts as specified in 512.03.01.G.

THE FOLLOWING IS ADDED:

**F. Constructing Anchor, Hinge, Bracket and Coupling Assemblies.** At least 10 days before beginning the work, submit the manufacturer's installation guide and installer's certification to the RE.

Ensure that the installer is certified by the manufacturer.

Ensure that the manufacturer's representative is present during the foundation pour and the installation of the first sign. Install anchor, hinge, bracket and coupling assemblies according to the manufacturer's recommendations. The RE may require the system manufacturer's representative to be present at all times during the installation to provide on-site technical support.

THE SUBPART IS ADDED:

### 612.03.03 Relocate Signs

This item of work will consist of the relocation and resetting of existing signs as directed by the Engineer. Existing signs to be relocated or reset shall be carefully cataloged, removed without damage, stored and reinstalled as directed by Engineer. The Contractor shall to the greatest extent practical salvage and reuse existing sign posts. Signs and sign posts damaged shall be replaced at no cost to the County. This work shall also include setting of sign posts in concrete to the satisfaction of the Engineer.

### 612.04 Measurement and Payment

THE FOLLOWING IS ADDED:

Payment for Guide Sign Supports of various types and associated appurtenances shall be paid under the bid pay item REGULATORY AND WARNING SIGNS.



THE FOLLOWING SECTION IS ADDED:

## SECTION 612A - STREET SIGNS

### 612A.01 Description

This section describes the requirements for street signs within the project limits. The project will include salvaging existing signs supports and placement of new bracket and signs or the complete replacement of existing street signs.

All signs shall conform to the 2003 Manual of Uniform Traffic Control Devices; and the U.S.D.O.T. Manual of Standard Highway Signs.

### 612A.02 Materials

All sign materials shall conform to material specifications of Section 612 of the NJDOT Standard Specifications for Road and Bridge Construction as amended as follows:

*All signs shall be manufactured with, or incorporate diamond grade material.* Alternate material meeting the requirements of ASTM TYPE 11 RETROREFLECTIVE SHEETING may be used, only when approved by the Engineer. All signs shall be aluminum, with a thickness of 0.100 inches.

Street Sign shall be approximately 10 inches in height and up to 36 inches in length depending on the amount of letters in each street name. Each sign shall also be double faced. All signs shall be green with white lettering. Six-inch Highway Gothic B font shall be used for all lettering. The street name sign identifying the County road shall be the primary sign, and therefore mounted at the top of the signpost. All top posts shall be 2-inch x 2-inch square, 16 gauge galvanized solid surface steel with a 0.100 minimum wall thickness. All posts shall be a minimum of 8 feet in length, base posts shall be a minimum of 3 feet in length.

### 612A.03 Construction

All sign construction methods shall conform to specifications of Section 612 of the NJDOT Standard Specifications for Road and Bridge Construction as amended as follows:

*All posts & mounting brackets will need approval of the Engineer prior to installation.*

Double-faced signs are designated as Type DF.

*All salvage sign material other than posts shall be delivered to the Union County Bureau of Traffic Safety & Maintenance, at 2325 South Avenue, Scotch Plains, NJ.*

Removal of the existing sign in its entirety, including any concrete footing, and restoration of the existing area, shall be included in the overall unit price bid for the above referenced items. A detailed listing of specific locations where each sign is to be installed is included in these specifications

Ground mounted Street Name Signs with Breakaway Supports shall be installed along the County Roads being resurfaced in the following manner:

- \* At 4-way intersections, install 1 post at the far side of *each* approach (County road only);

- \* At 3-way intersections, install 1 post at the far side of the County road approach, adjacent to the side street.

Accessory Panels - shall include signs, brackets & and other hardware.

Breakaway Signs - The breakaway system shall be installed at least 30 inches below grade. A listing of the signs in question has been provided in these specifications. The list includes street names as required to be identified on the signs & the amount of signs and posts.

**612A.04 Measurement and Payment**

The County will measure and make payment for items as follows:

<i>Item</i>	<i>Pay Unit</i>
STREET NAME SIGN, TYPE DF, BREAKAWAY SUPPORT	SQUARE FOOT
ACCESSORY PANEL, TYPE DF	SQUARE FOOT
RELOCATE SIGN	UNIT

Payment for Street Name Signs, Type DF with Breakaway Supports, and Accessory Panels, Type DF, will be made for the quantity of material actually installed, at the unit price bid per square foot.

Street signs with new breakaway supports shall include all equipment, materials (posts, nuts, bolts, brackets, hardware, etc.) & labor necessary to fabricate, furnish, assemble & erect signs; removal and disposal of all existing street name signs encountered, along the County roads in question; installation of signs in a concrete foundation; and restoration to adjacent areas.

The unit price bid for this item shall include all necessary excavation for the removal of existing signs, restoration, posts & other materials as described above.

**SECTION 651 - WATER**

**651.04 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.

**SECTION 653 - GAS**

**653.04 Measurement and Payment**

THIS SUB-SECTION IS CHANGED AS FOLLOW:

The item *Reset Gas Valve Box* shall not be measured and no separate payment will be made.

## SECTION 702 - TRAFFIC SIGNALS

### 702.03.09 Loop Detectors

THE FOLLOWING IS ADDED:

Loop detectors shall be installed only by certified Contractors qualified to perform this work. Prior to construction, the Contractor shall provide the name(s) of the individual(s) and/or firm that will be performing this work for review and approval by the Engineer. Installation of loop detectors shall only be done in the presence of the Engineer, or his duly appointed representative. Loop detectors shall be saw cut, placed and sealed in the milled surface prior to the new hot mix asphalt concrete surface course being placed.

*Loop inductance readings shall be made prior to sealing the loop trench. In the event the loops are sealed before the inductance readings are made, reviewed and accepted by the Engineer, the Contractor shall reopen the trench and adjust the number of turns to achieve the required inductance. This shall be done without additional compensation.*

Loop detector wire shall conform to IMSA Specifications No. 51-5-1984 and the size shall be No. 14 AWG. When installing loop wire in the conduit stub through the curb, its location shall be marked by Saw-cutting the curb at its actual location.

THE FOLLOWING SUBPART IS ADDED:

### 702.03.13 Video Detection System with Modem

One video detector assembly shall be installed opposite each intersection approach under this contract. This item shall consist of furnishing and installing the video detector assembly on a traffic signal mast arm, mounting hardware, the drilling of the traffic signal mast arm, installing the grommet, video pigtail cable with round locking-type military style connector from the video detector assembly to the base of the traffic signal assembly and be incorporated into a video detection system as described hereafter. All assemblies shall be enclosed in weather tight aluminum housing. All mounting brackets and hardware shall be finished to match the color of the single member arm and shaft assemblies upon which they will be mounted.

### 702.04 MEASUREMENT AND PAYMENT

THE FOLLOWING IS ADDED AT THE END OF THE SUBSECTION:

The unit price for Image Detector shall include providing wiring connections to the controller cabinet, using cable supplied by the manufacture. No separate payment for this wire will be made. Payment for this item will be made on a unit basis per intersection furnished and installed at the unit price bid for the items IMAGE DETECTOR in the bidding sheets. Separate payment will not be made for image detection controller units installed in the signal control cabinet. All costs thereof shall be included in the unit price bid for IMAGE DETECTOR.

## 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:

<b>Table 902.02.02-2 Additional Fine Aggregate Requirements for HMA</b>		
<b>Tests</b>	<b>Test Method</b>	<b>Minimum Percent</b>
<b>Uncompacted Void Content of Fine Aggregate</b>	AASHTO T 304, Method A	45
<b>Sand Equivalent</b>	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 2 specimens to verify that 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 that 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 that 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 that 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 4 percent air voids and 75 gyrations of the Superpave gyratory compactor.

TABLE 902.05.02-2 IS CHANGED TO:

Property	Production Control Tolerances	Requirement
Air Voids	±1%	4.0%
Voids in Mineral Aggregate (VMA)	—	17.0% minimum
VCA <sub>mix</sub>	—	Less than VCA <sub>dry</sub>
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 that 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, VCmix, VCdry, 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 that 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 Chemical Admixtures.**

#### **903.02.05 Corrosion Inhibitor Admixture**

THE FOLLOWING IS ADDED:

Corrosion inhibitor products that are to be used in the fabrication of concrete items shall be as follows:

#### **903.07 Quick-Setting Patch Materials**

Use quick-setting patch material that is listed on the qualified products list (QPL) and is ready for mixing according to the manufacturer's recommendations. Follow the manufacturer's recommendations regarding the required water demand for the patching material. Use patching material that is concrete gray in color and contains no calcium chloride or other ingredients that cause corrosion to steel reinforcement. If adding coarse aggregate to patching material, use broken stone conforming to 901.03.01. Ensure that the material is quick-setting for use in concrete patching where fast setting, rapid strength gain, non-shrink, and high bond strength characteristics are needed. The materials engineer (ME) will add products to the QPL only after testing and evaluation in the field, after service for 1 year.

The classifications for quick-setting patch materials are as follows:

1. **Type 1A.** Suitable for use above water. Type 1A products have manufacturer specified mix proportions with aggregates that would preclude it from being classified as a Type 1. The ME will approve the mix proportions before adding the material to the QPL. The manufacturer shall provide mixing proportions, including the required type and size of aggregate and the proportion of patching material, aggregate/sand, and water. At least 10 days before the start of placement, propose aggregates for verification trial batching based on the manufacturer's pre-approved proportions. The ME will verify that the proposed quick setting patch mixture meets the required physical properties.
2. **Type 1B.** Suitable for use above water. Type 1B products are those products that have course aggregate, sand, or both pre-packaged with the cementitious material. The ME will test this material, including a field trial, prior to adding it to the QPL. The manufacturer shall designate the amount of aggregate and shall maintain the total aggregate within  $\pm 10$  percent of this stated amount. The ME will randomly test the aggregate to ensure that the overall percentage of aggregate is within  $\pm 10$  percent of the total and that the gradation on individual sieves does not vary more than  $\pm 10$  percent from the gradation of the originally approved sample. The manufacturer shall use an aggregate supplier that is listed on the QPL. The ME will disapprove quick-setting patch material that fails to comply with the aggregate consistency requirements. If the manufacturer makes any changes to the formulation, the ME will require that the material be resubmitted for approval. Do not add additional aggregate in the field.

If liquid activator, other additives, adhesive, or bonding agents are integral to the performance of the patch material, the manufacturer shall provide the material so that 1 package of additive, activator, adhesive or bonding agent is required for 1 package of patch material. Mix patch material as specified in 903.03.04.

Use quick setting patch material that meets the requirements in Table 903.07-1 when tested according to NJDOT C-2. Mix quick-setting patch according to the manufacturer's recommendations.

**Table 903.07-1 Requirements for Quick Setting Patch Material  
Type 1A and 1B**

<b>Bond Strength</b>	
7-day (minimum)	1000 psi
28-day (minimum)	2000 psi
<b>Expansion/ Shrinkage</b>	
Cured in Water (maximum)	+0.20%
Cured in Air (maximum)	-0.20%
Difference (maximum)	0.30%
<b>Durability</b>	
Retained strength at 50 cycles (minimum)	90%
Visual condition rating at 50 cycles (maximum)	3
Permeability (maximum chloride content at 2 inches)	2.5 lbs/yd <sup>3</sup>
<b>Compressive Strength</b>	
3-hour (minimum)	2000 psi
1-day (minimum)	3000 psi
7-day (minimum)	4000 psi
28-day (minimum)	4500 psi
Time of Set in minutes (minimum)	15

THE FOLLOWING IS ADDED:

**903.11 Membrane Waterproofing**

As per the Manufacturers Specifications

(NOT FOR USE WITH COLORED CONCRETE PRODUCTS)

Calcium Nitrite Based as produced by  
W.R. Grace & Company  
2133 85<sup>th</sup> Street  
North Bergen, NJ 07047  
Telephone: 201-869-5220

Calcium Nitrite Based as produced by  
The Euclid Chemical Company  
5 Joanna Court  
East Brunswick, NJ 08816  
Telephone: 732-390-9770

Calcium Nitrite Based as produced by  
Master Builders Inc.  
798 Welsh Road  
Huntingdon Valley, PA 19006  
Telephone: 215-938-7501

Calcium Nitrite Based as produced by  
SIKA Corporation  
201 Polito Avenue  
Lyndhurst, NJ 07071  
Telephone: 800 - 933 - SIKA (7452)

Calcium Nitrite Based as produced by  
Great Eastern Technologies, LLC  
"Chem Strong CI"  
515 Route 528  
P. O. Box 3015  
Lakewood, NJ 08701  
Telephone: 888 - 452 - 9348

**SECTION 911 – SIGNS, SIGN SUPPORTS, AND DELINEATORS**

**911.02.02 Breakaway Sign Supports for Ground Mounted Signs**

THE ENTIRE SUBPART IS CHANGED TO:

Fabricate and construct breakaway sign supports for ground mounted signs using materials conforming to the requirements in Table 911.02.02-1.

<b>Table 911.02.02-1 Materials for Breakaway Sign Supports</b>			
<b>Item</b>	<b>Test Method</b>	<b>Type or Grade</b>	<b>Galvanizing</b>
Aluminum Materials (other than bracket)	911.01.01		
Bracket	B308	6061-T6	
Structural steel shapes	ASTM A709	Grade 36	ASTM A123
Steel Sheet	ASTM A1011	Grade 36	ASTM A 653
Boits (except special bolt for coupling)	ASTM A325		ASTM A153
Special bolt for coupling	ASTM A449		ASTM A153
Cap Screw	ASTM A307		ASTM A153
Lock Washer	ANSI B18-21-1		ASTM A153
Nut	ASTM A563	Grade DH	ASTM A153
Coupling	AMS 6378 F		ASTM A153
Steel Hinge Plate	AISI 4130		ASTM 123
Anchor Rod	AISI 1045		
Anchor Coil	AISI 1008		
Anchor Washer	908.04		
Anchor Ferrule	908.04		

Submit mill certificates for the component materials.

## SECTION 912 - PAINTING, COATINGS, TRAFFIC STRIPES AND TRAFFIC MARKINGS

### 912.03.01 Epoxy Traffic Stripes

THE SUBPART HEADING IS CHANGED TO:

### 912.03.01 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 that 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 SUBPART HEADING IS CHANGED TO:

### 912.03.02 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 that 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:

<b>Component</b>	<b>Percent by weight</b>
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:

<b>Component</b>	<b>Percent by weight</b>
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.*

**912.03.03 Raised Pavement Markers (RPM)**

THE FOLLOWING SUBSECTION HAS BEEN REPLACED IN ITS ENTIRETY AS FOLLOWS:

**1.0 REQUIREMENTS**

The marker shall meet the following specified requirements:

**1.1 Color**

1.1.1 The marker body shall be produced in black. The color of the retroreflective lens shall be white, yellow, red, or as specified.

**1.2 Dimensions**

1.2.1 The typical dimensions of the marker shall be:

Model	190		194		198	
Height	0.4 in.	(10 mm)	0.52 in.	(13 mm)	0.4 in.	(10 mm)
Width	1.9 in.	(48 mm)			1.65 in.	(42 mm)
Length	3.95 in.	(100 mm)	3.9 in.	(99 mm)	3.95 in.	(100 mm)
Face Angle	30°		35°		30°	
Pad Thickness	.04 in.	(1.0 mm)			.04 in.	(1.0 mm)
Footprint			0.23 in.	(5.8 mm)		

### 1.3 Test Conditions

1.3.1 Unless otherwise specified, all test specimens shall be conditioned for 24 hours at  $73.4^{\circ} \text{ F} \pm 3.6^{\circ} \text{ F}$  ( $23.0^{\circ} \text{ C} \pm 2.0^{\circ} \text{ C}$ )

### 1.4 Type Retroreflectance

1.4.1 Type retroreflectance refers to marker luminance measured using simplified viewing conditions as convenient means of describing uniformity of marker characteristics for quality control purposes when specifying a unique marker type. The white, yellow/amber, red, blue, or green markers shall have initial minimum retroreflectance values specified as the product of Tables 1 and 2 when measured in accordance with ASTM E809. The photometric quantity to be measured is the coefficient of retroreflected luminous intensity ( $R_1$ ), expressed as millicandelas per lux (mcd/lx). One candela per lux equals 10.76 candelas per footcandle.

**Table 1, Minimum  $R_1$  Values**

Entrance angle ( $\beta_2 = \beta_1 = 0^{\circ}$ )	$0^{\circ}$	$\pm 20^{\circ}$
Observation angle:	$.2^{\circ}$	$.2^{\circ}$
Minimum $R_1$ (cd/ftcd)	3.0	1.2
Minimum $R_1$ (mcd/lx)	279	112

**Table 2, Color Multiplying Factors**

Color	White	Yellow/Amber	Red	Blue	Green
Multiplying Factor	1	0.6	0.25	0.1	0.33

**Performance Retroreflectance:** Performance retroreflectance refers to marker luminance as viewed by the driver under standardized road and vehicle conditions. This property is often called "Driver Geometry Retroreflection." Measurement under simulated use conditions ensures that all geometric viewing angles are taken into account during testing, including the rotation angle, which is an important consideration when evaluating markers with prismatic retroreflective lenses. The markers shall have initial minimum retroreflectance values specified as the product of Table 2 and Table 3 when measured in accordance with ASTM E809. The photometric quantity to be

measured is the coefficient of retroreflected luminous intensity ( $R_1$ ), expressed as millicandelas per lux (mcd/lx). One candela per lux equals 10.76 candelas per footcandle.

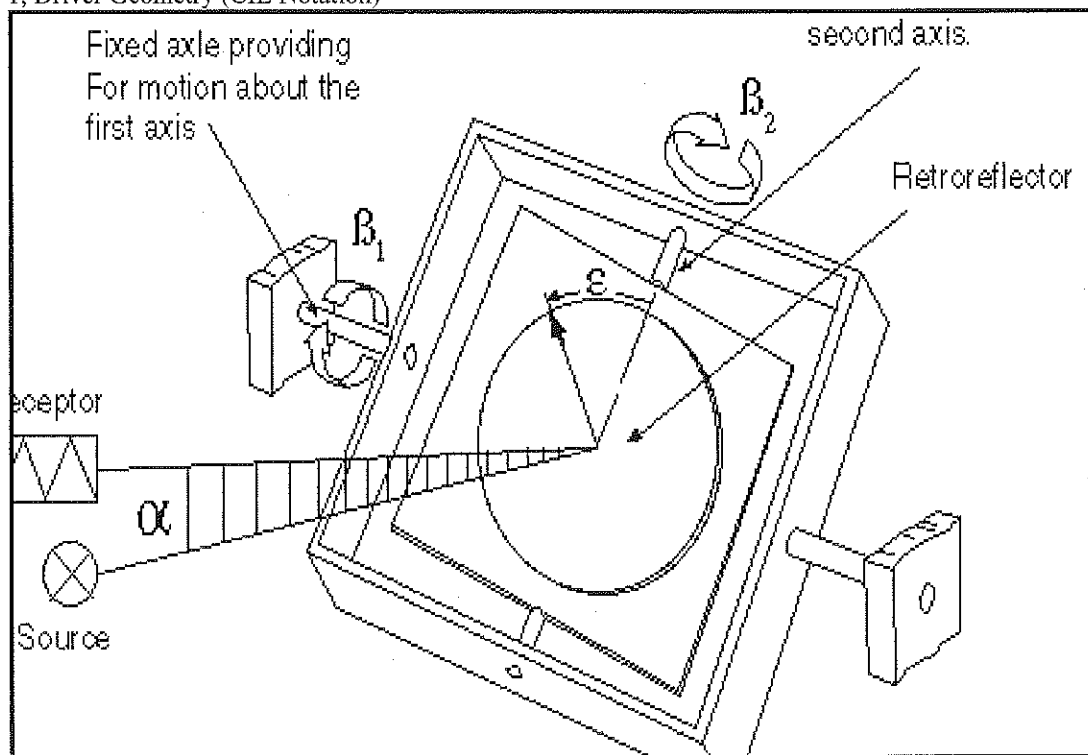
In Table 3, the angles referenced correspond to the entrance, rotation, and observation geometry for a driver in a standard vehicle with pavement markers placed on a lane line to the left of the vehicle. The measured value at each simulated distance is the sum of the marker coefficient of retroreflected luminous intensity from when illuminated by the simulated left and right headlights. Test set up and measurement geometry is illustrated in Figure 1.

Table 3,  $R_1$  "Driver Geometry"

Simulated Distance		Headlight	Observation Angle ( $\alpha$ ) (degrees)	Rotation Angle ( $\epsilon$ ) (degrees)	Entrance Angle (b)		Minimum $R_1$ (mcd/lux) left + right
Feet	Meters				$\beta_1$	$\beta_2$	
100	30	Left	0.95	19	-2.0	-1.6	40
		Right	2.91	-72	4.6	-2.9	
300	91	Left	0.35	24	-0.7	-0.5	350
		Right	0.90	-69	1.4	-1.0	
500	152	Left	0.22	24	-0.4	-0.3	600
		Right	0.53	-68	0.8	-0.6	

Note: In laboratory testing Entrance Angles  $\beta_1$  and  $\beta_2$  are set to equal  $0^\circ$  and Left/Right Rotation Angles  $\epsilon$  are set to  $20^\circ$ - $70^\circ$  as an approximation with little loss of accuracy.

Figure 1, Driver Geometry (CIE Notation)





## 1.5 Retroreflected Color

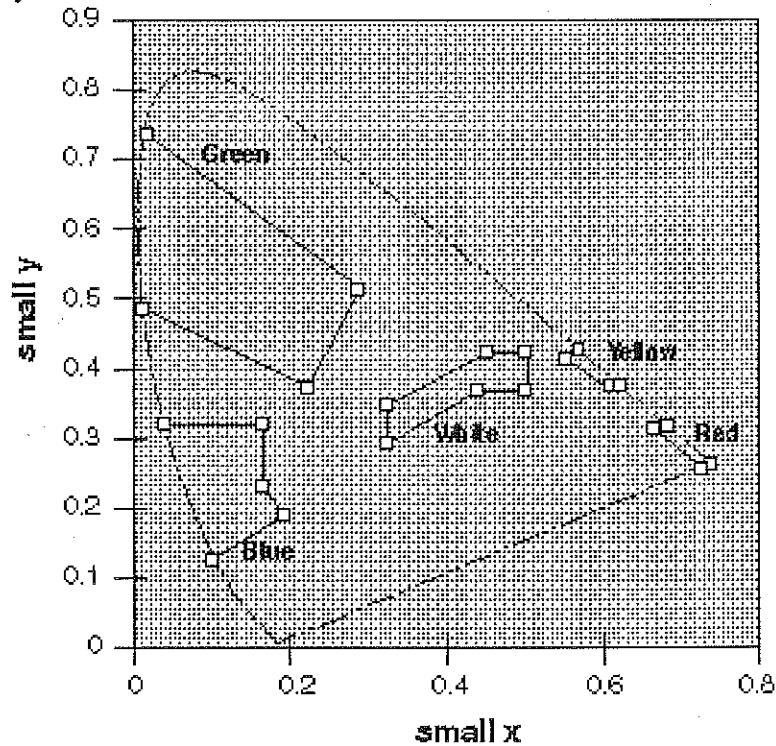
1.5.1 The retroreflected color of the markers shall lie within the respective retroreflected color gamut coordinates, plotted on the 1931 CIE Chromaticity ( $x, y$ ) diagram, described in Table 3 and Figure 1 when tested in accordance with ASTM E811 using CIE Illuminant Source A and viewing conditions of  $0.2^\circ$  observation angle,  $0^\circ$  entrance angle. The source and receptor angular apertures shall each be 6 minutes of arc.

Table 4, Retroreflected Color Gamut Coordinates

Point Number	White		Yellow		Red		Green		Blue	
	x	y	x	y	x	y	x	y	x	y
1	0.310	0.348	0.545	0.424	0.650	0.330	0.009	0.733	0.039	0.320
2	0.453	0.440	0.599	0.439	0.668	0.330	0.288	0.520	0.160	0.320
3	0.500	0.440	0.609	0.390	0.734	0.265	0.209	0.395	0.160	0.240
4	0.500	0.380	0.597	0.390	0.721	0.259	0.012	0.494	0.183	0.218
5	0.440	0.380	-	-	-	-	-	-	0.088	0.142
6	0.310	0.283	-	-	-	-	-	-	-	-

If two points lie on the spectrum locus line, they must not be connected by a straight line, but rather should, in this case, be joined by the boundary of the spectrum locus.

Figure 1, CIE 1931 Chromaticity Chart



**1.6 Adhesive Bond Strength**

1.6.1 The adhesive bond strength for replacement markers (not installed in holders) will not be less than .08 MPa (12 psi) when measured in accordance with ASTM D4383.

**1.7 Compressive Strength**

1.7.1 The marker shall support a load of 2721kg (6,000 lbs) without breakage or significant deformation of the marker when tested in accordance with ASTM D4383. It is understood that significant deformation of the marker shall be 0.13 in. (3.2 mm).

**a. Scratch Resistance**

1.8.1 The marker shall meet ASTM D 4383-96 scratch resistance test. The coefficient of retroreflected luminous intensity of the markers shall be measured after subjecting the entire lens surface to 100 rubs with a 1 in. (25.4 mm) diameter flat pad of No. 3 coarse steel wool conforming to Federal Specification FF-W-1825A. A load of  $50 \pm 0.5$  lb. ( $22 \pm 2.0$  kg.) is applied to the steel wool pad during testing. The markers shall meet the minimum retroreflective values specified as the product of values shown in Tables 1&2 and Tables 3&2.

**1.9 Abrasion Resistance**

1.9.1 The coefficient of retroreflected luminous intensity of the markers shall be measured after subjecting the entire lens surface to 100 grams per square centimeter of falling silica carbide per ASTM D968. The markers shall meet the minimum retroreflective values specified as the product of values shown in Tables 1&2 and Tables 3&2. Note: the marker will require indexing across the test plate to ensure all areas of the lens are subjected to the falling silica carbide.

**a. Temperature Resistance**

2.0.1 The marker shall comply with the initial minimum brightness requirements as specified as the product of values shown in Tables 1&2 after conditioning for 12 hours at  $145^{\circ}\text{F} \pm 5^{\circ}\text{F}$  ( $62.7^{\circ}\text{C} \pm 2.5^{\circ}\text{C}$ ).

**b. Impact Resistance**

2.1.1 The marker shall pass both Level 1 and Level 2 tests for meeting the high performance impact resistance standard to insure a long life marker.

2.1.1.1 Level 1 Impact Test: Standard Specification. The marker shall meet ASTM D4383-96 impact resistance test minimum requirement.

2.1.1.2 Level 2 Impact Test: Performance Specification.

The marker body shall display no cracking or breakage outside the impact area when tested according to ASTM D2444 Tup A, using a 1000 gm weight from a height of 1 meter. The marker shall be positioned in such a way that the Tup strikes top of the marker.

The marker lens shall display no cracking outside the impact area greater than 1/4" (0.635 cm) when tested according to ASTM D2444 Tup A, using a 1000 gm weight from a height of 1 meter. The marker shall be placed in a fixture designed to hold the marker lens horizontal and positioned such that the TUP strikes the center of the lens.

**2.2 Resistance to Penetration of Water**

- 2.2.1 The markers shall be conditioned for 10 minutes at 145°F ± 5°F (62.7°C ± 2.5°C) and then immediately submerged in a water bath at 70°F ± 5°F (21°C ± 2.5°C) for 10 minutes. The markers should then be removed from the water bath, wiped dry with a soft cloth, visually inspected for penetration of water behind the lens, and measured for reflectivity in accordance with ASTM E809. The markers shall meet the initial minimum retroreflectance specified as the product of values shown values in Tables 1 & 2.

**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 that the color matches FED-STD-595B color chip No. 33538 for yellow and No. 37886 for white. Ensure that 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 that 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  $14 \pm 0.2$  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 that 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 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 that 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.

## SECTION 1108 - DETECTABLE WARNING SURFACES

### 1108.1 General.

Detectable warnings shall consist of a surface of truncated domes aligned in a square grid pattern and shall comply with 1108.

#### 1108.1.1 Dome Size.

Truncated domes in a detectable warning surface shall have a base diameter of 0.9 inches (23 mm) minimum to 1.4 inches (36 mm) maximum, a top diameter of 50% of the base diameter minimum to 65% of the base diameter maximum, and a height of 0.2 inches (5 mm).

#### 1108.1.2 Dome Spacing.

Truncated domes in a detectable warning surface shall have a center-to-center spacing of 1.6 inches (41 mm) minimum and 2.4 inches (61 mm) maximum, and a base-to-base spacing of 0.65 inches (16 mm) minimum, measured between the most adjacent domes on square grid.

#### 1108.1.3 Contrast.

Detectable warning surfaces shall contrast visually with adjacent walking surfaces either light on dark or dark-on-light.

#### 1108.1.4 Size.

Detectable warning surfaces shall extend 24 inches (610 mm) minimum in the direction of travel and the full width of the curb ramp, landing, or blended transition.

#### 1108.2.1 Curb Ramps and Blended Transitions.

The detectable warning surface shall be located so that the edge nearest the curb line is 6 inches (150 mm) minimum and 8 inches (205 mm) maximum from the curb line.

THE FOLLOWING IS ADDED TO THIS SECTION:

1) Material - The DWS panel is to be a homogenous glass and carbon composite which is colorfast and UC stable. Truncated domes are to be fiberglass reinforced. The DWS panel color is to be uniform throughout and shall not rely on any type of paint coating to achieve color stability.

2) Physical Characteristics:

Compressive Strength	28,900 psi	ASTM D 695
Flexural Strength	29,300 psi	ASTM D 790
Water Absorption	.07%	ASTM D 570
Slip Resistance	1.18 Dry/1.05 Wet	ASTM C 1028
Flame Spread Index	20	ASTM E 84
Salt Spray	No Change (200 hours)	ASTM B 117
Chemical Stain Testing	No Deterioration	ASTM 1308
Abrasion Resistance	549	ASTM C 501
Accelerated Weathering	Delta E < 5.0 (2,000 hours)	ASTM G 155

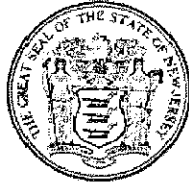
Tensile Strength	11,600 psi	ASTM D 638
Adhesion to Concrete (20° -180°)	No Delamination or Degradation	ASTM C 903
Freeze/Thaw/Heat	No Disintegration	ASTM C 1026

## **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.

**[http://lwd.dol.state.nj.us/labor/wagehour/wagerate/prevailing\\_wage\\_determinations.html](http://lwd.dol.state.nj.us/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](http://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

	03/01/14
Journeyman (Mechanic)	W34.93 B19.39 T54.32

Expiration Date: 02/28/2015

Craft: Air Conditioning & Refrigeration - Service and Repair

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	As Shown	Mo. 1-3	Mo. 4-12	2nd Year	3rd Year	4th Year	5th Year		Wage = %	of Jnymn
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	Wage

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 in excess of 8 per day, hours before or after 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.

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**

	01/09/15
Foreman	W45.00 B40.02 T85.02
General Foreman	W47.00 B41.00 T88.00
Journeyman	W41.00 B38.42 T79.42

Expiration Date: 12/31/2015

**Craft: Boilermaker                      APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	65%	70%	75%	80%	85%	90%	95%			
1000 Hours										
Benefit =	32.33	33.20	34.08	34.94	35.82	36.69	37.55			

**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

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

**County - UNION**

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.

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

	01/09/15
Foreman	W30.29 B16.17 T46.46
General Foreman	W30.79 B16.17 T46.96
Mechanic	W28.79 B16.17 T44.96

Expiration Date: 12/31/2015

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 \$20,000.00).

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**

	11/01/14	05/01/15	11/01/15
Deputy Foreman	W41.25	W0.00	W0.00
	B29.01	B0.00	B0.00
	T70.26	T71.01	T71.76
Foreman	W44.25	W0.00	W0.00
	B29.01	B0.00	B0.00
	T73.26	T74.01	T74.76
Journeyman	W38.25	W0.00	W0.00
	B29.01	B0.00	B0.00
	T67.26	T68.01	T68.76

Expiration Date: 04/30/2016

Craft: Bricklayer, Stone Mason

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	40%	50%	55%	60%	65%	70%	75%	80%		
6 Months										
Benefits	3.72	4.65	5.12	5.58	19.21	20.47	21.74	23.01		

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 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%, inclusive of benefits, 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%, inclusive of benefits, and the third shift shall receive the regular rate plus 20%, 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**

	11/01/14	05/01/15	11/01/15
Foreman	W50.30	W0.00	W0.00
	B28.16	B0.00	B0.00
	T78.46	T79.17	T80.42
Journeyman	W43.74	W0.00	W0.00
	B24.49	B0.00	B0.00
	T68.23	T69.48	T70.73

Expiration Date: 04/30/2016

**Craft: Carpenter                      APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	6 Months	40%	45%	50%	55%	60%	65%	70%	75%	85%
Benefit	56% of	Appren	tice	Wage	Rate		for all	intervals		

Ratio of Apprentices to Journeymen - 1:4

**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

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

County - UNION

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**

	11/01/14
Foreman	W50.30 B28.16 T78.46
Journeyman	W43.74 B24.49 T68.23

Expiration Date: 04/30/2015

**Craft: Carpenter - Resilient Flooring**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	40%	45%	50%	55%	60%	65%	70%	75%	85%	95%
6 Months	40%	45%	50%	55%	60%	65%	70%	75%	85%	95%
Benefit	56%	of	Appren	tice	Wage	Rate		for all	intervals	

**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

Expiration Date:

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: Dockbuilder

**PREVAILING WAGE RATE**

	11/14/14
Foreman	W48.99 B41.57 T90.56
Foreman (Concrete Form Work)	W48.99 B33.73 T82.72
Journeyman	W42.60 B41.57 T84.17
Journeyman (Concrete Form Work)	W42.60 B33.73 T76.33

Expiration Date: 04/30/2015

Craft: Dockbuilder

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	Yearly	17.04	21.30	27.69	34.08					
Benefit	28.42	for all	intervals		Concrete	Form Work	Only Ben.	= 23.03	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**

**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.

**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

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

County - UNION

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**

	05/08/14
Foreman	W41.80 B21.60 T63.40
General Foreman	W43.70 B21.60 T65.30
Journeyman	W38.00 B21.60 T59.60

Expiration Date: 04/30/2015

Craft: Drywall Finisher

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	30%	40%	50%	60%	70%	75%	80%	85%	90%	
4 Months										
Benefits	Intervals	1 to 3 =	8.85	Intervals	4 to 6 =	11.28	Intervals	7 to 9 =	14.45	

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**

	06/02/14
Cable Splicer	W56.29 B32.17 T88.46
Foreman	W57.31 B32.76 T90.07
Journeyman	W51.17 B29.25 T80.42

Expiration Date: 05/31/2015

**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

	12/04/14
Master Technician/General Foreman	W49.84 B28.49 T78.33
Senior Technician/Lead Foreman (21-30 Workers on Job)	W45.62 B26.08 T71.70
Technician A/Foreman (11-20 Workers on Job)	W43.71 B24.99 T68.70
Technician B/Working Foreman (4-10 Workers on Job)	W41.79 B23.89 T65.68
Technician C/Journeyman (1-3 Workers on Job)	W38.34 B21.92 T60.26

Expiration Date: 11/01/2015

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

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	19.20	20.48	22.62	25.18	28.16	30.72	33.71	36.70		
Benefits	7.96	8.49	9.38	10.44	11.68	12.74	13.98	15.22		

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	17.07	18.35	20.48	23.04	26.03	28.59	31.58	34.56		
Benefits	7.08	7.61	8.49	9.56	10.79	11.86	13.09	14.33		

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:

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

County - UNION

- 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.

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

Expiration Date:

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**

	06/02/14
Cable Splicer	W56.56 B31.92 T88.48
Certified Welder	W53.99 B30.46 T84.45
Equipment Operator	W51.42 B29.01 T80.43
Foreman (1-10 Journeyman workers on job)	W57.59 B32.49 T90.08
Foreman (11-20 Journeyman workers on job)	W59.13 B33.37 T92.50
General Foreman (21-30 Journeyman workers on job)	W60.67 B34.23 T94.90
General Foreman (31-60 Journeyman workers on job)	W65.82 B37.13 T102.95
Groundman	W30.85 B17.41 T48.26
Journeyman Lineman/Technician	W51.42 B29.01 T80.43
Sub-Foreman	W57.59 B32.49 T90.08

Expiration Date: 06/01/2015

Craft: Electrician- Outside Commercial

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	60%	65%	70%	75%	80%	85%	90%			
1000 Hours										
Benefits	55.95% of	Journey	man	wage	+ \$.01					

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

County - UNION

Craft: Electrician- Outside Commercial

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE AS OF 6-2-14:

INTERVAL	PERIOD AND RATES							
1000 Hours	60%	65%	70%	75%	80%	85%	90%	
Benefits	56.41% of Journeyman wage + \$.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 4 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:

4-10 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

Expiration Date:

Craft: Electrician-Utility Work (North)

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
6 Months	60%	65%	70%	75%	80%	85%	90%			
Benefits	62.5% 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.

**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

Expiration Date:

Craft: Electrician-Utility Work (South)

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	26.27	28.46	30.65	32.84	35.03	37.22	39.41			
Benefits	21.83	23.08	24.32	25.57	26.81	28.06	29.32			

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**

	03/20/14
Journeyman	W58.23 B29.76 T87.99

Expiration Date: 03/16/2015

Craft: Elevator Constructor

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
Yearly	26.06	32.03	37.85	43.67						
Benefits	25.76	26.16	26.96	27.76						

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**

	03/20/14
Journeyman	W46.00 B29.61 T75.61

Expiration Date: 03/16/2015

Craft: Elevator Modernization & Service

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
Yearly	26.06	25.30	29.90	34.50						
Benefits	25.68	26.08	26.86	27.65						

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**

	06/03/14	05/01/15	05/01/16
Foreman	W45.61 B22.04 T67.65	W0.00 B0.00 T69.15	W0.00 B0.00 T70.65
General Foreman	W47.61 B22.28 T69.89	W0.00 B0.00 T71.39	W0.00 B0.00 T72.89
Journeyman	W41.61 B21.56 T63.17	W0.00 B0.00 T64.67	W0.00 B0.00 T66.17

Expiration Date: 04/30/2017

Craft: Glazier

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	30%	40%	50%	60%	70%	75%	80%	85%	90%	
4 Months										
Benefits	Intervals	1 to 3 =	6.51	Intervals	4 to 6 =	9.33	Intervals	7 to 9 =	11.67	

Ratio of Apprentices to Journeymen - 1:4

Craft: Glazier

**COMMENTS/NOTES**

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAMS OF 5-1-14:

INTERVAL	PERIOD AND RATES							
6 Months	50%	55%	60%	65%	70%	75%	80%	90%
Benefits	8.10	8.10	10.34	10.34	11.51	11.51	14.62	14.62

Hazard/Height Pay: +\$1.00 per hour

**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**

	09/19/14
Foreman	W51.52 B28.42 T79.94
General Foreman	W54.07 B29.53 T83.60
Journeyman	W50.24 B27.86 T78.10

Expiration Date: 09/18/2015

Craft: Heat & Frost Insulator

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	Yearly	23.27	27.59	33.35	39.16					
Benefits	16.96	20.03	21.99	23.76						

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**

	09/19/14
Asbestos Worker/Firestop	W25.68 B9.25 T34.93
Foreman	W51.52 B28.42 T79.94

Expiration Date: 09/18/2015

**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**

	07/01/14
Rod Foreman	W40.74 B41.52 T82.26
Rod Journeyman	W37.74 B41.52 T79.26
Structural Foreman	W43.79 B41.52 T85.31
Structural Journeyman	W40.79 B41.52 T82.31

Expiration Date: 06/30/2015

Craft: Ironworker

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	50%	60%		Yearly	70%	80%	90%			
6 Months										

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 5 consecutive days, the rate shall be paid at the regular rate and benefit rate, with no wage premium included. When an irregular shift is established for less than 5 days, the rate shall be paid at the regular rate plus 15%.

**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**

	12/17/14
Foreman	W38.00 B16.20 T54.20
Journeyman (Handler)	W36.00 B16.20 T52.20

Expiration Date: 07/31/2015

Craft: Laborer - Asbestos & Hazardous Waste Removal

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
Yearly	27.96	28.66	29.72	31.84						
Benefits	16.15	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 between 6:00 AM and 6:00 PM.

**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.
- When the owner (Public Body) mandates that work is to be performed on Sunday, those hours may be worked at straight time, up to 8 hours per day, up to 40 hours per week.
- 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.



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

**County - UNION**

- 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 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. 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, 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: Laborer - Heavy & General

**PREVAILING WAGE RATE**

Rates are located in the  
"Statewide" rate package

Expiration Date:

Craft: Laborer - Heavy & General

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
1000 Hours	60%	70%	80%	90%						
Benefit	16.28	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**

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: Millwright

**PREVAILING WAGE RATE**

	11/01/14	05/01/15	11/01/15
Foreman	W51.13	W0.00	W0.00
	B28.69	B0.00	B0.00
	T79.82	T80.59	T81.84
Journeyman	W44.46	W0.00	W0.00
	B24.95	B0.00	B0.00
	T69.41	T70.70	T71.95

Expiration Date: 04/30/2016

Craft: Millwright

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	40%	45%	50%	55%	60%	65%	70%	75%	85%	95%
6 Months										
Benefits	56% of	Appren	tice	Wage	Rate	for all	intervals	+.05		

Ratio of Apprentices to Journeymen - 1:4

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

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

County - UNION

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

**PREVAILING WAGE RATE**

Rates are located in the  
"Statewide" rate package

Expiration Date:

Craft: Operating Engineer

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
Yearly	60%	70%	80%	90%						

Ratio of Apprentices to Journeymen - \*

\* 1 apprentice for each piece of heavy equipment. At least 10 pieces of heavy equipment or a minimum of 5 Operating Engineers must be on site.

Craft: Operating Engineer

**COMMENTS/NOTES**

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

**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

Expiration Date:

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**

	05/15/14
Foreman	W55.68 B24.12 T79.80
General Foreman	W58.18 B24.12 T82.30
Journeyman	W50.68 B24.12 T74.80

Expiration Date: 04/30/2015

Craft: Painter - Bridges

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
6 Months	50%	55%			60%	65%		75%	85%	
Benefits	Intervals	1 to 2 =	8.88	Intervals	3 to 4 =	10.56	Intervals	5 to 6 =	12.23	

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**

	07/25/14
Foreman (Charge Person)	W35.45 B13.80 T49.25
Helper (1st Year)	W26.88 B13.71 T40.59
Helper (2nd Year)	W28.48 B13.74 T42.22
Helper (3rd Year)	W30.62 B13.75 T44.37
Journeyman	W34.95 B13.80 T48.75

Expiration Date: 06/30/2015

**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**

	07/11/14
Foreman	W40.90 B21.34 T62.24
General Foreman	W44.67 B21.34 T66.01
Journeyman	W37.22 B21.34 T58.56

Expiration Date: 04/30/2015

Craft: Painter - New Construction

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	30%	40%	50%	60%	70%	75%	80%	85%	90%	
4 Months										
Benefits	Intervals	1 to 3 =	8.00	Intervals	4 to 6 =	10.00	Intervals	7 to 9 =	11.00	

Ratio of Apprentices to Journeymen - 1:4

Craft: Painter - New Construction

**COMMENTS/NOTES**

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM ON 5-1-14:

INTERVAL	PERIOD AND RATES								
6 Months	40%	45%	55%	65%	70%	75%	80%	90%	
Benefits	8.00	8.00	10.00	10.00	11.00	11.00	14.00	14.00	

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

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

County - UNION

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

	05/15/14
Journeyman	W31.37 B22.42 T53.79

Expiration Date: 04/30/2015

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 new tanks and structural steel only.

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..

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 and Tanks (New Construction)**

**PREVAILING WAGE RATE**

	05/15/14
Foreman	W44.21 B22.42 T66.63
General Foreman	W46.71 B22.42 T69.13
Journeyman	W39.21 B22.42 T61.63

Expiration Date: 04/30/2015

**Craft: Painter- Structural Steel and Tanks (New Construction)**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	SEE	PAINTER	BRIDGES							

**Craft: Painter- Structural Steel and Tanks (New Construction)**

**COMMENTS/NOTES**

These rates apply to: All work in nuclear plants, on towers, on steeples, on dams, on hangers and open steel whether new or repaint. All new work in refineries, tank farms, water/sewerage treatment facilities and on pipelines, and tanks, including all elevated and water tanks, tank interiors and repaint of ground tanks over sixty (60) feet in height.

**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 and Tanks (Repaint)**

**PREVAILING WAGE RATE**

	05/15/14
Foreman	W35.31 B18.85 T54.16
General Foreman	W37.81 B18.85 T56.66
Journeyman	W30.31 B18.85 T49.16

Expiration Date: 04/30/2015

**Craft: Painter- Structural Steel and Tanks (Repaint)**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	SEE	PAINTER	BRIDGES							

**Craft: Painter- Structural Steel and Tanks (Repaint)**

**COMMENTS/NOTES**

These rates apply to: All repaint work in refineries, tank farms, water/sewerage treatment facilities and on pipelines and repainting of all other tanks.

**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.

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

County - UNION

Craft: Paperhanger - New Construction

PREVAILING WAGE RATE

	07/11/14
Foreman	W41.93 B21.44 T63.37
Journeyman	W38.12 B21.44 T59.56

Expiration Date: 04/30/2015

Craft: Paperhanger - New Construction

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
4 Months	30%	40%	50%	60%	70%	75%	80%	85%	90%	
Benefits	Intervals	1 to 3 =	8.00	Intervals	4 to 6 =	10.00	Intervals	7 to 9 =	11.00	

Ratio of Apprentices to Journeymen - 1:4

Craft: Paperhanger - New Construction

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM ON 5-1-14:

INTERVAL	PERIOD AND RATES								
6 Months	40%	45%	55%	65%	70%	75%	80%	90%	
Benefits	8.00	8.00	10.00	10.00	11.00	11.00	14.00	14.00	

**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**

	07/11/14
Foreman	W32.21 B18.03 T50.24
Journeyman	W29.28 B18.03 T47.31

Expiration Date: 04/30/2015

**Craft: Paperhanger - Renovation**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	SEE	PAPER-	HANGER	NEW	CONSTR UC	TION				

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**

	05/22/14
Foreman	W49.83 B37.22 T87.05
Journeyman	W46.08 B34.42 T80.50

Expiration Date: 04/30/2015

Craft: Pipefitter

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
Yearly	35%	45%	55%	65%	75%					
Benefit	74.5% of	Appren	tice	Wage	Rate + .10	cents				

Ratio of Apprentices to Journeymen - 1:5

Craft: Pipefitter

**COMMENTS/NOTES**

FOR THOSE APPRENTICES REGISTERED PRIOR TO 5-1-10 THE FIFTH YEAR SHALL BE PAID AT 80%.

**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 25% per hour.
- 3rd Shift (11:30 PM-7:00 AM) shall work 7 hours and receive 8 hours pay at the regular rate, plus 30% per hour.

**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.
- 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.

**OVERTIME (Maintenance Work Only):**

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

County - UNION

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

Expiration Date:

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**

	05/01/14	05/01/15
Foreman	W53.31 B30.99 T84.30	W0.00 B0.00 T86.18
General Foreman	W56.76 B30.99 T87.75	W0.00 B0.00 T89.55
Journeyman	W49.36 B30.99 T80.35	W0.00 B0.00 T82.30

Expiration Date: 04/30/2016

**Craft: Plumber                      APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	30%	45%	55%	65%	75%					
Yearly										
Benefits	11.89	17.51	19.04	20.06	22.13					

**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**

**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 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 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 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



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

**County - UNION**

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**

	08/06/12
Foreman	W34.77 B21.52 T56.29
Journeyman	W33.77 B21.52 T55.29

Expiration Date: 05/31/2015

**Craft: Roofer**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	40%	50%	60%	70%	80%	90%				
6 Months										
Benefits	1.10	1.10	19.00	19.00	19.00	19.00				

**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**

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**

	10/02/14
Foreman	W32.03 B27.97 T60.00
Journeyman	W30.78 B27.97 T58.75

Expiration Date: 03/31/2015

Craft: Sheet Metal Sign Installation

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%
1000 hours										
Benefits	9.92	11.10	12.31	13.49	15.07	16.29	17.53	18.75	19.98	21.20

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**

	06/09/14
Foreman	W47.13 B35.84 T82.97
General Foreman	W48.13 B35.84 T83.97
Journeyman	W44.63 B35.84 T80.47

Expiration Date: 05/31/2015

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**

	07/01/14	07/01/15
Foreman	W60.78 B23.87 T84.65	W0.00 B0.00 T86.65
General Foreman	W63.59 B23.87 T87.46	W0.00 B0.00 T89.46
Journeyman	W56.78 B23.87 T80.65	W0.00 B0.00 T82.65

Expiration Date: 06/30/2016

**Craft: Sprinkler Fitter**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
1000 Hours	9.50	11.25	28.39	31.23	34.07	36.91	39.75	42.59	45.42	48.26
Benefits	10.12	10.12	19.87	19.87	19.87	19.87	Intervals	7 to 10	Jourymn	Ben.

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

INTERVAL	PERIOD AND RATES									
1000 hours	14.20	17.03	22.71	25.55	31.23	34.07	39.75	42.59	48.26	51.10
Benefits	10.12	10.12	19.87	19.87	19.87	19.87	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 Thursday, 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 Setter - Mosaic & Terrazzo

**PREVAILING WAGE RATE**

	01/01/15	07/01/15	01/01/16	07/01/16
Grinder or Assistant	W48.61	W49.76	W50.91	W52.06
	B31.79	B31.79	B31.79	B31.79
	T80.40	T81.55	T82.70	T83.85
Mechanic	W50.22	W51.37	W52.52	W53.67
	B31.80	B31.80	B31.80	B31.80
	T82.02	T83.17	T84.32	T85.47

Expiration Date: 12/31/2016

Craft: Tile Setter - Mosaic & Terrazzo

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	50%	55%	65%	70%	75%	85%	90%	95%		
750 Hours										

Ratio of Apprentices to Journeymen - 1:5

Craft: Tile Setter - Mosaic & Terrazzo

**COMMENTS/NOTES**

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**

	12/01/14	05/01/15	11/01/15
Bucket, Utility, Pick-up, Fuel Delivery trucks	W34.85 B31.07 T65.92	W0.00 B0.00 T67.57	W0.00 B0.00 T68.07
Dump truck, Asphalt Distributor, Tack Spreader	W34.85 B31.07 T65.92	W0.00 B0.00 T67.57	W0.00 B0.00 T68.07
Euclid-type vehicles (large, off-road equipment)	W35.00 B31.07 T66.07	W0.00 B0.00 T67.72	W0.00 B0.00 T68.22
Helper on Asphalt Distributor truck	W34.85 B31.07 T65.92	W0.00 B0.00 T67.57	W0.00 B0.00 T68.07
Slurry Seal, Seeding/Fertilizing/ Mulching truck	W34.85 B31.07 T65.92	W0.00 B0.00 T67.57	W0.00 B0.00 T68.07
Straight 3-axle truck	W34.90 B31.07 T65.97	W0.00 B0.00 T67.62	W0.00 B0.00 T68.12
Tractor Trailer (all types)	W35.00 B31.07 T66.07	W0.00 B0.00 T67.72	W0.00 B0.00 T68.22
Vacuum or Vac-All truck (entire unit)	W34.85 B31.07 T65.92	W0.00 B0.00 T67.57	W0.00 B0.00 T68.07
Winch Trailer	W35.10 B31.07 T66.17	W0.00 B0.00 T67.82	W0.00 B0.00 T68.32

Expiration Date: 04/30/2016

**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**

	05/01/12
Driver	W22.90 B10.17 T33.07

Expiration Date: 05/30/2016

**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 Sundays shall be paid at two and one-half times the hourly rate. All hours on 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

Expiration Date:

Craft: Welder

COMMENTS/NOTES

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

# STATEWIDE RATES

TERRITORY  
ENTIRE STATE

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

OPERATING ENGINEERS    Rates Expiration Date : 06/30/2015

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

On all machines, including pile drivers with booms of 100 feet and over (including jib) the Operating Engineer shall receive the regular hourly rate plus: \$1.00 per hour on rigs with 100 foot Boom (including jib) up to 139 feet, and \$2.00 per hour on rigs with 140 foot Boom (including jib) and over. On all hoists where "Cat Head" or "Sheave Point" is 100 feet or more above ground level, the same differential pay shall apply as applicable to booms 100 feet and over.

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, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

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.

TERRITORY  
ENTIRE STATE

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

OPERATING ENGINEERS      Rates Expiration Date : 06/30/2015

Effective Date:	01/28/2015				
	Rate	Fringe	Total	Total	Total
	44.48	29.48	73.96	0.00	0.00
A-Frame					
Backhoe (combination)					
Boom Attachment on loaders (Except pipehook)					
Boring & Drilling Machine					
Brush Chopper, Brush Shredder, Tree Shredder					
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 (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)					
Hydraulic Crane (10 tons & under)					
Hydro-Axe					
Hydro-Blaster					
Jack (screw, air hydraulic, power-operated unit, or console type, Except hand jack or pile load test type)					
Log Skidder					



TERRITORY  
ENTIRE STATE

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

OPERATING ENGINEERS      Rates Expiration Date : 06/30/2015

Effective Date:	01/28/2015				
	Rate	Fringe	Total	Total	Total
	44.48	29.48	73.96	0.00	0.00
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)					
Vacuum Truck					
Whiphammer					
Winch Truck (hoisting)					

TERRITORY  
ENTIRE STATE

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

OPERATING ENGINEERS     Rates Expiration Date : 06/30/2015

Effective Date:	01/28/2015				
	Rate	Fringe	Total	Total	Total
	42.57	29.48	72.05	0.00	0.00

- 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

TERRITORY  
ENTIRE STATE

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

OPERATING ENGINEERS    Rates Expiration Date : 06/30/2015

Effective Date:	01/28/2015				
	Rate	Fringe	Total	Total	Total
	42.57	29.48	72.05	0.00	0.00
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					
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)					
Laddervator					

TERRITORY  
ENTIRE STATE

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

OPERATING ENGINEERS    Rates Expiration Date : 06/30/2015

Effective Date:

01/28/2015

Rate	Fringe	Total	Total	Total
42.57	29.48	72.05	0.00	0.00

Locomotive (Dinky-type)

Maintenance Utility Man

Master Environmental Maintenance Technician

Mechanic

Mixer (Except paving mixers)

Pavement Breaker - maintenance of compressor or hydraulic unit

Pavement Breaker (truck-mounted or small self-propelled  
ride-on type)

Pipe Bending Machine (power)

Pitch Pump

Plaster Pump (regardless of size)

Post Hole Digger (post pounder, auger)

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

Tug Captains

Tug Master (Power Boats)

TERRITORY  
ENTIRE STATE

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

OPERATING ENGINEERS     Rates Expiration Date : 06/30/2015

<b>Effective Date:</b>	<b>01/28/2015</b>				
	Rate	Fringe	Total	Total	Total
	42.57	29.48	72.05	0.00	0.00

Ultra High Pressure Waterjet Cutting Tool System -  
Operator/Maintenance Technician

Vacuum Blasting Machine - Operator/Maintenance Technician

Vibrating Plant (used with unloading)

Welder & Repair Mechanic

<b>Effective Date:</b>	<b>01/28/2015</b>				
	Rate	Fringe	Total	Total	Total
	39.23	29.48	68.71	0.00	0.00

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

<b>Effective Date:</b>	<b>01/28/2015</b>				
	Rate	Fringe	Total	Total	Total
	36.65	29.48	66.13	0.00	0.00

Field Engineer - Rodman or Chainman

<b>Effective Date:</b>	<b>01/28/2015</b>				
	Rate	Fringe	Total	Total	Total
	46.81	29.48	76.29	0.00	0.00

Lead Engineer, Foreman Engineer, Safety Engineer (minimum)

TERRITORY  
ENTIRE STATE

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

OPERATING ENGINEERS     Rates Expiration Date : 06/30/2015

Effective Date:	01/28/2015				
	Rate	Fringe	Total	Total	Total
	46.07	29.48	75.55	0.00	0.00
Autograde Pavement Profiler - Recycle Type (CMI & similar types)					
Autograde Pavement Profiler (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					
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 Communications Engineer					
Helicopter Co-Pilot					
Juntann Pile Driver					
Locomotive (large)					
Mucking Machine					
Pavement & Concrete Breaker (Superhammer & Hoe Ram)					

TERRITORY  
ENTIRE STATE

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

OPERATING ENGINEERS     Rates Expiration Date : 06/30/2015

Effective Date:	01/28/2015			Total	Total
	Rate	Fringe	Total		
	46.07	29.48	75.55	0.00	0.00
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					

TERRITORY  
ENTIRE STATE

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

OPERATING ENGINEERS      Rates Expiration Date : 06/30/2015

<b>Effective Date:</b>	<b>01/28/2015</b>				
	Rate	Fringe	Total	Total	Total
	40.94	29.48	70.42	0.00	0.00

- 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



TERRITORY  
ENTIRE STATE

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

OPERATING ENGINEERS    Rates Expiration Date : 06/30/2015

Effective Date:	01/28/2015				
	Rate	Fringe	Total	Total	Total
	40.94	29.48	70.42	0.00	0.00
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 Date:	01/28/2015				
	Rate	Fringe	Total	Total	Total
	47.89	29.48	77.37	0.00	0.00
Helicopter Pilot/Engineer					

Effective Date:	01/28/2015				
	Rate	Fringe	Total	Total	Total
	49.57	29.48	79.05	0.00	0.00
Cranes, Derricks, Pile Driver (all types), over 100 tons and TOWER CRANE with boom (including jib and/or leads) 140 ft. and over					

Effective Date:	01/28/2015				
	Rate	Fringe	Total	Total	Total
	48.57	29.48	78.05	0.00	0.00
Cranes, Derricks, Pile Driver (all types), over 100 tons and TOWER CRANE with boom (including jib and/or leads) from 100 ft. to 139 ft.					

Effective Date:	01/28/2015				
	Rate	Fringe	Total	Total	Total
	48.07	29.48	77.55	0.00	0.00
Cranes, Derricks, Pile Driver (all types) , under 100 tons with a boom (including jib and/or leads) 140 ft. and over					

TERRITORY  
ENTIRE STATE

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

OPERATING ENGINEERS    Rates Expiration Date : 06/30/2015

<b>Effective Date:</b>	<b>01/28/2015</b>				
	Rate	Fringe	Total	Total	Total
	47.57	29.48	77.05	0.00	0.00

Cranes, Derricks, Pile Driver (all types), over 100 tons and TOWER CRANE with a boom (including jib and/or leads) under 100 ft.

<b>Effective Date:</b>	<b>01/28/2015</b>				
	Rate	Fringe	Total	Total	Total
	47.07	29.48	76.55	0.00	0.00

Cranes, Derricks, Pile Driver (all types), under 100 tons with a boom (including jib and/or leads) from 100 ft. to 139 ft.

TERRITORY  
ENTIRE STATE

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

STRUCTURAL STEEL ERECTION    Rates Expiration Date : 06/30/2015

{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, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

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 Date:

01/28/2015

Rate	Fringe	Total	Total	Total
49.70	29.48	79.18	0.00	0.00

Helicopter Pilot or Engineer

TERRITORY  
ENTIRE STATE

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

STRUCTURAL STEEL ERECTION    Rates Expiration Date : 06/30/2015

Effective Date:	01/28/2015				
	Rate	Fringe	Total	Total	Total
	45.64	29.48	75.12	0.00	0.00
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					

Effective Date:	01/28/2015				
	Rate	Fringe	Total	Total	Total
	42.98	29.48	72.46	0.00	0.00
Aerial Platform Used On Hoists					
Apprentice Engineer/Oiler with Compressor or Welding Machine					
Captain (Power Boats)					
Compressor (2 or 3 in battery)					
Conveyor or Tugger Hoist					
Elevator or House Car					
Fireman					
Forklift					
Generator (2 or 3)					
Maintenance Utility Man					
Tug Master (Power Boats)					
Welding Machines, Gas or Electric Converters on any type-2 or 3 in battery including diesels					

TERRITORY  
ENTIRE STATE

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

STRUCTURAL STEEL ERECTION    Rates Expiration Date : 06/30/2015

Effective Date:	01/28/2015				
	Rate	Fringe	Total	Total	Total
	41.45	29.48	70.93	0.00	0.00
Compressor (Single)					
Generators					
Welding Machines, Gas, Diesel, Or Electric Converters of any type-single					
Welding System, Multiple (Rectifier Transformer Type)					

Effective Date:	01/28/2015				
	Rate	Fringe	Total	Total	Total
	39.69	29.48	69.17	0.00	0.00
Assistant Engineer/Oiler					
Drillers Helper					
Field Engineer - Transit/Instrument Man					
Maintenance Apprentice (Deckhand)					
Maintenance Apprentice (Oiler)					

Effective Date:	01/28/2015				
	Rate	Fringe	Total	Total	Total
	47.26	29.48	76.74	0.00	0.00
Lead Engineer, Foreman Engineer, Safety Engineer (Minimum)					

Effective Date:	01/28/2015				
	Rate	Fringe	Total	Total	Total
	36.65	29.48	66.13	0.00	0.00
Field Engineer - Rodman or Chainman					

Effective Date:	01/28/2015				
	Rate	Fringe	Total	Total	Total
	46.40	29.48	75.88	0.00	0.00
Field Engineer-Chief of Party					

TERRITORY  
ENTIRE STATE

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

**STRUCTURAL STEEL ERECTION** Rates Expiration Date : 06/30/2015

Effective Date: 01/28/2015

Rate	Fringe	Total	Total	Total
51.59	29.48	81.07	0.00	0.00

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) over 100 tons and Tower Cranes.

Effective Date: 01/28/2015

Rate	Fringe	Total	Total	Total
49.93	29.48	79.41	0.00	0.00

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), over 100 tons and Tower Crane.

Effective Date: 01/28/2015

Rate	Fringe	Total	Total	Total
50.09	29.48	79.57	0.00	0.00

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 Date: 01/28/2015

Rate	Fringe	Total	Total	Total
48.43	29.48	77.91	0.00	0.00

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.

Effective Date: 01/28/2015

Rate	Fringe	Total	Total	Total
50.09	29.48	79.57	0.00	0.00

Helicopter Communications Engineer

Helicopter Co-Pilot

TERRITORY  
ENTIRE STATE

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

TEST BORING PRELIMINARY TO CONSTRUCTION-SOUTH/WEST      Rates Expiration Date : 06/30/2015

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Hunterdon, Mercer, Monmouth, Ocean, Salem, Sussex, Warren

On all machines, including pile drivers with booms of 100 feet and over (including jib) the Operating Engineer shall receive the regular hourly rate plus: \$1.00 per hour on rigs with 100 foot Boom (including jib) up to 139 feet, and \$2.00 per hour on rigs with 140 foot Boom (including jib) and over. On all hoists where "Cat Head" or "Sheave Point" is 100 feet or more above ground level, the same differential pay shall apply as applicable to booms 100 feet and over.

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, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

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 Date:

01/28/2015

Rate	Fringe	Total	Total	Total
46.07	29.48	75.55	0.00	0.00

Driller

TERRITORY  
ENTIRE STATE

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

TEST BORING PRELIMINARY TO CONSTRUCTION-SOUTH/WEST    Rates Expiration Date : 06/30/2015

Effective Date:

01/28/2015

Rate	Fringe	Total	Total	Total
39.23	29.48	68.71	0.00	0.00

Driller's Helper



TERRITORY  
ENTIRE STATE

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

FREE AIR TUNNEL JOBS    Rates Expiration Date : 02/28/2015

{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 \$2.50 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

<b>Effective Date:</b>	<b>03/01/2014</b>				
	Rate	Fringe	Total	Total	Total
	38.00	25.28	63.28	0.00	0.00

Walking Boss & Superintendent

<b>Effective Date:</b>	<b>03/01/2014</b>				
	Rate	Fringe	Total	Total	Total
	37.70	25.28	62.98	0.00	0.00

Heading Foreman, Shaft Foreman, Rod Foreman, Electrician Foreman, Rigging Foreman

<b>Effective Date:</b>	<b>03/01/2014</b>				
	Rate	Fringe	Total	Total	Total
	37.20	25.28	62.48	0.00	0.00

Iron Foreman, Caulking Foreman, Form Foreman, Cement Finishing Foreman, Concrete Foreman, Track Foreman, Cleanup Foreman, Grout Foreman



TERRITORY  
ENTIRE STATE

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

DRILL FOR GROUND WATER SUPPLY    Rates Expiration Date : 06/30/2015

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 Date:	01/28/2015				
	Rate	Fringe	Total	Total	Total
	44.82	29.48	74.30	0.00	0.00
Driller					

Effective Date:	01/28/2015				
	Rate	Fringe	Total	Total	Total
	37.98	29.48	67.46	0.00	0.00
Driller's Helper					

TERRITORY  
ENTIRE STATE

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

OPERATING ENGINEERS MARINE-DREDGING    Rates Expiration Date : 09/30/2015

NOTE: 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 Date:**

**10/01/2014**

Rate	Fringe	Total	Total	Total
35.63	12.89	48.52	0.00	0.00

Lead Dredgerman, Operator, Leverman

Licensed Tug Operator (over 1000 HP)

**Effective Date:**

**10/01/2014**

Rate	Fringe	Total	Total	Total
30.81	12.50	43.31	0.00	0.00

Derrick Operator, Spider/Spill Barge Operator

Engineer, Electrician, Chief Welder, Chief Mate

Fill Placer, Operator II

Licensed Boat Operator

Maintenance Engineer

**Effective Date:**

**10/01/2014**

Rate	Fringe	Total	Total	Total
29.01	12.36	41.37	0.00	0.00

Certified Welder

**Effective Date:**

**10/01/2014**

Rate	Fringe	Total	Total	Total
28.22	12.00	40.22	0.00	0.00

Mate, Drag Barge Operator, Steward, Assistant Fill Placer

Welder

TERRITORY  
ENTIRE STATE

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

OPERATING ENGINEERS MARINE-DREDGING      Rates Expiration Date : 09/30/2015

<b>Effective Date:</b>	<b>10/01/2014</b>				
	Rate	Fringe	Total	Total	Total
	27.30	11.92	39.22	0.00	0.00
Boat Operator					

<b>Effective Date:</b>	<b>10/01/2014</b>				
	Rate	Fringe	Total	Total	Total
	22.68	11.25	33.93	0.00	0.00
Shoreman, Deckhand, Rodman, Scowman					

TERRITORY  
ENTIRE STATE

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

MICROSURFACING/SLURRY SEAL    Rates Expiration Date : 02/28/2015

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.

<b>Effective Date:</b>	<b>03/01/2014</b>				
	Rate	Fringe	Total	Total	Total
	34.25	18.79	53.04	0.00	0.00

Foreman

<b>Effective Date:</b>	<b>03/01/2014</b>				
	Rate	Fringe	Total	Total	Total
	31.75	18.79	50.54	0.00	0.00

Box man

<b>Effective Date:</b>	<b>03/01/2014</b>				
	Rate	Fringe	Total	Total	Total
	29.75	18.79	48.54	0.00	0.00

Microsurface/Slurry Preparation

<b>Effective Date:</b>	<b>03/01/2014</b>				
	Rate	Fringe	Total	Total	Total
	29.75	18.79	48.54	0.00	0.00

Squeegee man

<b>Effective Date:</b>	<b>03/01/2014</b>				
	Rate	Fringe	Total	Total	Total
	28.25	18.79	47.04	0.00	0.00

Cleaner, Taper

TERRITORY  
ENTIRE STATE

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

ASPHALT LABORERS - SOUTH    Rates Expiration Date : 02/28/2015

"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 \$2.50 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

<b>Effective Date:</b>	<b>03/01/2014</b>				
	Rate	Fringe	Total	Total	Total
	37.50	25.28	62.78	0.00	0.00

Paving Foreman

<b>Effective Date:</b>	<b>03/01/2014</b>				
	Rate	Fringe	Total	Total	Total
	36.05	25.28	61.33	0.00	0.00

Head Raker

<b>Effective Date:</b>	<b>03/01/2014</b>				
	Rate	Fringe	Total	Total	Total
	35.90	25.28	61.18	0.00	0.00

Raker, Screedman, Luteman

<b>Effective Date:</b>	<b>03/01/2014</b>				
	Rate	Fringe	Total	Total	Total
	35.65	25.28	60.93	0.00	0.00

Tampers, Smoothers, Kettlemen,  
Painters, Shovelers, Roller Boys

TERRITORY  
ENTIRE STATE

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

ASPHALT LABORERS - SOUTH    Rates Expiration Date : 02/28/2015

Effective Date:	03/01/2014				
	Rate	Fringe	Total	Total	Total
	36.75	25.28	62.03	0.00	0.00

Milling Controller

Effective Date:	03/01/2014				
	Rate	Fringe	Total	Total	Total
	35.95	25.28	61.23	0.00	0.00

Traffic Control Coordinator



TERRITORY  
ENTIRE STATE

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

TEST BORING PRELIMINARY TO CONSTRUCTION-NORTH      Rates Expiration Date : 10/16/2015

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 Date:

11/13/2014

Rate	Fringe	Total	Total	Total
29.44	22.89	52.33	0.00	0.00

Helper (4th year helper)

Effective Date:

11/13/2014

Rate	Fringe	Total	Total	Total
36.82	22.89	59.71	0.00	0.00

Driller

Effective Date:

11/13/2014

Rate	Fringe	Total	Total	Total
42.22	22.89	65.11	0.00	0.00

Foreman

TERRITORY  
ENTIRE STATE

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

**HEAVY & GENERAL LABORERS - NORTH** Rates Expiration Date : 02/28/2015

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 \$2.50 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 Date:

03/01/2014

Rate	Fringe	Total	Total	Total
35.25	25.28	60.53	0.00	0.00

"D" Rate:

basic, landscape, asphalt, slurry seal, or railroad track laborer; utility meter installer; traffic director/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 Date:

03/01/2014

Rate	Fringe	Total	Total	Total
35.95	25.28	61.23	0.00	0.00

"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

TERRITORY  
ENTIRE STATE

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

HEAVY & GENERAL LABORERS - NORTH Rates Expiration Date : 02/28/2015

<b>Effective Date:</b>	03/01/2014				
	Rate	Fringe	Total	Total	Total
	36.20	25.28	61.48	0.00	0.00

"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

<b>Effective Date:</b>	03/01/2014				
	Rate	Fringe	Total	Total	Total
	39.75	25.28	65.03	0.00	0.00

"A" Rate:  
blaster

<b>Effective Date:</b>	03/01/2014				
	Rate	Fringe	Total	Total	Total
	37.50	25.28	62.78	0.00	0.00

"FOREMAN" Rate:  
labor foreman, asphalt foreman, drill foreman, pipe foreman, grade foreman, finisher foreman, concrete foreman

<b>Effective Date:</b>	03/01/2014				
	Rate	Fringe	Total	Total	Total
	38.50	25.28	63.78	0.00	0.00

"GENERAL FOREMAN" Rate

TERRITORY  
ENTIRE STATE

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

HEAVY & GENERAL LABORERS - SOUTH    Rates Expiration Date : 02/28/2015

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 \$2.50 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 Date:

03/01/2014

Rate	Fringe	Total	Total	Total
35.25	25.28	60.53	0.00	0.00

basic, landscape, or railroad track laborer; utility meter installer; traffic director/flagman; sailanader tender; pitman; dumpman; rakers or tampers on cold patch work; wrappers or coaters of pipe; waterproofers

tree cutter

Effective Date:

03/01/2014

Rate	Fringe	Total	Total	Total
35.25	25.28	60.53	0.00	0.00

wagon drill or drill master helper; powder carrier; magazine tender; signal man

TERRITORY  
ENTIRE STATE

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

HEAVY & GENERAL LABORERS - SOUTH Rates Expiration Date : 02/28/2015

Effective Date:	03/01/2014				
	Rate	Fringe	Total	Total	Total
	35.95	25.28	61.23	0.00	0.00

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 Date:	03/01/2014				
	Rate	Fringe	Total	Total	Total
	35.25	25.28	60.53	0.00	0.00

timberman; wagon or directional drill operator; drill master

Effective Date:	03/01/2014				
	Rate	Fringe	Total	Total	Total
	39.75	25.28	65.03	0.00	0.00

blaster

Effective Date:	03/01/2014				
	Rate	Fringe	Total	Total	Total
	37.50	25.28	62.78	0.00	0.00

labor foreman, drill foreman, pipe foreman, grade foreman, finisher foreman, concrete foreman

Effective Date:	03/01/2014				
	Rate	Fringe	Total	Total	Total
	38.50	25.28	63.78	0.00	0.00

general foreman

Effective Date:	03/01/2014				
	Rate	Fringe	Total	Total	Total
	36.20	25.28	61.48	0.00	0.00

concrete finisher; setter of brick or stone pavers; stone cutter; form setter; manhole, catch basin, or inlet builder; rammer; guniting nozzle man

TERRITORY  
ENTIRE STATE

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

PIPELINE - MAINLINE TRANSMISSION    Rates Expiration Date : 05/31/2015

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 Date:

07/22/2014

Rate	Fringe	Total	Total	Total
52.50	24.01	76.51	0.00	0.00

Pipeline Journeyman Welder



TERRITORY  
ENTIRE STATE

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

PIPELINE - GAS DISTRIBUTION    Rates Expiration Date : 10/31/2015

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.

<b>Effective Date:</b>	<b>10/30/2014</b>				
	Rate	Fringe	Total	Total	Total
	54.13	20.90	75.03	0.00	0.00
Pipeline Journeyman Welder					

<b>Effective Date:</b>	<b>10/30/2014</b>				
	Rate	Fringe	Total	Total	Total
	54.13	20.90	75.03	0.00	0.00
Pipeline Journeyman					

<b>Effective Date:</b>	<b>10/30/2014</b>				
	Rate	Fringe	Total	Total	Total
	35.07	15.09	50.16	0.00	0.00
Pipeline Helper					



TERRITORY  
ENTIRE STATE

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

ASPHALT LABORERS- NORTH    Rates Expiration Date : 02/28/2015

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 \$2.50 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

<b>Effective Date:</b>	<b>03/01/2014</b>				
	Rate	Fringe	Total	Total	Total
	37.50	25.28	62.78	0.00	0.00

Asphalt Foreman

<b>Effective Date:</b>	<b>03/01/2014</b>				
	Rate	Fringe	Total	Total	Total
	36.20	25.28	61.48	0.00	0.00

Asphalt Screedman

<b>Effective Date:</b>	<b>03/01/2014</b>				
	Rate	Fringe	Total	Total	Total
	35.95	25.28	61.23	0.00	0.00

Asphalt Raker or Lute Man

<b>Effective Date:</b>	<b>03/01/2014</b>				
	Rate	Fringe	Total	Total	Total
	35.25	25.28	60.53	0.00	0.00

Asphalt Laborer

TERRITORY  
ENTIRE STATE

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

ELECTRICIAN- UTILITY WORK (NORTH)    Rates Expiration Date : 12/03/2017

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 be 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 Date:	12/01/2014			11/29/2015	12/04/2016
	Rate	Fringe	Total	Total	Total
	48.93	32.78	81.71	84.36	87.27

Chief Lineman

Effective Date:	12/01/2014			11/29/2015	12/04/2016
	Rate	Fringe	Total	Total	Total
	46.16	30.92	77.08	79.59	82.34

Journeyman Lineman

Effective Date:	12/01/2014			11/29/2015	12/04/2016
	Rate	Fringe	Total	Total	Total
	46.16	30.92	77.08	79.59	82.34

Special License Operator

TERRITORY  
ENTIRE STATE

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

ELECTRICIAN- UTILITY WORK (NORTH)      Rates Expiration Date : 12/03/2017

Effective Date:	12/01/2014			11/29/2015	12/04/2016
	Rate	Fringe	Total	Total	Total
	45.70	30.61	76.31	78.79	81.51

Transit Man

Effective Date:	12/01/2014			11/29/2015	12/04/2016
	Rate	Fringe	Total	Total	Total
	44.32	29.69	74.01	76.40	79.04

Line Equipment Operator

Effective Date:	12/01/2014			11/29/2015	12/04/2016
	Rate	Fringe	Total	Total	Total
	38.78	25.98	64.76	66.85	69.17

Dynamite Man

Effective Date:	12/01/2014			11/29/2015	12/04/2016
	Rate	Fringe	Total	Total	Total
	54.47	36.49	90.96	93.92	97.16

General Foreman

Effective Date:	12/01/2014			11/29/2015	12/04/2016
	Rate	Fringe	Total	Total	Total
	53.09	35.57	88.66	91.53	94.68

Assistant General Foreman

Effective Date:	12/01/2014			11/29/2015	12/04/2016
	Rate	Fringe	Total	Total	Total
	51.70	34.63	86.33	89.14	92.21

Line Foreman

Effective Date:	12/01/2014			11/29/2015	12/04/2016
	Rate	Fringe	Total	Total	Total
	37.39	25.05	62.44	64.46	66.69

Straight Light Mechanical Leader

Effective Date:	12/01/2014			11/29/2015	12/04/2016
	Rate	Fringe	Total	Total	Total
	35.54	23.81	59.35	61.28	63.40

Groundman Winch Operator

TERRITORY  
ENTIRE STATE

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

ELECTRICIAN- UTILITY WORK (NORTH)      Rates Expiration Date : 12/03/2017

Effective Date:	12/01/2014			11/29/2015	12/04/2016
	Rate	Fringe	Total	Total	Total
	35.54	23.81	59.35	61.28	63.40

Groundman Truck Operator

Effective Date:	12/01/2014			11/29/2015	12/04/2016
	Rate	Fringe	Total	Total	Total
	35.08	23.50	58.58	60.48	62.57

Straight Light Mechanic

Effective Date:	12/01/2014			11/29/2015	12/04/2016
	Rate	Fringe	Total	Total	Total
	35.08	23.50	58.58	60.48	62.57

Line Equipment Mechanic

Effective Date:	12/01/2014			11/29/2015	12/04/2016
	Rate	Fringe	Total	Total	Total
	30.01	20.10	50.11	51.73	53.52

Groundman 2nd Year

Effective Date:	12/01/2014			11/29/2015	12/04/2016
	Rate	Fringe	Total	Total	Total
	27.70	18.55	46.25	47.76	49.39

Groundman 1st Year

Effective Date:	12/01/2014			11/29/2015	12/04/2016
	Rate	Fringe	Total	Total	Total
	45.70	30.61	76.31	78.79	81.51

Line Equipment Foreman

**TERRITORY**  
**ENTIRE STATE**

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

**ELECTRICIAN- UTILITY WORK (SOUTH)**     **Rates Expiration Date : 11/30/2015**

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.





TERRITORY  
ENTIRE STATE

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

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS    Rates Expiration Date : 02/28/2015

**\*\*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 \$2.50 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

<b>Effective Date:</b>	<b>03/01/2014</b>				
	Rate	Fringe	Total	Total	Total
	57.00	25.28	82.28	0.00	0.00

Walking Boss & Superintendent

<b>Effective Date:</b>	<b>03/01/2014</b>				
	Rate	Fringe	Total	Total	Total
	56.55	25.28	81.83	0.00	0.00

Heading Foreman, Shaft Foreman, Rod Foreman, Electrical Foreman, Rigging Foreman

<b>Effective Date:</b>	<b>03/01/2014</b>				
	Rate	Fringe	Total	Total	Total
	55.80	25.28	81.08	0.00	0.00

Iron Foreman, Caulking Foreman, Form Foreman, Cement Finishing Foreman, Concrete Foreman, Track Foreman, Clean-up Foreman, Grout Foreman









# State of New Jersey

DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PO BOX 389  
TRENTON, NEW JERSEY 08625-0389

**February 5, 2015**

## **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.

<b><u>CONTRACTORS AND SUBCONTRACTORS</u></b>	<b><u>ADDRESS</u></b>	<b><u>EXPIRATION DATE</u></b>
<b>4 S Logging &amp; Lumber Co., Inc.</b> George Heigel, Vice-President Carole Johnson, Secretary Shawn Sheeley, President	130 Sheeley Road Ext., Kersey, PA 15846 350 Main Street, Kersey, PA 15846 390 Seneca Road, St marys, PA 15857 130 Sheeley Road, Kersey, PA 15846	05/29/2016
<b>A &amp; H Contracting, Inc.</b>	33 Eastwood Blvd., Manalapan, NJ 07726	05/27/2017
<b>A &amp; M Remodelling</b> Artem Melnyk, Member	10017 Jeans Street, 1st Floor, Philadelphia, PA 19116 8653 Glenloch Street #2, Philadelphia, PA 19136	11/15/2015
<b>A.J. Skora Inc.</b> Andrzej Skora, President	1982 Route 9, Toms River, NJ 08753 67 Cox Cro Road, Toms River, NJ 08755	08/18/2016
<b>AB Contracting &amp; Develpmernt LLC</b> Michael Santos, President	191 Central Ave, 2nd Floor, Newark, NJ 07101 988 Johnson Place, Apt 4, Union, NJ 07083	11/26/2016
<b>ACC Construction LLC</b> Christopher Zimmermann, President	2303 Owen Ct., Toms River, NJ 08755 2303 Owen Court, Toms River, NJ 08755	02/11/2016
<b>ACC Contractors Corp.</b> Robert Lueders, Owner	105 11th Street, Hoboken, NJ 07030 1008 Ridge Drive, Union, NJ 07083	05/21/2016
<b>Advanced Spray Technology</b> Robert Woods, President	6384 Tollgate Road, Zionsville, PA 18092 6384 Tollgate Road, Zionsville, PA 18092	01/14/2016
<b>All County Pipeline &amp; Site Excavation LLC</b> Christine Charles, Vice-President Eric Charles, President	164 Ball Ave, Parsippany, NJ 07054 396 Cherry Lane, Mendham, NJ 07945 396 Cherry Lane, Mendham, NJ 07945	04/21/2017
<b>Allied Construction LLC.</b> <b>Allied Construction Management, LLC</b> Alfred Sciubba, Managing Member	100 Dobbs Lane, Suite 102, Cherry Hill, NJ 08034 3 Chadwick Drive, Voorhees Twp., NJ 08043	10/21/2016
<b>AMC Industries LLC</b> same Denise Mautone, Member Anna Mautone, Member Lisa Mautone, Member	P.O. Box-760, Holmdel, NJ 07733 18A South Bears Street, Holmdel, NJ 07733 88 Stilwell Road, Holmdel, NJ 07733 25 Roberts Road, Holmdel, NJ 07733	08/04/2016

CONTRACTORS AND SUBCONTRACTORSADDRESSEXPIRATION DATE

American Air Systems Group	10 Franklin Avenue, Edison, NJ 08837	10/01/2015
Thomas O'Connell, President	499 Grace Hill Road, Monroe Twp, NJ 08837	
American Eagle Contractor, Inc.	420 Broadway, Long Branch, NJ 07740	08/11/2017
Agustin Zuniga, President	420 Broadway, Long Branch, NJ 07740	
American Welding Services	1041 Glassboro Rd D-2, Williamstown, NJ 08094	07/09/2017
American Welding Services, Inc.		
Brian O'Shea, Owner	1041 Glassboro Rd. D-2, Williamstown, NJ 08094	
Anchorage Construction Corp.	95 Wall Street, Suite 506, New York City, NY 10005	02/06/2016
Lauren Campanella, President	948 Sinclair Avenue, Staten Island, NY 10309	
Andre Campanella, Vice-President	948 Sinclair Ave, Staten Island, NY 10309	
Anew Fence & Railings	292 Church Street, Aberdeen, NJ 07747	09/16/2015
Donald Eastmond, Owner	292 Church Street, Aberdeen, NJ 07747	
Arto Contracting & Development	35 Elmwood Ave, Unit 2B, Union, NJ 07083	08/26/2016
Arteo Contracting & Development, Inc.		
Peter Santos, President	35 Elmwood Ave, Unit 2B, Union, NJ 07083	
B & B Atlantic LLC	526 Sheridan Ave., Roselle, NJ 07203	12/01/2016
Florian Dobre, Partner	526 Sheridan Ave, Roselle, NJ 07203	
Barzzini Construction	65 Fern St, Browns Mills, NJ 08015	09/15/2017
John Sorrentino, Owner	65 Fern St, Browns Mills, NJ 08015	
BCA Trucking LLC	10 Pleasant Place, Kearny, NJ 07032	08/04/2016
BCA Trucking, LLC	P.O. Box 5806, Newark, NJ 07105	08/04/2016
David Bastos, Managing Member	10 Pleasant Place, Kearny, NJ 07032	
Bechi Contracting LLC (EBA Painters)	549 Summit Ave, Maplewood, NJ 07470	03/25/2016
Bechi Contracting LLC		
Rony Barahona, Member	549 Summit Ave, Maplewood, NJ 07040	
Beckett Enterprises, Inc.	P.O. Box 334, Malaga, NJ 08328	01/05/2017
Wesley J. Beckett Jr., President	110 Oak Avenue, Malaga, NJ 08328	
Blue Skies Electric L.L.C.	326 Coles Mill Road, Williamstown, NJ 08094	01/06/2017
Scott Frasca, Manager	326 Coles Mill Road, Williamstown, NJ 08094	
Rachel Frasca, Owner	326 Coles Mill Road, Williamstown, NJ 08094	
BP Enterprises, Inc.	408 West 129th Street, Apt. 7, New York City, NY 10027	01/13/2016
Branson Pickney, Owner	408 West 129th Street, Apt. 7, New York, NY 10027	
Brothers Landscaping	169 Robertsville Rd., Freehold, NJ 07728	01/05/2018
J.H. Brothers Inc.		
Brad J. Moini, President	101 Buttonwood Lane, Freehold, NJ 07728	
Buckler Associates, Inc.	182 Wycoff Way West, East Brunswick, NJ 08816	01/02/2016
Bert L. Buckler, President	182 Wycoff Way West, East Brunswick, NJ 08816	
Calvin's Floor Service, aka Calvin's Carpet Service	126 Winding Ridge Road, Dover, DE 19904	06/11/2016
Calvin Hudson, Owner	126 Winding Ridge Road, Dover, DE 19904	
Caro Corporation	70-76 Passaic Avenue, Florham Park, NJ 07932	02/03/2018
Francesco Farro, President	21 Lakeview Court, Rockaway, NJ 07866	
Caslo Drywall Corp.	644 East 2nd St, Unit 2, Plainfield, NJ 07060	04/22/2017
Luis Oliveras, Owner	644 East 2nd St., Plainfield, NJ 07060	
Centurion Companies Inc.	795 Susquehanna Avenue, Franklin Lakes, NJ 07417	07/24/2016
Glen P. Poppe, Secretary	795 Susquehanna Ave, Franklin Lakes, NJ 07417	
Christopher Poppe, President	317 Greenridge Road, Franklin Lakes, NJ 07417	
CGT Construction, Inc.	10 Franklin Avenue, Edison, NJ 08837	02/10/2016
Thomas O'Connell, President	449 Grace Hill Road, Monroe, NJ 08817	

**CONTRACTORS AND SUBCONTRACTORS****ADDRESS****EXPIRATION DATE**

<b>Chalmers Construction LLC.</b> Shawn Chalmers, Owner Keith Mishoe, Owner	<b>435 Minnisink Road, Totowa, NJ 07512</b> 337 Crown Street, Brooklyn, NY 11211 341 Seaton Avenue, Roselle Park, NJ 07204	<b>11/20/2016</b>
<b>Chanez Landscaping, LLC</b> Noe Chanez, Principal	<b>PO Box 5646, New Brunswick, NJ 08903</b> 55 Miller Ave., Somerset, NJ 08873	<b>09/23/2017</b>
<b>Citadel Environmental Consultants</b> William Muzzio Jr., Owner	<b>1 Center Circle, Woodbridge, NJ 07095</b> 597 Lyman Ave, Woodbridge, NJ 07095	<b>01/14/2016</b>
<b>Cityline Contracting Inc.</b> Dorothy Dobiecka, President Andrzej Citak, Vice-President	<b>556 Humboldt Street, Brooklyn, NY 11222</b> 556 Humboldt Street, Brooklyn, NY 11222 556 Humboldt St, Brooklyn, NY 11222	<b>08/03/2017</b>
<b>Cobra Communications &amp; Installations, LLC</b> Giovanny Bustos, Owner	<b>26 Spencer Place, Garfield, NJ 07026</b> 26 Spencer Place, Garfield, NJ 07026	<b>12/10/2017</b>
<b>Coplen Management, Inc.</b> Mahesh Patel, Owner	<b>828 Highland Ave, Paramus, NJ 07652</b> 828 Highland Ave, Paramus, NJ 07652	<b>06/25/2016</b>
<b>CPS Mechanical Contractors, Inc.</b> Margaret Sherman, President	<b>203 Woods Ave, Bergenfield, NJ 07621</b> 203 Woods Avenue, Bergenfield, NJ 07621	<b>12/15/2017</b>
<b>CRC General Constructors Inc.</b> Antonio Gomes Jr., President	<b>137 1/2 Washington Ave, Suite 290, Belleville, NJ 07109</b> 41 Hamilton Ave, Kearny, NJ 07032	<b>08/11/2016</b>
<b>Crider Americas Solar LLC</b> Steven Crider, Member Harold Marshall, Jr., Member	<b>6063 FM 535, Cedar Creek, TX 78612</b> 507 Pressler Street, Apt. 2128, Austin, TX 78703 1800 Eva Street, Austin, TX 78704	<b>05/11/2017</b>
<b>Crossroad Construction Corp.</b> Antonio Gomes Sr., President	<b>312 Emmet Street, Newark, NJ 07114</b> 164 Green Street, Newark, NJ 07105	<b>05/12/2016</b>
<b>Cunhas Construction Inc.</b> Nuno Cunha, Owner	<b>35 Carmen Ct, Floor-1, Newark, NJ 07105</b> 35 Carmen Ct., Newark, NJ 07105	<b>10/22/2017</b>
<b>D &amp; B Partners LLC</b> same Michael F. Ferro Jr., Member John Giannattasio, Member	<b>89 Jeanne Court, Stamford, CT 06905</b> 89 Jeanne Court, Stamford, CT 06905 89 Jeanne Court, Stamford, CT 06905	<b>08/08/2016</b>
<b>D. Simonetti, Inc.</b> David Simonetti, Vice-President Domenico Simonetti, President	<b>35 Hayes Street, Elmsford, NY 10523</b> 8 Hightor Road, New City, NY 10956 6 Hanford Place, Tarrytown, NY 10591	<b>02/07/2015</b>
<b>Dean Development Inc.</b> William Boera, President	<b>One North Rhoda Street, Monroe Township, NJ 08831</b> One North Rhoda Street, Monroe Township, NJ 08831	<b>02/06/2015</b>
<b>Designer Impressions</b> Daniel Mena, Owner	<b>1002 Taunton Ave, West Berlin, NJ 08091</b> 1002 Taunton Ave, West Berlin, NJ 08091	<b>11/15/2015</b>
<b>Diamond State Wall Systems, LLC</b> Nick Cerelli, Member	<b>1640 Nixon Dr Ste 285, Moorestown, NJ 08057</b> 1640 Nixon Dr. Ste. 205, Moorestown, NJ 08057	<b>02/05/2016</b>
<b>Division Ten Installations, LLC</b> Kevin G. Eib, President	<b>29 Monmouth Road, Monroe Township, NJ 08831</b> 29 Monmouth Road, Monroe Twp., NJ 08831	<b>04/02/2017</b>
<b>DM Fernandes Contracts LLC</b> Hugo Fernandes, Owner	<b>551 North Broad St, Elizabeth, NJ 07208</b> 90 Willow Street, Carteret, NJ 07008	<b>01/27/2018</b>
<b>DMH Trucking, Inc.</b> Joe Hilt, President	<b>79 Myrtle Ave, Mickleton, NJ 08056</b> 79 Myrtle Ave, Mickleton, NJ 08056	<b>08/22/2015</b>
<b>East Coast Touch Enterprises LLC</b> Frank Loureier, Vice-President Nelson DeOliveira, President	<b>152 Jackson St., Newark, NJ 07105</b> 152 Jefferson St., Newark, NJ 07105 276 Highland Ave, Kearney, NJ 07032	<b>08/11/2017</b>

**CONTRACTORS AND SUBCONTRACTORS****ADDRESS****EXPIRATION DATE**

<b>East Commercial Construction</b>	111 Prospect St. Apt 4F, Westfield, NJ 07090	07/29/2015
Stephen Gallagher, Owner	221 Coolidge Street, Suite 11, Linden, NJ 07036	
<b>Eastern American Renovation Corp.</b>	565 Fairview Ave., Ridgewood, NY 11385-1947	04/18/2015
Tomasz Markowski, President	2026 Himrod Road, Ridgewood, NY 11385	
<b>Edward J. Albert &amp; Son Inc.</b>	20 Wilson Avenue West, East Hanover, NJ 07936	03/25/2016
John Albert, Vice-President	66 Cherokee Street, Rockaway, NJ 07866	
Elizabeth S. Albert, Secretary	20 Wilson Avenue West, East Hanover, NJ 07936	
Joseph Albert, Vice-President	28 Emanuel Street, East Hanover, NJ 07936	
Thomas E. Albert, President	1343 South Beverwyck Road, Parsippany, NJ 07054	
<b>Elevator Medic Corporation</b>	55 Brookview Drive, Woodcliff Lake, NJ 07677	02/24/2017
Patrick Dellaquila, President	55 Brookview Drive, Woodcliff Lake, NJ 07677	
<b>Emanuel Drywall Services, Inc</b>	64 Grandview Ave, North Plainfield, NJ 07060	04/30/2017
Cesar Garcia, Owner	64 Grandview Ave, North Plainfield, NJ 07060	
<b>Envirocare Enterprises, Inc.</b>	358 Broadway, Suite 202, Newark, NJ 07104	05/15/2017
<b>Envirocare Enterprises, Inc.</b>	259 West Forest Avenue, Englewood, NJ 07631	
UJU A. Obiorah, President	658 Rutgers Pl, Paramus, NJ 07652	
Inno Obiorah, Manager	468 9th Street, Palisades Park, NJ 07650	05/30/2016
<b>Estrada &amp; Roca LLC</b>	432 52nd Street Apt 2, West New York, NJ 07093	
Hector Estrada, Owner	468 9th St, Apt # 2, Palisades Park, NJ 07650	
Jose Roca, Owner	70 Bordentown-Chesterfield, Rd., Chesterfield, NJ 08022	02/24/2017
<b>Euro Construction</b>	70 Bordentown-Chesterfield, Rd., Chesterfield, NJ 08515	
Ireneusz Waluk, Owner	141 Rte. 130 South, Suite 192, Cinnaminson, NJ 08077	04/22/2017
<b>Five Star Quality Construction</b>	141 RT. 130 South, Suite 192, Cinnaminson, NJ 08077	
Alicirio Jose Santana Pires, Owner	66 6th Ave., Long Branch, NJ 07740	07/29/2015
<b>Fortress Construction Co., Inc.</b>	66 6th Ave., Long Branch, NJ 07740	
Fernando F. Pinho, President	1828 Herbert Boulevard, Williamstown, NJ 08094	10/09/2015
<b>Frank J. Muratore, Jr., Inc.</b>	1828 Herbert Boulevard, Williamstown, NJ 08094	
<b>Frank J. Muratore</b>	42 Bryant Rd., Waretown, NJ 08758	07/10/2017
Frank J. Muratore Jr., Owner	42 Bryant Rd., Waretown, NJ 08758	
<b>Frank Montgomery Builder</b>	256 Grove St., North Plainfield, NJ 07060	03/05/2015
Frank Montgomery, Owner	256 Grove St., North Plainfield, NJ 07060	
<b>G&amp;G Drywall, Inc.</b>	584 Erial Road, Sicklerville, NJ 08081	04/17/2016
Efrain Gonzalez, Owner	584 Erial Road, Sicklerville, NJ 08081	
<b>G.W. Smith Construction, Inc.</b>	584 Erial Road, Sicklerville, NJ 08081	
Lisa L. Smith, Vice-President	211 Jewett Road, Upper Nyack, NY 10960	12/01/2016
Gary W. Smith, President	768 Chambers Street, Trenton, NJ 08619	04/27/2017
<b>Gale Force Telecommunications Inc</b>	768 Chambers St., Trenton, NJ 08611	
<b>Garza Contracting LLC</b>	105 Cedar Ave, Oaklyu, NJ 08107	02/18/2016
John Garza, Owner	105 Cedar Ave, Woodlynne, NJ 08107	
<b>George's Carpet</b>	562 Jernee Mill Rd., Sayreville, NJ 08872	01/13/2016
<b>George Tassogloy</b>	15 Center Street, South River, NJ 08882	
George Tassogloy, Owner	46 Grove Street, South River, NJ 08882	
<b>Globo Contracting Corporation</b>	215 Princeton Road, Parlin, NJ 08859	
Manuel Martins, Treasurer	99 Hillside Terrace, Parsippany, NJ 07054	02/06/2016
Rogério Martins, Vice-President	99 Hillside Terrace, Parsippany, NJ 07054	
Antonio Martins, President		
<b>GM Masonry, Inc.</b>		
George McGee, President		

CONTRACTORS AND SUBCONTRACTORSADDRESSEXPIRATION DATE

<b>Grab Heating and Air Conditioning, LLC.</b> Zbigniew Grabowski, Owner	35 Jersey Street, East Rutherford, NJ 07073 35 Jersey Street, East Rutherford, NJ 07073	05/14/2016
<b>Green Diamond Roofing &amp; Live Roof, LLC</b> Jazmine Price, President	3515 Frankford Ave, Philadelphia, PA 19134 744 South St Unit 65, Philadelphia, PA 19147	08/04/2016
<b>Green Oasis Maintenance, Inc.</b> Franco S. DiMeglio, President	409 Bennetts Lane, Somerset, NJ 08873 409 Bennetts Lane, Somerset, NJ 08873	04/18/2015
<b>GSR Architectural, Inc</b> Gary Russo, President	200 Mountain Avenue, Middlesex, NJ 08846 3 Premier Way, Manalapan, NJ 07726	08/13/2016
<b>Harlow Contracting, Inc.</b> Albert J Harlow Jr, President	4771 Route 212, PO Box 147, Durham, PA 18039 515 Summit Lane, Riegelsville, PA 18077	04/21/2016
<b>HFM Labor Ready LLC</b> <b>HFM Labor Ready LLC</b> Keith Ludwig, Member	459 Rt 38 West, Maple Shade, NJ 08052 459 Rt 38 West, Maple Shade, NJ 08052	01/05/2018
<b>Highway Safety Systems Inc.</b> William J. Doyle, President	716 White Horse Pike, Hammonton, NJ 08037 200 Pine Rd., Hammonton, NJ 08037	12/16/2017
<b>I.K.E. Electrical Corp.</b> Rebecca Adika, Secretary Angelo Castelli, President Yitzhak Adika, Vice-President	100 W. Forest Avenue, Building E, Englewood, NJ 07631 76 Alpine Dr., Closter, NJ 48 E. Central Blvd., Palisades Park, NJ 07650 76 Alpine Drive, Closter, NJ 07624	07/20/2017
<b>IBS, Inc.</b> Christopher Rymal, Owner	1929 Darby Road, Havertown, PA 19083 1929 Darby Rd., Havertown, PA 19083	05/15/2017
<b>Ideal Elevator Services</b> <b>Patrick Dell'Aquila</b> Patrick Dell'Aquila, President	55 Brookview Dr., Woodcliff Lake, NJ 07677 55 Brookview Drive, Woodcliff Lake, NJ 07677	02/24/2017
<b>Industrial Concrete Const. of NJ, Inc.</b> Lori A. Frisina, President	P.O. Box 9349, Lyndhurst, NJ 07071 235 Grand Avenue, Rutherford, NJ 07070	06/26/2016
<b>Infinity Construction &amp; Son, LLC</b> Pat Sellitti, Owner	870 Lamont Ave., Staten Island, NY 10309 870 Lamont Ave., Staten Island, NY 10309	04/15/2016
<b>J.D.S Electric, Inc.</b> Joe DeSalvo, Jr., Owner	149 Montross Ave., Rutherford, NJ 07070 149 Montross Ave., Rutherford, NJ 07070	01/06/2018
<b>Jamcon Construction LLC</b> John Schiavo, Managing Member	100 Springdale Road, Cherry Hill, NJ 08003 6 Justa Lane, Cherry Hill, NJ 08003	01/12/2017
<b>James Rough Bleachers</b> James Rough, Owner	12767 Van Horne Rd., Meadville, PA 16335 12767 Van Horne Rd., Meadville, PA 16335	03/21/2016
<b>JD Scaffold Inc.</b> Randy Garciga, Owner	13353 NE 17th Ave, North Miami, FL 33181 13353 NE 17th Avenue, North Miami, FL 33181	08/24/2017
<b>Jersey Wall Concepts, LLC</b> Matus Madar, Managing Member	24 Westminster Boulevard,, Apt. G, South Amboy, NJ 08879 75 Hart Street, Sayreville, NJ 08872-1123	03/25/2015
<b>JIC-ELCO Inc.</b> Frederick Ellis, President	2 Island Pond Road, Derry, NH 03038 2 Island Pond Road, Derry, NH 03038	08/26/2015
<b>John Gustafson Excavating, Inc.</b> John Gustafson, President	216 Union Street, Montgomery, NY 12549 39 Charles Street, Montgomery, NY 12549	04/09/2016
<b>Johnson's Construction Inc.</b> Henry Johnson, Owner	1258 N. East Avenue, Vineland, NJ 08360 1258 N. East Avenue, Vineland, NJ 08360	01/24/2016
<b>Joseph Csakvary, Inc.</b> Joseph Csakvary, President	163 Breakneck Road, Highland Lakes, NJ 07422 163 Breakneck Road, Highland Lakes, NJ 07422	11/03/2016

CONTRACTORS AND SUBCONTRACTORSADDRESSEXPIRATION DATE

<b>JTG Scaffolding &amp; Hoisting LLC</b> Randy Garciga, Owner	309 West Elizabeth Avenue, Linden, NJ 07036 13353 NE 17th Avenue, Miami, FL 33181	10/22/2017
<b>K &amp; S Fabrication &amp; Welding, LLC</b> Simon Walcott, Owner	23 North Street, Bergenfield, NJ 07621 43 Fairview Avenue, Bergenfield, NJ 07621	01/12/2018
<b>K&amp;K Construction LLC</b> Ki Kuk Kim, Partner Kwang Hee Kim, Partner	685 Bergen Blvd., Ridgefield, NJ 07657 685 Bergen Blvd., Ridgefield, NJ 07657 685 Bergen Blvd., Ridgefield, NJ 07657	06/09/2017
<b>Keystone Steel Structures Inc.</b> Elam King, Member	3010 Compass Road, Honey Brook, PA 19344 6285 Plank Road, Narvon, PA 17555	09/14/2017
<b>L and Y Roofing, LLC</b> Luis Vargas, Owner	183 Belmont Avenue, Haledon, NJ 07522 291 Jefferson Street, Paterson, NJ 07522	03/16/2017
<b>Lombardi Enterprises, Inc.</b> Alan Lombardi, President Ann Lombardi, Secretary	2901 South Clinton Avenue, South Plainfield, NJ 07080 26 Whispering Way, Berkeley Hights., NJ 07922 26 Whispeiring Way, Berkeley Hights, NJ 07922	12/09/2017
<b>Lucas Construction Services</b> Mark Lucas, Owner	31 Glassboro Rd, Monroeville, NJ 08343 ,,	10/11/2015
<b>Mar Builders</b> <b>Mar Builders, Inc.</b> Nuno Ferreira, President	165 Brunswick Street, Newark, NJ 07114 295 Baltursol Way, Springfield, NJ 07081	05/07/2015
<b>Marvin Ardon Painting</b> Marvin Alexander Ardon, Owner	52 S. Jefferson St., Orange, NJ 07070 52 South Jefferson St., Orange, NJ 07050	12/03/2016
<b>Mason Tech, LLC</b> Mariusz Zielonka, President Iwona Zielonka, Vice-President	35 Eighth St. Suite 7, Passaic, NJ 07055 30 Carolyn Ct., E. Hanover, NJ 07936 30 Carolyn Ct., E. Hanover, NJ 07936	08/09/2015
<b>Mattina Construction LLC</b> Vincent Mattina, Owner	22 Toms River Road, Jackson, NJ 08527 22 Toms River Rd, Jackson, NJ 08527	12/14/2017
<b>Metal Fab Atlantic LLC</b> John Dever, Owner	353 Zion Road, Egg Harbor Twp., NJ 08234 1086 Mays Landing Road, Somers Point, NJ 08234	01/21/2018
<b>Metroplex Products Co. Inc.</b> Peter Herring, President	377 Deans Rhode Hall Road, Monroe, NJ 08831 164 South Moetz Drive, Milltown, NJ 08850	01/06/2018
<b>MF Speed Construction, LLC.</b> Fernando Lopes, President Magda Zamprogno, Other	65-67 7th Ave. East, 1st Floor, Newark, NJ 07104 65-67 7th Ave., East 1st Floor, Newark, NJ 07104 65-67 7th Ave., East 1st Floor, Newark, NJ 07104	10/16/2016
<b>MIG Topflight</b> Ashish Thomas, Owner	6 Spruce Meadows Dr., Monroe, NJ 08831 6 Spruce Meadows Dr., Monroe, NJ 08831	07/28/2017
<b>Midwest Construction, Inc.</b> George Antonas, President	114 Brace Road, Cherry Hill, NJ 08034 114 Brace Road, Cherry Hill, NJ 08034	07/23/2017
<b>MJM Painting LLC</b> Michael Contreras, Owner	77 Littleton Road, PO Box 226, Morris Plains, NJ 07950 77 Littleton Road, Morris Plains, NJ 07950	04/11/2016
<b>Monmouth Construction LLC</b> same Shawn F. Mowery, Member	201 3rd Ave., Bradley Beach, NJ 07720-1251 1A Maple Leaf Drive, Holmdel, NJ 07733	03/11/2016
<b>National Architectural Products Inc.</b> James Yuhasz, Vice-President Antonene Yuhasz, President	1711 Ginesi Drive, Suite 2, Freehold, NJ 07728 4 Grant Dr., Cream Ridge, NJ 08514 4 Grant Dr., Cream Ridge, NJ 08510	02/18/2016
<b>Natural View Landscapes LLC</b> Zachary Kouhoup, President	513 West Summer Ave, Miuotola, NJ 08341 5923 Peach St, Mays Landing, NJ 08330	01/05/2017



CONTRACTORS AND SUBCONTRACTORSADDRESSEXPIRATION DATE

<b>NDA &amp; Construction, LLC</b> Nester Torres, Owner	161 Thomas St, Unit 1, Newark, NJ 07114 161 Thomas St, Unit 1, Newark, NJ 07114	12/10/2017
<b>Nicola Matera &amp; Sons L.L.C.</b> William Vlasich, Managing Member Sheila Vlasich, Managing Member	48 Old Jacksonville Road, Towaco, NJ 07082 7 Ginkgo Court, Upper Saddle River, NJ 07458 7 Ginkgo Court, Upper Saddle River, NJ 07458	10/20/2016
<b>Noe's Concrete Inc</b> Noe Alatorre, Owner	30 Euclid Ave, Medford, NY 11753 30 Euclid Ave, Medford, NY 11763	06/06/2016
<b>Noreast, Inc.</b> David Zohak, President Karen Zohak, Vice-President	410 North Avenue East, Cranford, NJ 07016 210 Orange Avenue, Cranford, NJ 07016 210 Orange Avenue, Cranford, NJ 07016	05/15/2017
<b>Ocean Blue Builders LLC</b> John Riley Jr, Managing Member	711 Carol Avenue, Oakhurst, NJ 07755 140 Harrison Avenue, Fair Haven, NJ 07704	11/05/2017
<b>OCM Construction</b> <b>OCM Construction, LLC</b> William Mitchell, Owner	203 Main Street, #204, Flemington, NJ 08822 22 Greenwood Place, Flemington, NJ 08822	08/11/2017
<b>Ohana Metal &amp; Iron Works Inc.</b> Erezy Ohana, Owner	60 Miller Road, Montgomery, NY 12549 60 Miller Road, Montgomery, NY 12549	08/05/2017
<b>Old City Remodeling</b> Fabricio Franco, Owner	1406 Lexington Pl., Elizabeth, NJ 07208 1406 Lexington Pl., Elizabeth, NJ 07208	06/09/2016
<b>Patriot Carpentry, LLC</b> Richard Dube, Principal	111 Coach House Square, Pooler, GA 31322 111 Coach House Square, Pooler, GA 31322	03/25/2016
<b>Patti Construction, LLC</b> James Patti, Owner	2700 Hamilton Blvd., P.O. Box 169, South Plainfield, NJ 07080 ,,	01/13/2016
<b>Paul Sexton</b> Paul Sexton, Owner	462 10th Ave., Paterson, NJ 07510 462 10th Ave., Paterson, NJ	07/10/2017
<b>Pax Construction Corp.</b> Antonio Pereira, President Julio Pereira, Vice-President	67 Highway 36, West Long Branch, NJ 07764 159 Locust Avenue, West Long Branch, NJ 07764 304 Crimson Circle, Oakhurst, NJ 07755	10/16/2017
<b>PER Construction LLC</b> Manuel Pereira, Owner	67 State Route 36, Suite #4, West Long Branch, NJ 07764 194 Monmouth Ave., Long Branch, NJ 07740	10/16/2017
<b>Peter Giancola &amp; Sons Incorporated</b> Gregory J. Costa, President Vincent C. Costa, Vice-President Mark Gilbert, Secretary	89 Unwin Drive, Hamilton, NJ 08610 2168 South Olden Avenue, Trenton, NJ 08610 835 Estates Boulevard, Hamilton Township, NJ 08650 89 Unwin Drive, Trenton, NJ 08610	07/29/2015
<b>Pinnacle Construction &amp; Renovation Corp.</b> Roman Olejnik, President	1632 Stephen Street, Ridgewood, NY 11385 1882 Putnam Ave., Ridgewood, NY 11385	03/25/2015
<b>Pitbull Electric, Inc.</b> John J. Tomasello, President	415 Commerce Lane, Suite 2, West Berlin, NJ 08091 140 Ryans Run, Sicklerville, NJ 08081	06/26/2015
<b>PL Stone &amp; Stucco</b> <b>Jozef Kosicky / Lucia Kosicky</b> Jozef Kosicky, Owner	15 Parkwood Dr., Apt. 1, South Amboy, NJ 08879 15 L Parkwood Dr., South Amboy, NJ 08879	03/31/2016
<b>Pozo Mechanical Inc.</b> Alipio H. Pozo, Owner	187 Cortlandt Street, Belleville, NJ 07109 187 Cortlandt Street, Belleville, NJ 07109	01/14/2016
<b>Precise Builders LLC</b> John Domingues, Owner	402 Market St, Newark, NJ 07105 402 Market St, Newark, NJ 07105	05/27/2017
<b>RAM Custom Flooring LLC</b> Andrew Smith, Owner	PO Box 26, Chatham, NJ 07928 1612 Edmund Terrace, Union, NJ 07087	08/06/2015

CONTRACTORS AND SUBCONTRACTORSADDRESSEXPIRATION DATE

<b>Ranco Mechanical, Inc.</b> Kenneth Davis, President Anthony Davis, Vice-President	P. O. Box 510, Augusta, NJ 07860 2 Melba Drive, Newton, NJ 07860 363 Northfield Avenue, Livingston, NJ 07039	10/28/2016
<b>Raymond Mozak Plumbing &amp; Heating</b> Raymond G. Mozak, Owner	1423 Teresa Drive, Fort Lee, NJ 07024 1423 Teresa Drive, Fort Lee, NJ 07024	09/03/2016
<b>Real Construction LLC</b> Arkadiusz Chwedczuk, Owner	1984 Whitesville Rd, Toms River, NJ 08757 716 11th Avenue, Toms River, NJ 08757	11/23/2017
<b>Ren Construction</b> Albert Chwedczuk, Owner	1984 Whitesville Road, Toms River, NJ 08755 1984 Whitesville Road, Toms River, NJ 087055	07/09/2017
<b>Retail Store Painting</b> John Thomas, President	202 Karen Drive, Scranton, PA 18505 202 Karen Drive, Scranton, PA 18505	01/12/2018
<b>Ribles Locksmith &amp; Hardware</b> Evelyn McDermott, Owner	613 15th Ave., Belmar, NJ 07719 613 15th Ave, Belmar, NJ 07719	07/10/2017
<b>Riteway Construction, Inc.</b> Isidro Mirassol, President	20 Cherry Hill Lane., Apt. D, Old Bridge, NJ 08857-4737 20 D Cherry Hill Lane, Old Bridge, NJ 08857	02/27/2015
<b>Robert M. Mesmer, LLC</b> Robert Mesmer, Managing Member	24 Sand Bridge Rd., Elmer, NJ 08318 24 Sand Bridge Road, Elmer, NJ 08318	12/11/2017
<b>Roncone Construction, L.L.C.</b> <b>Roncone Construction, L.L.C.</b> Leonardo Marques Roncone, Managing Member	275 Chestnut St., Store B #113, Newark, NJ 07114 192 Emmet St., Newark, NJ 07105	02/02/2018
<b>S &amp; J Contractors LLC</b> Janusz Brzezinski, President	2815 Green Ave, Bristol, PA 19007 PO Box 1118, Bristol, PA 19007	08/22/2015
<b>S &amp; S Carpet</b> Steven Simoni, President	25 Jocynnda Road, Flanders, NJ 07836 ..	10/10/2015
<b>S &amp; S Electric, LLC</b> Al Shan, President	108 Oak Glen Road, Toms River, NJ 08753 108 Oak Glen Road, Toms River, NJ 08753	01/12/2018
<b>Samco Construction Co. LLC</b> Anthony Mirabile, President	413-415 South Seventh St., Elizabeth, NJ 07202 413-415 South Seventh St., Elizabeth, NJ 07202	07/02/2016
<b>Saravia Concrete Pumping Corp.</b> Jerson Saravia, Owner	223-10, 113th St, Queens Village, NY 11429 223-10, 113th St, Queens Vaillage, NY 11429	08/18/2016
<b>Schenley Construction Inc.</b> Diane Deaver, President Kenneth Deaver, Vice-President	731 Warwick Turnpike, Hewitt, NJ 07421 29 Crystal Farm Rd., Warwick, NY 10990 29 Crystal Farm Rd., Warwick, NY 10990	09/20/2015
<b>Seaport Builders, L.L.C.</b> <b>Seaport Builders, L.L.C.</b> Grace Leatherman, Owner / Officer	505 Buhler Ave, % Grace Leatherman, Pine Beach, NJ 08741 611 Vista Ct., Pine Beach, NJ 08741	05/02/2015
<b>Seminole Construction, LLC</b> Sandra Morizzo, Managing Member	128 Bartlett Ave, West Creek, NJ 08092 311 Holyoke, Beach Haven, NJ 08008	12/19/2015
<b>Shoreline Marine Construction, LLC</b> Kenneth Pontari, Partner	213 West Edgewood Ave, Linwood, NJ 08221 213 West Edgewood Ave., Linwood, NJ 08221	06/03/2016
<b>South Jersey Boiler &amp; Burner Service, Inc.</b> Patricia Gheen, Secretary Timothy Gheen, President	178 Golfview Drive, Sewell, NJ 08080 178 Golfview Drive, Sewell, NJ 08080 178 Golfview Drive, Sewell, NJ 08080	02/03/2018
<b>SPMG Construction Inc.</b> Robledo Morais, President	3001 Route 130, Apt. 8D, Delrau, NJ 08075 3001 Route 130 Apt 8D, Delran, NJ 08075	03/31/2016
<b>SP-One LLC</b> Lee Dinenberg, President	2816 Coronado Way, Vero Beach, FL 32960 2816 Coronado Way, Vero Beacj, FL 32960	07/21/2016

CONTRACTORS AND SUBCONTRACTORSADDRESSEXPIRATION DATE

<b>Starr Contracting LLC</b>	<b>247 Raritan Boulevard, Cliffwood Beach, NJ 07735</b>	<b>02/27/2015</b>
Martin Starr, Owner / Officer	247 Raritan Boulevard, Cliffwood Beach, NJ 07735	
<b>Structural Safety Incorporated</b>	<b>716 White Horse Pike, Hammonton, NJ 08037</b>	<b>04/04/2015</b>
Gina Doyle, President	716 White Horse Pike, Hammonton, NJ 08037	
<b>Super Stars Construction Inc</b>	<b>58 Steiner Ave, Neptune City, NJ 07753</b>	<b>08/11/2017</b>
Juan Riano, Owner	58 Steiner Ave., Neptune City, NJ 07753	
<b>T. Fiore Demolition, Inc.</b> same	<b>457 Wilson Avenue, Newark, NJ 07105</b>	<b>04/02/2017</b>
Theodore Fiore, Owner	9 Silver Spring Court, East Hanover, NJ 07936	
<b>Tabor Acoustical, Inc.</b>	<b>431 South Main Street, Williamstown, NJ 08094</b>	<b>12/19/2015</b>
Joseph Gallagher, President	859 Coles Mill Road, Williamstown, NJ 08094	
<b>Tabor Mill Work of South Jersey, Inc.</b>	<b>858 Coles Mill Road, Williamstown, NJ 08094</b>	<b>01/09/2016</b>
Joseph Gallagher, President	858 Coles Mill Road, Williamstown, NJ 08094	
<b>TAU Associates Plumbing &amp; Mechanical LLC</b>	<b>91 Graham St., Jersey City, NJ 07307</b>	<b>12/17/2016</b>
Lek Tauthong, Owner	91 Graham St, Jersey City, NJ 07307	
<b>Team Equipment LLC</b> <b>William Morrissey</b>	<b>26 East Garden Place, Pompton Plains, NJ 07444</b>	<b>07/02/2016</b>
William Morrissey, President	59 Lynwood Road, Cedar Grove, NJ 07009	
<b>Tela Stretch Systems, LLC</b>	<b>9 Wycoff Terrace, Fair Lawn, NJ 07410</b>	<b>02/05/2016</b>
Robert Gude, Owner	9 Wycoff Terrace, Fairlawn, NJ 07410	
<b>Testa Corp.</b>	<b>360 Audubon Road, Wakefield, MA 01880</b>	<b>05/27/2017</b>
Steven D. Testa, Owner	6 North Hill Dr., Lynnfield, MA 01940	
<b>The Boca Bay Group</b>	<b>16 South Avenue West, Suite 267, Cranford, NJ 07016</b>	<b>05/20/2016</b>
Barbara Marano, President	163 Hillcreek Ave, Cranford, NJ 07016	
<b>The Grace Brothers</b>	<b>311 Colonial Road, Edgewater Park, NJ 08010</b>	<b>01/08/2017</b>
James T. Grace, Owner	14 Surrey Lane, Willingboro, NJ 08046	
Jethro Grace Jr., Owner	311 Colonial Road, Edgewater Park, NJ 08010	
<b>Thomas Clark Fiberglass, LLC</b>	<b>145 Old Halfway Road, Barnegat, NJ 08005</b>	<b>10/22/2017</b>
Thomas Clark, Owner / Officer	145 Old Halfway Rd., Barnegat, NJ 08005	
<b>TJD Construction</b> <b>Ted Dobrzanski</b>	<b>138 Stonehenge Dr, Toms River, NJ 08753</b>	<b>02/24/2017</b>
Ted Dobrzanski, CEO	138 Stonehenge Dr, Toms River, NJ 08753	
<b>Trinity Paving, LLC</b>	<b>245 Clayton Road, Monroeville, NJ 08343-2652</b>	<b>10/20/2017</b>
Michele Doyle, Member	115 Millstone Way, Monroeville, NJ 08343	
<b>Trinity Phoenix Corp.</b>	<b>149 Garfield Avenue, Staten Island, NY 10305</b>	<b>03/05/2016</b>
Mike Keller, Vice-President	233 Lexington Avenue, Dumont, NJ 07628	
Joseph Free, President	149 Garfield Avenue, Staten Island, NY 10305	
<b>Tri-State Insulators, LLC</b>	<b>1038 Old York Rd., Raritan, NJ 08869</b>	<b>07/17/2016</b>
Tracy Cavallaro, President	1038 Old York Road, Raritan, NJ 08869	
<b>True Line Wire Guidance Installation, Inc.</b>	<b>7095 Shaffer Drive, Downs, IL 61736</b>	<b>02/27/2015</b>
Kenneth C. Myszka, President	7095 Shaffer Drive, Downs, IL 61736	
<b>Turfscapes LLC</b>	<b>3477 So.Blackhorse Pike, Williamstown, NJ 08094</b>	<b>05/27/2017</b>
Jeffrey Grize, Owner	3477 S. Blackhorse Pike, Williamstown, NJ 08094	
<b>UBU Sports</b> <b>Turf Industry, Inc.</b>	<b>3525 Old Dixie Highway, Dalton, GA 30721</b>	<b>08/03/2017</b>
Mark Nicholls, President	3525 Old Dixie Highway, Dalton, GA 30721	
<b>United Lab Equipment, Inc.</b>	<b>136 Taylor Drive, Depew, NY 14043-3015</b>	<b>09/20/2015</b>
Ryan Hawkins, Manager	235 North Bryant St., Depew, NY 14086	

**CONTRACTORS AND SUBCONTRACTORS****ADDRESS****EXPIRATION DATE**

<b>United Metal Construction LLC</b> Andrew Juodenko, Owner / Officer	949 Spring View Drive, Southampton, PA 18966 949 Spring View Drive, South Hampton, PA 19114	10/24/2015
<b>Vercon Building &amp; Maintenance Corp.</b> Allanur Islambekov, Owner	11 Arboretum Drive, Jackson, NJ 08527 11 Arboretum Dr., Jackson, NJ 08527	05/11/2017
<b>Verrone Flooring, LLC.</b> Bill Verrone, Owner / Officer	57 Weinmanns Blvd., Wayne, NJ 07470 57 Weinmanns Blvd, Wayne, NJ 07470	02/15/2015
<b>Victor Construction , Inc</b> Tania Felix-Claudio, Owner	4615 N. Front St, 2nd Floor, Philadelphia, PA 19140 4615 N. front St., 2nd Floor, Philadelphia, PA 19140	04/22/2017
<b>Vito Braccia Concrete and Building Contractors Inc</b> Vito Braccia, President	536 Easton Road, Horsham, PA 19044 184 Fairway Road, Ambler, PA 19002	07/26/2015
<b>Wallmasters Modular Inc.</b> Timothy Morrison, President	226 Mutual Avenue, Winchester, KY 40391 2745 SR668N, Junction City, OH 43748	07/28/2017
<b>Waterrol, Inc.</b> Janice Papandrea, President	PO Box 163, Cranford, NJ 07016 1065 Johnston Drive, Watchung, NJ 07060	04/18/2015
<b>Wilder Drywall</b> <b>Wilder Drywall, Inc.</b> Susan Wilder, President	101 Lookout Pass, Stormville, NY 12582 101 Lookout Pass, Stormville, NY 12582	08/04/2016

LIST OF DEBARRED OWNERS/OFFICERS

2/5/2015

<u>Owners/ Officers</u>	<u>Address</u>	<u>Company Name</u>
Yitzhak Adika, Vice-President	76 Alpine Drive, Closter, NJ 07624	I.K.E. Electrical Corp.
Rebecca Adika, Secretary	76 Alpine Dr., Closter, NJ	I.K.E. Electrical Corp.
Noe Alatorre, Owner	30 Euclid Ave, Medford, NY 11763	Noe's Concrete Inc
Elizabeth S. Albert, Secretary	20 Wilson Avenue West, East Hanover, NJ 07936	Edward J. Albert & Son Inc.
Joseph Albert, Vice-President	28 Emanual Street, East Hanover, NJ 07936	Edward J. Albert & Son Inc.
Thomas E. Albert, President	1343 South Beverwyck Road, Parsippany, NJ 07054	Edward J. Albert & Son Inc.
John Albert, Vice-President	66 Cherokee Street, Rockaway, NJ 07866	Edward J. Albert & Son Inc.
George Antonas, President	114 Brace Road, Cherry Hill, NJ 08034	Midwest Construction, Inc.
Marvin Alexander Ardon, Owner	52 South Jefferson St., Orange, NJ 07050	Marvin Ardon Painting
Rony Barahona, Member	549 Summit Ave, Maplewood, NJ 07040	Bechi Contracting LLC (EBA Painters) Bechi Contracting LLC BCA Trucking, LLC
David Bastos, Managing Member	10 Pleasant Place, Kearny, NJ 07032	Beckett Enterprises, Inc.
Wesley J. Beckett Jr., President	110 Oak Avenue, Malaga, NJ 08328	Dean Development Inc.
William Bocra, President	One North Rhoda Street, Monroe Township, NJ 08831	Vito Braccia Concrete and Building Contractors In S & J Contractors LLC
Vito Braccia, President	184 Fairway Road, Ambler, PA 19002	Buckler Associates, Inc.
Janusz Brzezinski, President	PO Box 1118, Bristol, PA 19007	Cobra Communications & Installations, LLC
Bert L. Buckler, President	182 Wycoff Way West, East Brunswick, NJ 08816	Anchorage Construction Corp.
Giovanny Bustos, Owner	26 Spencer Place, Garfield, NJ 07026	Anchorage Construction Corp.
Lauren Campanella, President	948 Sinclair Avenue, Staten Island, NY 10309	I.K.E. Electrical Corp.
Andre Campanella, Vice-President	948 Sinclair Ave, Staten Island, NY 10309	Tri-State Insulators, LLC
Angelo Castelli, President	48 E. Central Blvd., Palisades Park, NJ 07650	Diamond State Wall Systems, LLC
Tracy Cavallaro, President	1038 Old York Road, Raritan, NJ 08869	Chalmers Construction LLC.
Nick Cerelli, Member	1640 Nixon Dr. Ste. 205, Moorestown, NJ 08057	Chanez Landscaping, LLC
Shawn Chalmers, Owner	337 Crown Street, Brooklyn, NY 11211	All County Pipeline & Site Excavation LLC
Noe Chanez, Principal	55 Miller Ave., Somerset, NJ 08873	All County Pipeline & Site Excavation LLC
Eric Charles, President	396 Cherry Lane, Mendham, NJ 07945	Real Construction LLC
Christine Charles, Vice-President	396 Cherry Lane, Mendham, NJ 07945	Ren Construction
Arkadiusz Chwedczuk, Owner	716 11th Avenue, Toms River, NJ 08757	Cityline Contracting Inc.
Albert Chwedczuk, Owner	1984 Whitesville Road, Toms River, NJ 087055	Thomas Clark Fiberglass, LLC
Andrzej Citak, Vice-President	556 Humboldt St, Brooklyn, NY 11222	MJM Painting LLC
Thomas Clark, Owner / Officer	145 Old Halfway Rd., Barnegat, NJ 08005	Peter Giancola & Sons Incorporated
Michael Contreras, Owner	77 Littleton Road, Morris Plains, NJ 07950	Peter Giancola & Sons Incorporated
Gregory J. Costa, President	2168 South Olden Avenue, Trenton, NJ 08610	Crider Americas Solar LLC
Vincent C. Costa, Vice-President	835 Estates Boulevard, Hamilton Township, NJ 08650	Joseph Csakvary, Inc.
Steven Crider, Member	507 Pressler Street, Apt. 2128, Austin, TX 78703	Cunhas Construction Inc.
Joseph Csakvary, President	163 Breakneck Road, Highland Lakes, NJ 07422	Ranco Mechanical, Inc.
Nuno Cunha, Owner	35 Carmen Ct., Newark, NJ 07105	Ranco Mechanical, Inc.
Anthony Davis, Vice-President	363 Northfield Avenue, Livingston, NJ 07039	Schenley Construction Inc.
Kenneth Davis, President	2 Melba Drive, Newton, NJ 07860	Schenley Construction Inc.
Diane Deaver, President	29 Crystal Farm Rd., Warwick, NY 10990	Elevator Medic Corporation
Kenneth Deaver, Vice-President	29 Crystal Farm Rd., Warwick, NY 10990	Ideal Elevator Services
Patrick Dell'Aquila, President	55 Brookview Drive, Woodcliff Lake, NJ 07677	Patrick Dell'Aquila
Patrick Dell'Aquila, President	55 Brookview Drive, Woodcliff Lake, NJ 07677	East Coast Touch Enterprises LLC
Nelson DeOliveira, President	276 Highland Ave, Kearney, NJ 07032	J.D.S Electric, Inc.
Joe DeSalvo, Jr., Owner	149 Montross Ave., Rutherford, NJ 07070	Metal Fab Atlantic LLC
John Dever, Owner	1086 Mays Landing Road, Somers Point, NJ 08234	Green Oasis Maintenance, Inc.
Franco S. DiMeglio, President	409 Bennetts Lane, Somerset, NJ 08873	SP-One LLC
Lee Dinenberg, President	2816 Coronado Way, Vero Beach, FL 32960	

<u>Owners/ Officers</u>	<u>Address</u>	<u>Company Name</u>
Dorothy Dobiecka, President	556 Humboldt Street, Brooklyn, NY 11222	Cityline Contracting Inc.
Florian Dobre, Partner	526 Sheridan Ave, Roselle, NJ 07203	B & B Atlantic LLC
Ted Dobrzanski, CEO	138 Stonehenge Dr, Toms River, NJ 08753	TJD Construction Ted Dobrzanski Precise Builders LLC
John Domingues, Owner	402 Market St, Newark, NJ 07105	Structural Safety Incorporated
Gina Doyle, President	716 White Horse Pike, Hammonton, NJ 08037	Trinity Paving, LLC
Michele Doyle, Member	115 Millstone Way, Monroeville, NJ 08343	Highway Safety Systems Inc.
William J. Doyle, President	200 Pine Rd., Hammonton, NJ 08037	Patriot Carpentry, LLC
Richard Dube, Principal	111 Coach House Square, Pooler, GA 31322	Anew Fence & Railings
Donald Eastmond, Owner	292 Church Street, Aberdeen, NJ 07747	Division Ten Installations, LLC
Kevin G. Eib, President	29 Monmouth Road, Monroe Twp., NJ 08831	JIC-ELCO Inc.
Frederick Ellis, President	2 Island Pond Road, Derry, NH 03038	Estrada & Roca LLC
Hector Estrada, Owner	432 52nd Street Apt 2, West New York, NJ 07093	Caro Corporation
Francesco Farro, President	21 Lakeview Court, Rockaway, NJ 07866	Victor Construction, Inc
Tania Felix-Claudio, Owner	4615 N. front St., 2nd Floor, Philadelphia, PA 19140	DM Fernandes Contracts LLC
Hugo Fernandes, Owner	90 Willow Street, Carteret, NJ 07008	Mar Builders Mar Builders, Inc.
Nuno Ferreira, President	295 Baltusol Way, Springfield, NJ 07081	D & B Partners LLC same
Michael F. Ferro Jr., Member	89 Jeanne Court, Stamford, CT 06905	T. Fiore Demolition, Inc. same
Theodore Fiore, Owner	9 Silver Spring Court, East Hanover, NJ 07936	Old City Remodeling
Fabricio Franco, Owner	1406 Lexington Pl., Elizabeth, NJ 07208	Blue Skies Electric L.L.C.
Scott Frasca, Manager	326 Coles Mill Road, Williamstown, NJ 08094	Blue Skies Electric L.L.C.
Rachel Frasca, Owner	326 Coles Mill Road, Williamstown, NJ 08094	Trinity Phoenix Corp.
Joseph Free, President	149 Garfield Avenue, Staten Island, NY 10305	Industrial Concrete Const. of NJ, Inc.
Lori A. Frisina, President	235 Grand Avenue, Rutherford, NJ 07070	East Commercial Construction
Stephen Gallagher, Owner	221 Coolidge Street, Suite 11, Linden, NJ 07036	Tabor Acoustical, Inc.
Joseph Gallagher, President	859 Coles Mill Road, Williamstown, NJ 08094	Tabor Mill Work of South Jersey, Inc.
Joseph Gallagher, President	858 Coles Mill Road, Williamstown, NJ 08094	Emanuel Drywall Services, Inc
Cesar Garcia, Owner	64 Grandview Ave, North Plainfield, NJ 07060	JTG Scaffolding & Hoisting LLC
Randy Garciga, Owner	13353 NE 17th Avenue, Miami, FL 33181	JD Scaffold Inc.
Randy Garciga, Owner	13353 NE 17th Avenue, North Miami, FL 33181	Garza Contracting LLC
John Garza, Owner	768 Chambers St., Trenton, NJ 08611	South Jersey Boiler & Burner Service, Inc.
Patricia Gheen, Secretary	178 Golfview Drive, Sewell, NJ 08080	South Jersey Boiler & Burner Service, Inc.
Timothy Gheen, President	178 Golfview Drive, Sewell, NJ 08080	D & B Partners LLC same
John Giannattasio, Member	89 Jeanne Court, Stamford, CT 06905	Peter Giancola & Sons Incorporated
Mark Gilbert, Secretary	89 Unwin Drive, Trenton, NJ 08610	CRC General Constructors Inc.
Antonio Gomes Jr., President	41 Hamilton Ave, Kearny, NJ 07032	Crossroad Construction Corp.
Antonio Gomes Sr., President	164 Green Street, Newark, NJ 07105	G&G Drywall, Inc.
Efrain Gonzalez, Owner	256 Grove St., North Plainfield, NJ 07060	Grab Heating and Air Conditioning, LLC.
Zbigniew Grabowski, Owner	35 Jersey Street, East Rutherford, NJ 07073	The Grace Brothers
James T. Grace, Owner	14 Surrey Lane, Willingboro, NJ 08046	The Grace Brothers
Jethro Grace Jr., Owner	311 Colonial Road, Edgewater Park, NJ 08010	Turfscapes LLC
Jeffrey Grize, Owner	3477 S. Blackhorse Pike, Williamstown, NJ 08094	Tela Stretch Systems, LLC
Robert Gude, Owner	9 Wycoff Terrace, Fairlawn, NJ 07410	John Gustafson Excavating, Inc.
John Gustafson, President	39 Charles Street, Montgomery, NY 12549	Harlow Contracting, Inc.
Albert J Harlow Jr, President	515 Summit Lane, Riegelsville, PA 18077	United Lab Equipment, Inc.
Ryan Hawkins, Manager	235 North Bryant St., Depew, NY 14086	4 S Logging & Lumber Co., Inc.
George Heigel, Vice-President	350 Main Street, Kersey, PA 15846	Metroplex Products Co. Inc.
Peter Herring, President	164 South Mocht Drive, Milltown, NJ 08850	DMH Trucking, Inc.
Joe Hilt, President	79 Myrtle Ave, Mickleton, NJ 08056	

<u>Owners/ Officers</u>	<u>Address</u>	<u>Company Name</u>
Calvin Hudson, Owner	126 Winding Ridge Road, Dover, DE 19904	Calvin's Floor Service, aka Calvin's Carpet Service
Allanur Islambekov, Owner	11 Arboretum Dr., Jackson, NJ 08527	Vercon Building & Maintenance Corp.
Henry Johnson, Owner	1258 N. East Avenue, Vineland, NJ 08360	Johnson's Construction Inc.
Carole Johnson, Secretary	390 Seneca Road, St marys, PA 15857	4 S Logging & Lumber Co., Inc.
Andrew Juodenko, Owner / Officer	949 Spring View Drive, South Hampton, PA 19114	United Metal Construction LLC
Mike Keller, Vice-President	233 Lexington Avenue, Dumont, NJ 07628	Trinity Phoenix Corp.
Kwang Hee Kim, Partner	685 Bergen Blvd., Ridgefield, NJ 07657	K&K Construction LLC
Ki Kuk Kim, Partner	685 Bergan Blvd., Ridgefield, NJ 07657	K&K Construction LLC
Elam King, Member	6285 Plank Road, Narvon, PA 17555	Keystone Steel Structures Inc.
Jozef Kosicky, Owner	15 L Parkwood Dr., South Amboy, NJ 08879	PL Stone & Stucco Jozef Kosicky / Lucia Kosicky
Zachary Kouhoupt, President	5923 Peach St, Mays Landing, NJ 08330	Natural View Landscapes LLC
Grace Leatherman, Owner / Officer	611 Vista Ct., Pine Beach, NJ 08741	Seaport Builders, L.L.C. Seaport Builders, L.L.C.
Alan Lombardi, President	26 Whispering Way, Berkeley Hights., NJ 07922	Lombardi Enterprises, Inc.
Ann Lombardi, Secretary	26 Whispeiring Way, Berkeley Hights, NJ 07922	Lombardi Enterprises, Inc.
Fernando Lopes, President	65-67 7th Ave., East 1st Floor, Newark, NJ 07104	MF Speed Construction, LLC.
Frank Loureier, Vice-President	152 Jefferson St., Newark, NJ 07105	East Coast Touch Enterprises LLC
Mark Lucas, Owner	, ,	Lucas Construction Services
Keith Ludwig, Member	459 Rt 38 West, Maple Shade, NJ 08052	HFM Labor Ready LLC HFM Labor Ready LLC
Robert Lueders, Owner	1008 Ridge Drive, Union, NJ 07083	ACC Contractors Corp.
Matus Madar, Managing Member	75 Hart Street, Sayreville, NJ 08872-1123	Jersey Wall Concepts, LLC
Barbara Marano, President	163 Hillcreek Ave, Cranford, NJ 07016	The Boca Bay Group
Tomasz Markowski, President	2026 Himrod Road, Ridgewood, NY 11385	Eastern American Renovation Corp.
Harold Marshall, Jr., Member	1800 Eva Street, Austin, TX 78704	Crider Americas Solar LLC
Rogério Martins, Vice-President	46 Grove Street, South River, NJ 08882	Globo Contracting Corporation
Antonio Martins, President	215 Princeton Road, Parlin, NJ 08859	Globo Contracting Corporation
Manuel Martins, Treasurer	15 Center Street, South River, NJ 08882	Globo Contracting Corporation
Vincent Mattina, Owner	22 Toms River Rd, Jackson, NJ 08527	Mattina Construction LLC
Lisa Mautone, Member	25 Roberts Road, Holmdel, NJ 07733	AMC Industries LLC same
Anna Mautone, Member	88 Stilwell Road, Holmdel, NJ 07733	AMC Industries LLC same
Denise Mautone, Member	18A South Bears Street, Holmdel, NJ 07733	AMC Industries LLC same
Evelyn McDermott, Owner	613 15th Ave, Belmar, NJ 07719	Ribles Locksmith & Hardware
George McGee, President	99 Hillside Terrace, Parsippany, NJ 07054	GM Masonry, Inc.
Artem Melnyk, Member	8653 Glenloch Street #2, Philadelphia, PA 19136	A & M Remodelling
Daniel Mena, Owner	1002 Taunton Ave, West Berlin, NJ 08091	Designer Impressions
Robert Mesmer, Managing Member	24 Sand Bridge Road, Elmer, NJ 08318	Robert M. Mesmer, LLC
Anthony Mirabile, President	413-415 South Seventh St., Elizabeth, NJ 07202	Samco Construction Co. LLC
Isidro Mirassol, President	20 D Cherry Hill Lane, Old Bridge, NJ 08857	Riteway Construction, Inc.
Keith Mishoe, Owner	341 Seaton Avenue, Roselle Park, NJ 07204	Chalmers Construction LLC.
William Mitchell, Owner	22 Greenwood Place, Flemington, NJ 08822	OCM Construction OCM Construction, LLC
Brad J. Moini, President	101 Buttonwood Lane, Freehold, NJ 07728	Brothers Landscaping J.H. Brothers Inc.
Frank Montgomery, Owner	42 Bryant Rd., Waretown, NJ 08758	Frank Montgomery Builder
Robledo Morais, President	3001 Route 130 Apt 8D, Delran, NJ 08075	SPMG Construction Inc.
Sandra Morizzo, Managing Member	311 Holyoke, Beach Haven, NJ 08008	Seminole Construction, LLC
Timothy Morrison, President	2745 SR668N, Junction City, OH 43748	Wallmasters Modular Inc.
William Morrissey, President	59 Lynwood Road, Cedar Grove, NJ 07009	Team Equipment LLC William Morrissey

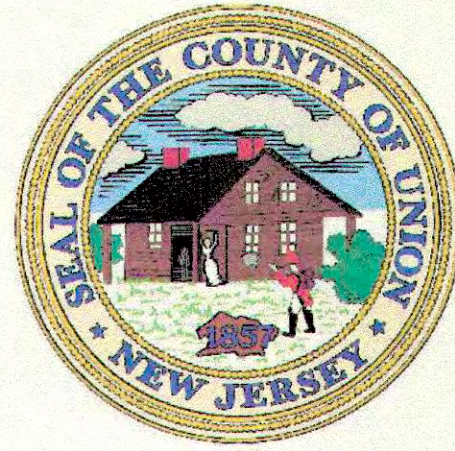
<u>Owners/ Officers</u>	<u>Address</u>	<u>Company Name</u>
Shawn F. Mowery, Member	1A Maple Leaf Drive, Holmdel, NJ 07733	Monmouth Construction LLC same
Raymond G. Mozak, Owner	1423 Teresa Drive, Fort Lee, NJ 07024	Raymond Mozak Plumbing & Heating
Frank J. Muratore Jr., Owner	1828 Herbert Boulevard, Williamstown, NJ 08094	Frank J. Muratore, Jr., Inc. Frank J. Muratore
William Muzzio Jr., Owner	597 Lyman Ave, Woodbridge, NJ 07095	Citadel Environmental Consultants
Kenneth C. Myszka, President	7095 Shaffer Drive, Downs, IL 61736	True Line Wire Guidance Installation, Inc.
Mark Nicholls, President	3525 Old Dixie Highway, Dalton, GA 30721	UBU Sports Turf Industry, Inc.
UJU A. Obiorah, President	259 West Forest Avenue, Englewood, NJ 07631	Envirocare Enterprises, Inc. Envirocare Enterprises, Inc.
Inno Obiorah, Manager	658 Rutgers Pl, Paramus, NJ 07652	Envirocare Enterprises, Inc. CGT Construction, Inc.
Thomas O'Connell, President	449 Grace Hill Road, Monroe, NJ 08817	American Air Systems Group
Thomas O'Connell, President	499 Grace Hill Road, Monroe Twp, NJ 08837	Ohana Metal & Iron Works Inc.
Erezy Ohana, Owner	60 Miller Road, Montgomery, NY 12549	Pinnaele Construction & Renovation Corp.
Roman Olejnik, President	1882 Putnam Ave., Ridgewood, NY 11385	Caslo Drywall Corp.
Luis Oliveras, Owner	644 East 2nd St., Plainfield, NJ 07060	American Welding Services American Welding Services, Inc.
Brian O'Shea, Owner	1041 Glassboro Rd. D-2, Williamstown, NJ 08094	Watertrol, Inc.
Janice Papandrea, President	1065 Johnston Drive, Watchung, NJ 07060	Coplen Management, Inc.
Mahesh Patel, Owner	828 Highland Ave, Paramus, NJ 07652	Patti Construction, LLC
James Patti, Owner	, ,	Pax Construction Corp.
Julio Pereira, Vice-President	304 Crimson Circle, Oakhurst, NJ 07755	Pax Construction Corp.
Antonio Pereira, President	159 Locust Avenue, West Long Branch, NJ 07764	PER Construction LLC
Manuel Pereira, Owner	194 Monmouth Ave., Long Branch, NJ 07740	BP Enterprises, Inc.
Branson Pickney, Owner	408 West 129th Street, Apt. 7, New York, NY 10027	Fortress Construction Co., Inc.
Fernando F. Pinho, President	66 6 th Ave., Long Branch, NJ 07740	Five Star Quality Construction
Alicirio Jose Santana Pires, Owner	141 RT. 130 South, Suite 192, Cinnaminson, NJ 08077	Shoreline Marine Construction, LLC
Kenneth Pontari, Partner	213 West Edgewood Ave., Linwood, NJ 08221	Centurion Companies Inc.
Christopher Poppe, President	317 Greenridge Road, Franklin Lakes, NJ 07417	Centurion Companies Inc.
Glen P. Poppe, Secretary	795 Susquehanna Ave, Franklin Lakes, NJ 07417	Pozo Mechanical Inc.
Alipio H. Pozo, Owner	187 Cortlamdt Street, Belleville, NJ 07109	Green Diamond Roofing & Live Roof, LLC
Jazmine Price, President	744 South St Unit 65, Philadelphia, PA 19147	Super Stars Construction Inc
Juan Riano, Owner	58 Steiner Ave., Neptune City, NJ 07753	Ocean Blue Builders LLC
John Riley Jr, Managing Member	140 Harrison Avenue, Fair Haven, NJ 07704	Estrada & Roca LLC
Jose Roca, Owner	468 9th St, Apt # 2, Palisades Park, NJ 07650	Ronccone Construction, L.L.C. Ronccone Construction, L.L.C.
Leonardo Marques Ronccone, Managing Memb	192 Eminent St., Newark, NJ 07105	James Rough Bleachers GSR Architectural, Inc
James Rough, Owner	12767 Van Horne Rd., Meadville, PA 16335	IBS, Inc.
Gary Russo, President	3 Premier Way, Manalapan, NJ 07726	AB Contracting & Developmernt LLC
Christopher Rymal, Owner	1929 Darby Rd., Havertown, PA 19083	Artco Contracting & Development Artco Contracting & Development, Inc.
Michael Santos, President	988 Johnson Place, Apt. 4, Union, NJ 07083	Saravia Concrete Pumping Corp.
Peter Santos, President	35 Elmwood Ave, Unit 2B, Union, NJ 07083	Jamcon Construction LLC
Jerson Saravia, Owner	223-10, 113th St, Queens Vaillage, NY 11429	Allied Construction LLC. Allied Construction Management, LLC
John Schiavo, Managing Member	6 Justa Lane, Cherry Hill, NJ 08003	Infinity Construction & Son, LLC
Alfred Sciubba, Managing Member	3 Chadwick Drive, Voorhees Twp., NJ 08043	Paul Sexton
Pat Sellitti, Owner	870 Lamont Ave., Staten Island, NY 10309	S & S Electric, LLC
Paul Sexton, Owner	462 10th Ave., Paterson, NJ	4 S Logging & Lumber Co., Inc.
Al Shan, President	108 Oak Glen Road, Toms River, NJ 08753	CPS Mechanical Contractors, Inc.
Shawn Sheeley, President	130 Sheeley Road, Kersey, PA 15846	D. Simonetti, Inc.
Margaret Sherman, President	203 Woods Avenue, Bergenfield, NJ 07621	
David Simonetti, Vice-President	8 Hightor Road, New City, NY 10956	



<u>Owners/ Officers</u>	<u>Address</u>	<u>Company Name</u>
Domenico Simonetti, President	6 Hanford Place, Tarrytown, NY 10591	D. Simonetti, Inc.
Steven Simoni, President	, ,	S & S Carpet
Andrzej Skora, President	67 Cox Cro Road, Toms River, NJ 08755	A.J. Skora Inc.
Gary W. Smith, President	584 Erial Road, Sicklerville, NJ 08081	G.W. Smith Construction, Inc.
Lisa L. Smith, Vice-President	584 Erial Road, Sicklerville, NJ 08081	G.W. Smith Construction, Inc.
Andrew Sinith, Owner	1612 Edmund Terrace, Union, NJ 07087	RAM Custom Flooring LLC
John Sorrentino, Owner	65 Fern St, Browns Mills, NJ 08015	Barzzini Construction
Martin Starr, Owner / Officer	247 Raritan Boulevard, Cliffwood Beach, NJ 07735	Starr Contracting LLC
George Tassogloy, Owner	105 Cedar Ave, Woodlynne, NJ 08107	George's Carpet George Tassogloy TAU Associates Plumbing & Mechanical LLC
Lek Tauthong, Owner	91 Graham St, Jersey City, NJ 07307	Testa Corp.
Steven D. Testa, Owner	6 North Hill Dr., Lynnfield, MA 01940	Retail Store Painting
John Thomas, President	202 Karen Drive, Scranton, PA 18505	MG Topflight
Ashish Thomas, Owner	6 Spruce Meadows Dr., Monroe, NJ 08831	Pitbull Electric, Inc.
John J. Tomasello, President	140 Ryans Run, Sicklerville, NJ 08081	NDA & Construction, LLC
Nester Torres, Owner	161 Thomas St, Unit 1, Newark, NJ 07114	L and Y Roofing, LLC
Luis Vargas, Owner	291 Jefferson Street, Paterson, NJ 07522	Verrone Flooring, LLC.
Bill Verrone, Owner / Officer	57 Weinmanns Blvd, Wayne, NJ 07470	Nicola Matera & Sons L.L.C.
Sheila Vlasich, Managing Member	7 Ginkgo Court, Upper Saddle River, NJ 07458	Nicola Matera & Sons L.L.C.
William Vlasich, Managing Member	7 Ginkgo Court, Upper Saddle River, NJ 07458	K & S Fabrication & Welding, LLC
Simon Walcott, Owner	43 Fairview Avenue, Bergenfield, NJ 07621	Euro Construction
Ireneusz Waluk, Owner	70 Bordentown-Chesterfiel, Rd., Chesterfield, NJ 08515	Wilder Drywall Wilder Drywall, Inc. Advanced Spray Technology
Susan Wilder, President	101 Lookout Pass, Stormville, NY 12582	National Architectural Products Inc. National Architectural Products Inc. MF Speed Construction, LLC.
Robert Woods, President	6384 Tollgate Road, Zionsville, PA 18092	Mason Tech, LLC
Antonene Yuhasz, President	4 Grant Dr., Cream Ridge, NJ 08510	Mason Tech, LLC
James Yuhasz, Vice-President	4 Grant Dr., Cream Ridge, NJ 08514	ACC Construction LLC
Magda Zamprogno, Other	65-67 7th Ave., East 1st Floor, Newark, NJ 07104	Noreast, Inc.
Mariusz Zielonka, President	30 Carolyn Ct., E. Hanover, NJ 07936	Noreast, Inc.
Iwona Zielonka, Vice-President	30 Carolyn Ct., E. Hanover, NJ 07936	American Eagle Contractor, Inc.
Christopher Zimmermann, President	2303 Owen Court, Toms River, NJ 08755	
Karen Zohak, Vice-President	210 Orange Avenue, Cranford, NJ 07016	
David Zohak, President	210 Orange Avenue, Cranford, NJ 07016	
Agustin Zuniga, President	420 Broadway, Long Branch, NJ 07740	







# COUNTY OF UNION

## BOARD OF CHOSEN FREEHOLDERS

### 2015 COUNTY AID RESURFACING PROJECT (CA-2014)

#### FEBRUARY 2015

**TOWNSHIP OF CRANFORD**  
**BOROUGH OF KENILWORTH**  
**BOROUGH OF ROSELLE**  
**CITY OF SUMMIT**

**CITY OF ELIZABETH**  
**CITY OF LINDEN**  
**TOWNSHIP OF SCOTCH PLAINS**  
**TOWN OF WESTFIELD**

**BOROUGH OF FANWOOD**  
**CITY OF RAHWAY**  
**TOWNSHIP OF SPRINGFIELD**

**BA NO. 10-2015    UNION COUNTY    PROJECT NO. 2014 - 038**

**PUBLIC UTILITIES**

COMCAST CABLEVISION OF NJ  
 800 RAHWAY AVENUE  
 UNION CITY, NEW JERSEY 07083  
 ATTN: RICH GUGULSKI

ELIZABETHTOWN GAS  
 520 GREEN LANE  
 UNION, NEW JERSEY 07083  
 ATTN: GREGORY J. BALINT, PROJECT ENGINEER

JERSEY CENTRAL POWER & LIGHT COMPANY  
 331 NEWMAN SPRINGS ROAD  
 REDBANK, NEW JERSEY 07701  
 ATTN: JANIS LEWANDOWSKI

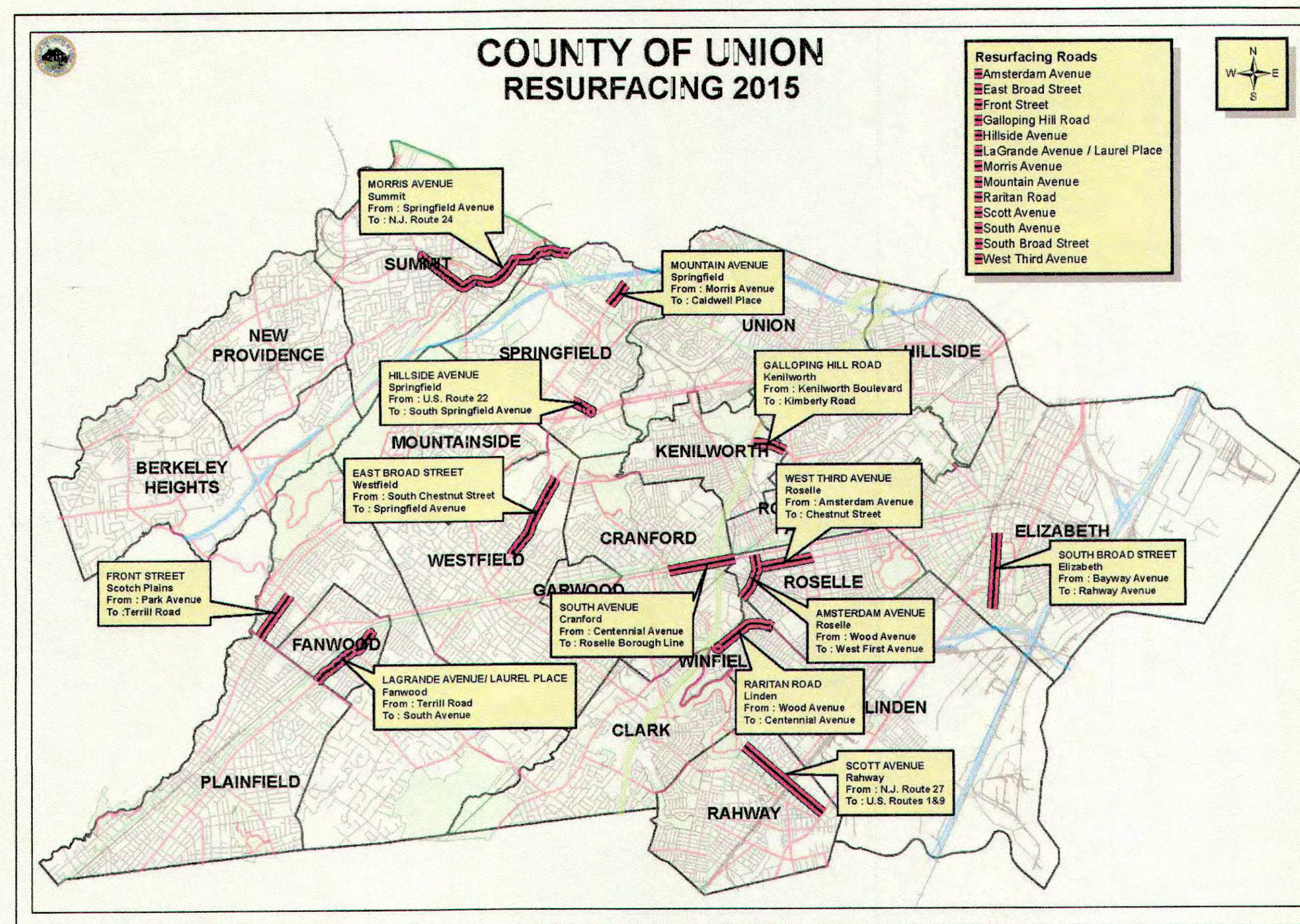
NJ AMERICAN WATER  
 1341 NORTH AVENUE  
 PLAINFIELD, NEW JERSEY 07061  
 ATTN: SCOTT SCHREIBER

PSE&G - GAS ASSET INTEGRATION  
 80 PARK PLAZA, T-12  
 NEWARK, NJ 07102  
 ATTN: LORI MATHEWS

UNITED WATER  
 1045 WESTFIELD AVENUE  
 RAHWAY, NEW JERSEY 07085  
 ATTN: KEVIN J. BAMBURAK

VERIZON COMMUNICATION  
 6000 HADLEY ROAD  
 SOUTH PLAINFIELD, NJ 07080  
 ATTN: BILL HIGGINS, ENGINEERING DEPT.

THE CONTRACTOR SHALL CONTACT NJ ONE CALL AT 811 OR 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.



INDEX OF SHEETS	
SHEET No.	DESCRIPTION
CP-1	TITLE SHEET
CP-2	ESTIMATE & DISTRIBUTION OF QUANTITIES
CP-3	LEGEND, NOTES AND TYPICAL SECTIONS
CP-4	CONSTRUCTION PLANS - SOUTH AVENUE
CP-5 TO CP-6	CONSTRUCTION PLANS - S. BROAD STREET
CP-7 TO CP-8	CONSTRUCTION PLANS - LAGRANDE AVENUE / LAUREL PLACE
CP-9 TO CP-10	CONSTRUCTION PLANS - GALLOPING HILL ROAD
CP-11 TO CP-13	CONSTRUCTION PLANS - RARITAN ROAD
CP-14 TO CP-16	CONSTRUCTION PLANS - SCOTT AVENUE
CP-17 TO CP-18	CONSTRUCTION PLANS - AMSTERDAM AVENUE
CP-19 TO CP-20	CONSTRUCTION PLANS - W. 3rd AVENUE
CP-21	CONSTRUCTION PLANS - FRONT STREET
CP-22	CONSTRUCTION PLANS - HILLSIDE AVENUE
CP-23	CONSTRUCTION PLANS - MOUNTAIN AVENUE
CP-24 TO CP-29	CONSTRUCTION PLANS - MORRIS AVENUE
CP-30 TO CP-31	CONSTRUCTION PLANS - E. BROAD STREET
D-1 TO D-7	CONSTRUCTION DETAILS
MPT-1 TO MPT-12	MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS

**APPROVALS**

RECOMMENDED FOR APPROVAL BY: Thomas O. Mineo DATE: 2/11/15  
THOMAS O. MINEO, P.E., COUNTY ENGINEER

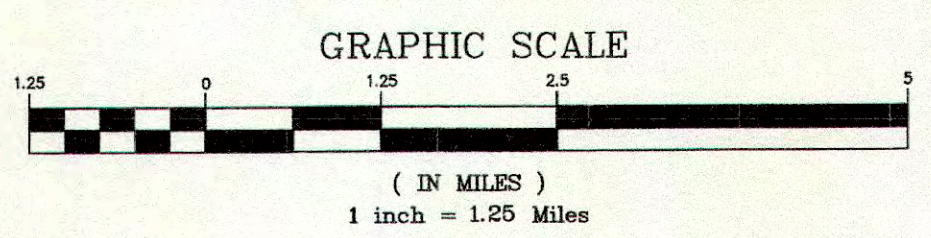
APPROVED BY: Arred J. Faella DATE: 2/11/15  
ARRED J. FAELLA, COUNTY MANAGER

**NOTES**

NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2007 WITH AMENDMENTS THERETO TO GOVERN

STANDARD ROADWAY CONSTRUCTION/TRAFFIC CONTROL/ BRIDGE CONSTRUCTION DETAILS BOOKLET, 2007 AND STANDARD ELECTRICAL DETAILS BOOKLET, 2007 ARE APPLICABLE TO THIS PROJECT EXCEPT FOR THOSE DETAILS CONTAINED HEREIN.

Municipality	Street	Rte. No.	From	To	Length (miles)
Cranford Twp.	South Ave.	610	Centennial Ave.	Roselle Borough Line	0.84
Elizabeth City	South Broad St.	623	Bayway	Rahway Ave.	1.01
Fanwood Boro.	LaGrande Ave. / Laurel Pl.	601	Terrill Road	South Ave.	1.02
Kenilworth Boro.	Galloping Hill Road	509	Northbound GSP ramps	Kimberly Road	0.34
Linden City	Raritan Road	607	Centennial Ave.	Wood Ave.	0.86
Rahway City	Scott Ave	652	Rt. 27	Rts. 1&9	1.38
Roselle Boro.	Amsterdam Ave	617	Wood Ave	W First Ave.	0.62
	W. 3rd Ave.	612	Amsterdam Ave.	Chestnut St.	0.76
Scotch Plains Twp.	Front St	620	Terrill Road	Park Ave.	0.58
Springfield Twp.	Hillside Ave	659	S. Springfield Ave.	Route 22	0.29
	Mountain Ave.	635	Caldwell Pl.	Morris Ave.	0.34
Summit City	Morris Ave.	527 / 651	Springfield Ave.	Route 124	2.32
Westfield Town	E. Broad St.	509	S. Chestnut St.	Springfield Ave	1.18
				Total	11.64



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PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

NO.	REVISION	DATE	BY	CHK. BY

**TITLE SHEET**

**2015 COUNTY AID RESURFACING PROJECT**  
 UNION COUNTY, NEW JERSEY

DATE: 2-11-15

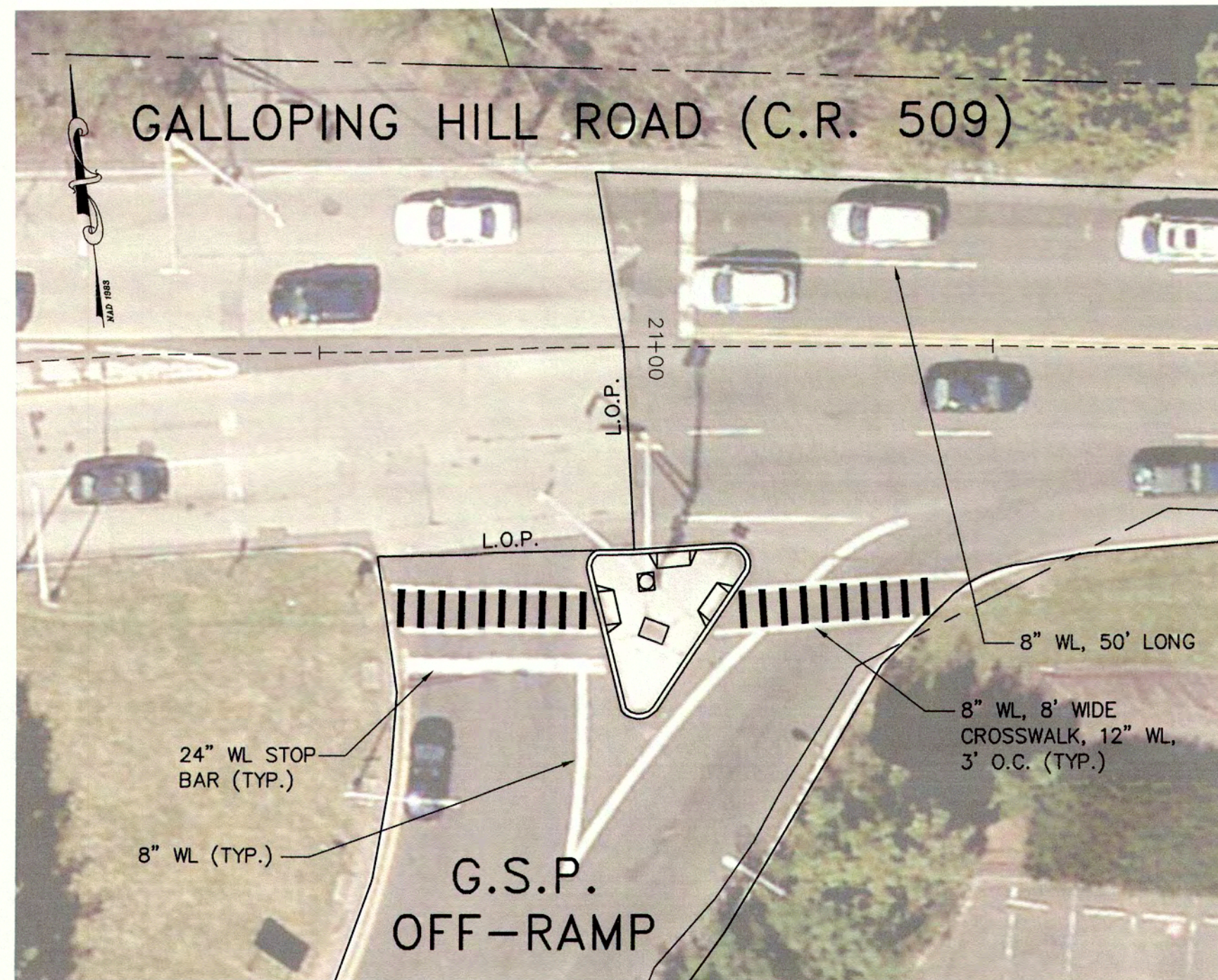
**RICHARD G. ARANGO** NJ PROFESSIONAL ENGINEER LIC. No. 38882  
**FRANK J. SENEY JR.** NJ PROFESSIONAL ENGINEER LIC. No. 35321

**REMINGTON, VERNICK & ARANGO ENGINEERS**  
 300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094  
 (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM  
 Certificate of Authorization: 24 64 29003800

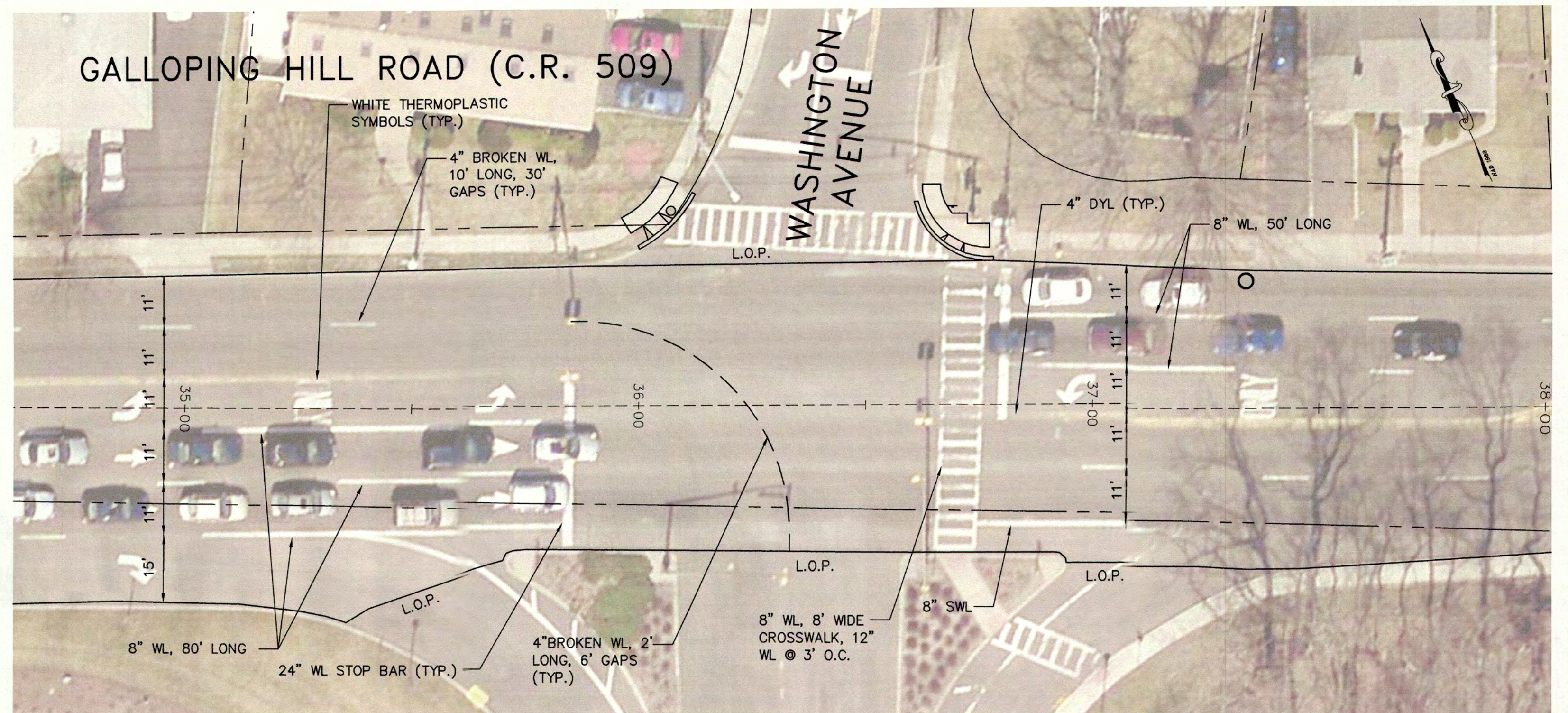
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY	DWG. NO.	SHEET. NO.
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015	1 OF 50

DWG. FILE PATH/NAME: T:\Transportation\Bridge\Union County\2000X015 - 2015 Road Resurfacing\Drawings\K-2000X015-01.dwg

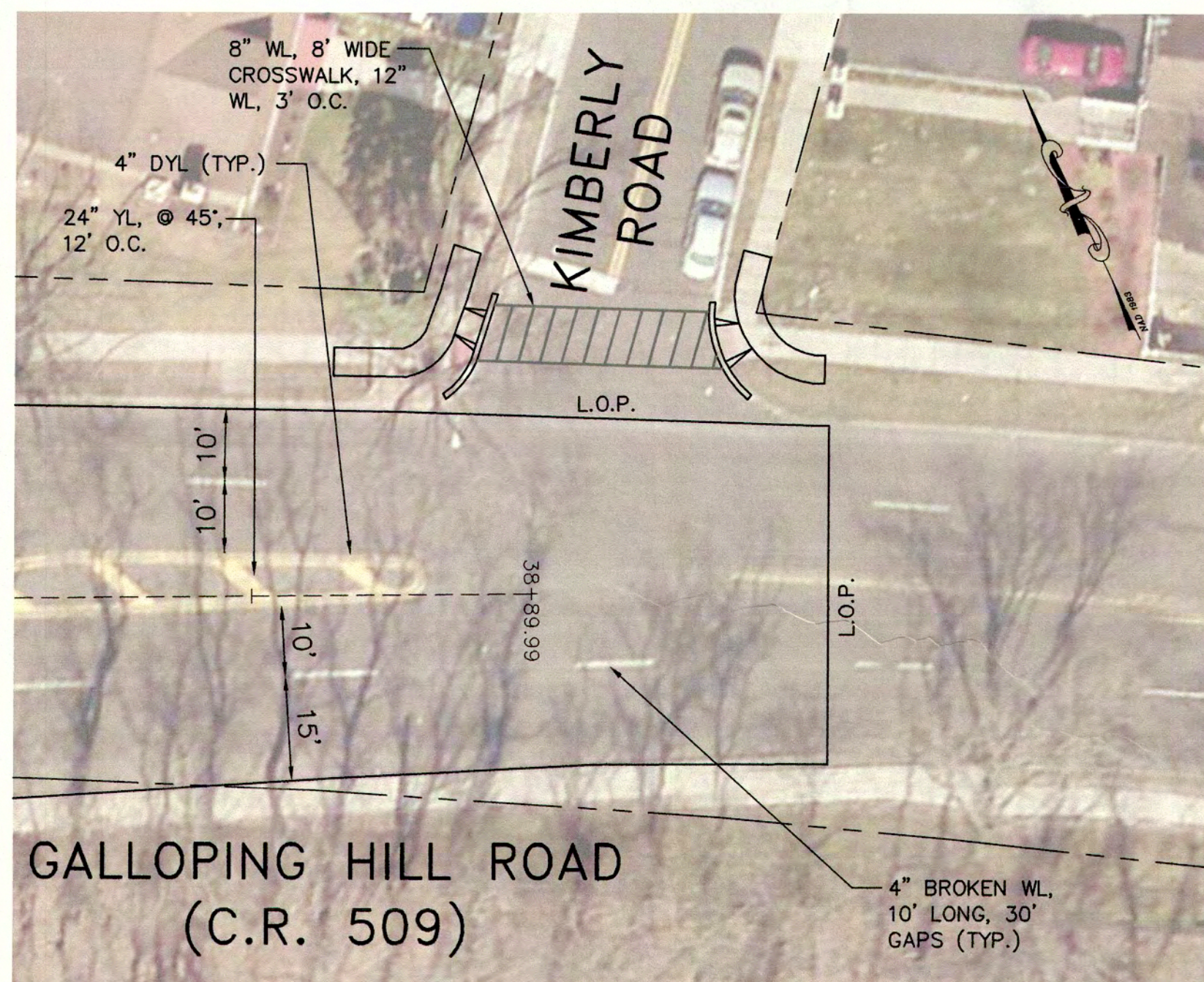




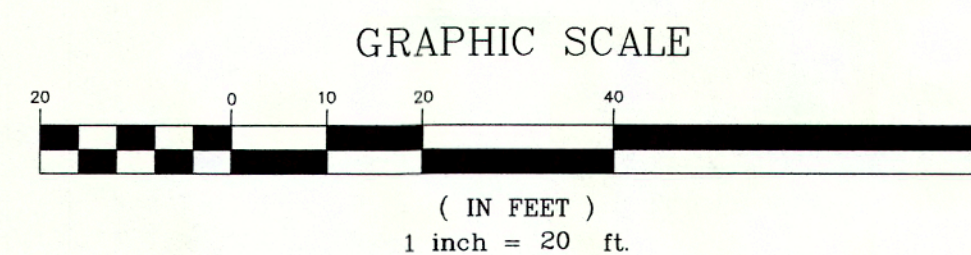
**STRIPING PLAN - GALLOPING HILL ROAD & G.S.P. OFF-RAMP**  
SCALE: 1" = 20'



**STRIPING PLAN - GALLOPING HILL ROAD & WASHINGTON AVENUE**  
SCALE: 1" = 20'



**STRIPING PLAN - GALLOPING HILL ROAD & KIMBERLY ROAD**  
SCALE: 1" = 20'



CP-10  
CP-31

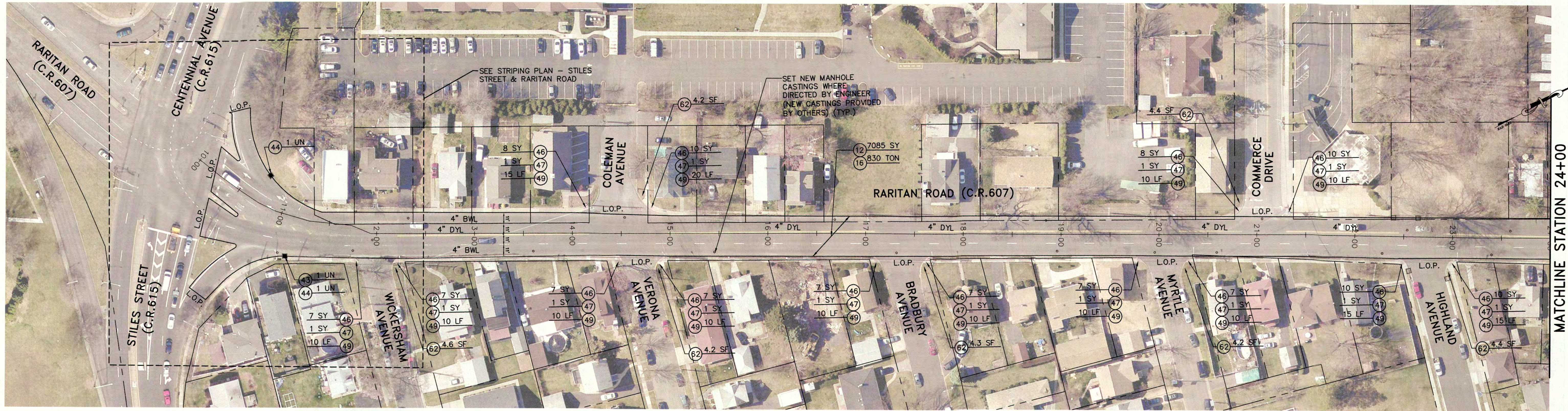
ALL DOCUMENTS PREPARED BY REMINGTON, VERNICK & ARANGO ENGINEERS ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT.

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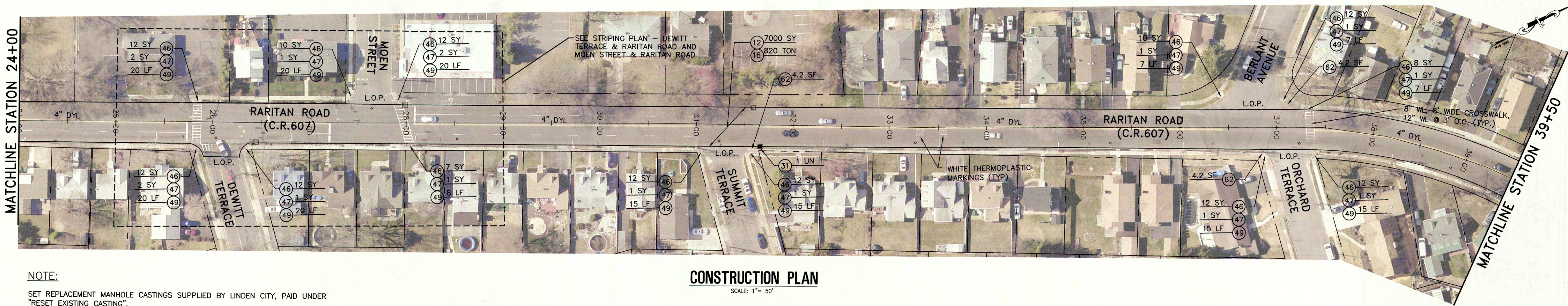
NO.	REVISION	DATE	BY	CHK.	BY
<b>GALLOPING HILL ROAD</b>					
<b>2015 COUNTY AID</b>					
<b>RESURFACING PROJECT</b>					
KENILWORTH BOROUGH, UNION COUNTY, NEW JERSEY					
DATE:		DATE: <i>2-13-15</i>			
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882		<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321			
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b>					
300 PENHORN AVENUE, 3RD FLOOR, SECAUJUS, NJ 07094 (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RV&A.COM Certificate of Authorization: 24 GA 28003800					
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY	DWG. NO.
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015
SHEET NO.					10 OF 50
DWG. FILE PATH/NAME I:\Transportation_Bridge\Union County\2000X015 - 2015 Road Resurfacing\Drawings\R-2000X015-GALLOPING-HILL.dwg					





**CONSTRUCTION PLAN**

SCALE: 1" = 50'

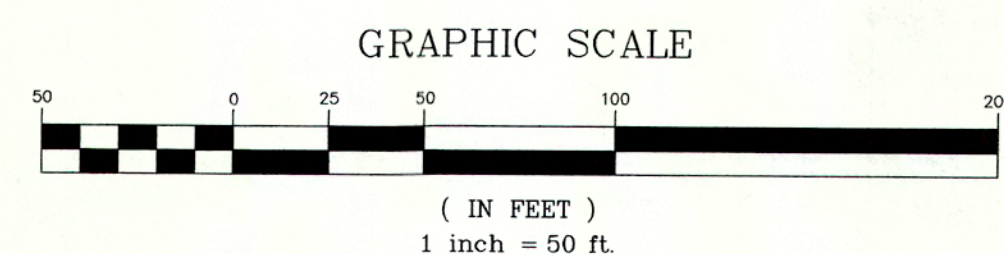


**CONSTRUCTION PLAN**

SCALE: 1" = 50'

**NOTE:**  
SET REPLACEMENT MANHOLE CASTINGS SUPPLIED BY LINDEN CITY, PAID UNDER "RESET EXISTING CASTING".

TO BE CONSTRUCTED				
ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	AS BUILT QUANTITY
12	HMA MILLING, 3" OR LESS	SY	14085	
16	HOT MIX ASPHALT 9.5M84 SURFACE COURSE	TON	1650	
24	RESET EXISTING CASTING	UN	27	
31	RECONSTRUCTED INLET, TYPE B, USING EXISTING CASTING	UN	1	
43	BICYCLE SAFE GRATE	UN	1	
44	CURB PIECE	UN	2	
46	CONCRETE SIDEWALK, 4" THICK	SY	255	
47	DETECTABLE WARNING SURFACE	SY	30	
49	10" X 20" CONCRETE VERTICAL CURB	LF	354	
52	TRAFFIC STRIPES, THERMOPLASTIC, 4"	LF	5360	
53	TRAFFIC STRIPES, THERMOPLASTIC, 8"	LF	840	
54	TRAFFIC STRIPES, THERMOPLASTIC, 12"	LF	466	
55	TRAFFIC STRIPES, THERMOPLASTIC, 24"	LF	141	
56	TRAFFIC MARKINGS, THERMOPLASTIC	SF	183	
57	RPM, MONO-DIRECTIONAL, WHITE LENS	UN	58	
58	RPM, MONO-DIRECTIONAL, AMBER LENS	UN	6	
59	RPM, BI-DIRECTIONAL, AMBER LENS	UN	38	
62	ACCESSORY PANEL, TYPE DF	SF	42	



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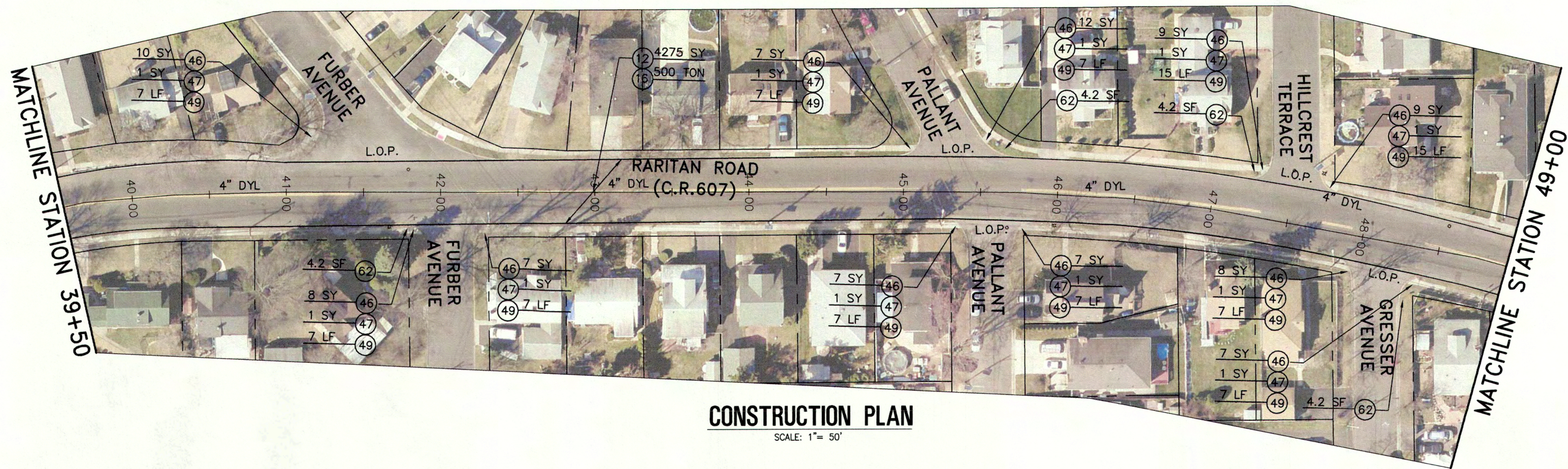
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NO.	REVISION	DATE	BY	CHK. BY
<b>RARITAN ROAD</b> <b>2015 COUNTY AID</b> <b>RESURFACING PROJECT</b> LINDEN CITY, UNION COUNTY, NEW JERSEY				
DATE:	 2-13-15			
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882		<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321		
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b> 300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094 (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM Certificate of Authorization: 24 GA 28003800				
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.
DWG. NO.	2000X015	SHEET. NO.		11 OF 50
DWG. FILE PATH/NAME T:\Transportation_Bridge\Union County\2000X015 - 2015 Road Resurfacing\Drawings\2000X015-RARITAN RD.dwg				

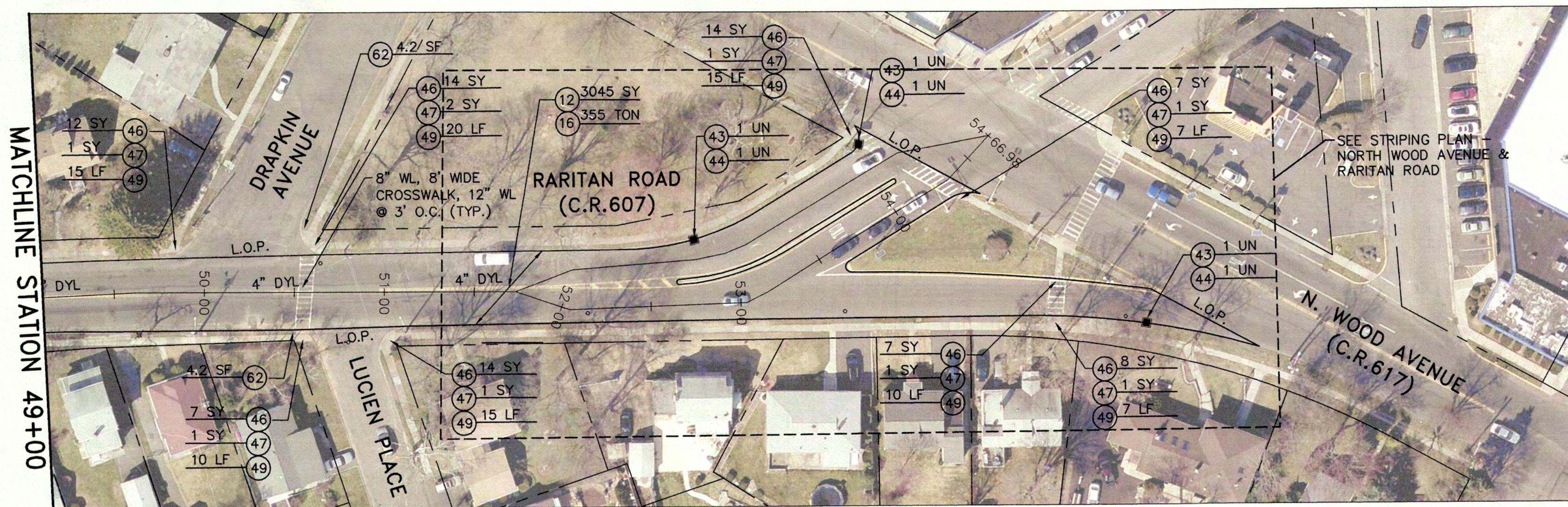
CP-11  
CP-31





**CONSTRUCTION PLAN**

SCALE: 1" = 50'



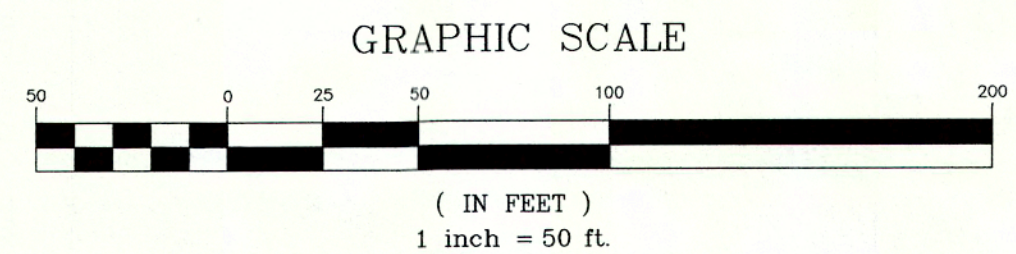
**CONSTRUCTION PLAN**

SCALE: 1" = 50'

**NOTE:**

SET REPLACEMENT MANHOLE CASTINGS SUPPLIED BY LINDEN CITY, PAID UNDER "RESET EXISTING CASTING".

TO BE CONSTRUCTED				
ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	AS BUILT QUANTITY
12	HMA MILLING, 3" OR LESS	SY	7320	
16	HOT MIX ASPHALT 9.5M/4 SURFACE COURSE	TON	855	
24	RESET EXISTING CASTING	UN	7	
43	BICYCLE SAFE GRATE	UN	3	
44	CURB PIECE	UN	3	
46	CONCRETE SIDEWALK, 4" THICK	SY	174	
47	DETECTABLE WARNING SURFACE	SY	20	
49	10" X 20" CONCRETE VERTICAL CURB	LF	192	
52	TRAFFIC STRIPES, THERMOPLASTIC, 4"	LF	2210	
53	TRAFFIC STRIPES, THERMOPLASTIC, 8"	LF	510	
54	TRAFFIC STRIPES, THERMOPLASTIC, 12"	LF	336	
55	TRAFFIC STRIPES, THERMOPLASTIC, 24"	LF	50	
56	TRAFFIC MARKINGS, THERMOPLASTIC	SF	85	
57	RPM, MONO-DIRECTIONAL, WHITE LENS	UN	2	
58	RPM, MONO-DIRECTIONAL, AMBER LENS	UN	10	
59	RPM, BI-DIRECTIONAL, AMBER LENS	UN	23	
62	ACCESSORY PANEL, TYPE DF	SF	25.2	



CP-12  
CP-31

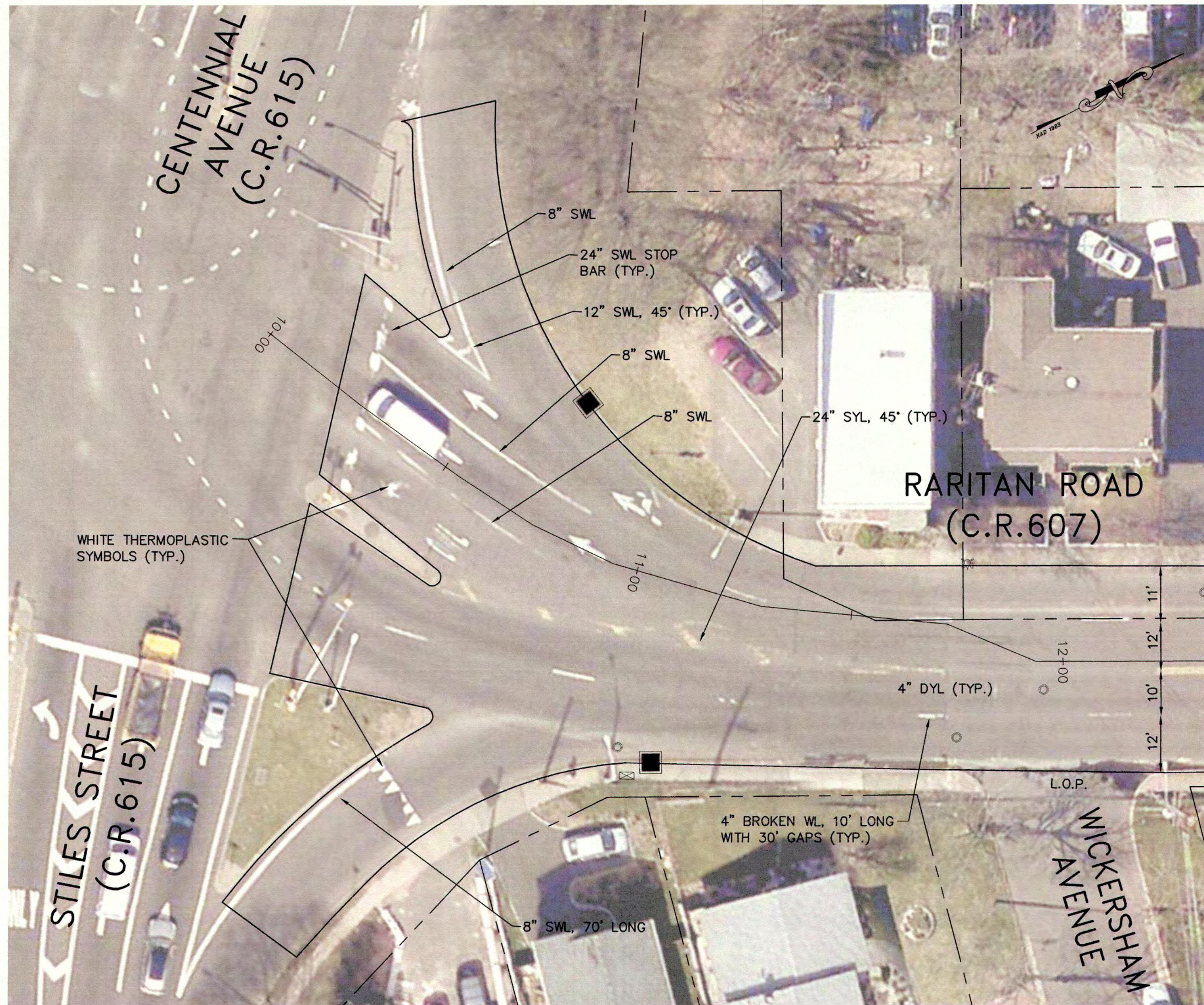
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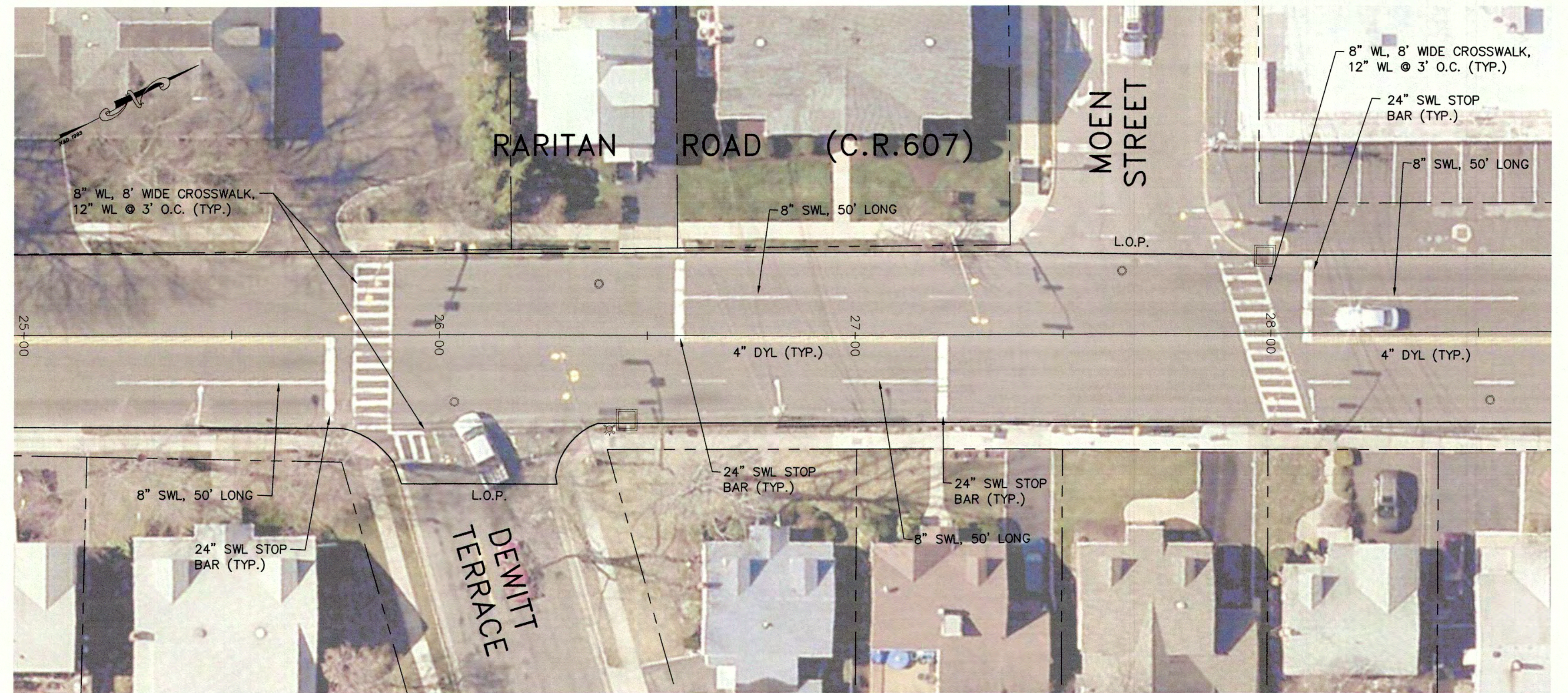
NO.	REVISION	DATE	BY	CHK. BY
<b>RARITAN ROAD</b>				
<b>2015 COUNTY AID</b>				
<b>RESURFACING PROJECT</b>				
LINDEN CITY, UNION COUNTY, NEW JERSEY				
DATE:	DATE: 2-13-15		DATE: 2-13-15	
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882	<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321			
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b>				
300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094 (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM Certificate of Authorization: 24 GA 28003800				
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.
DWG. NO.	2000X015	SHEET. NO.		12 OF 50
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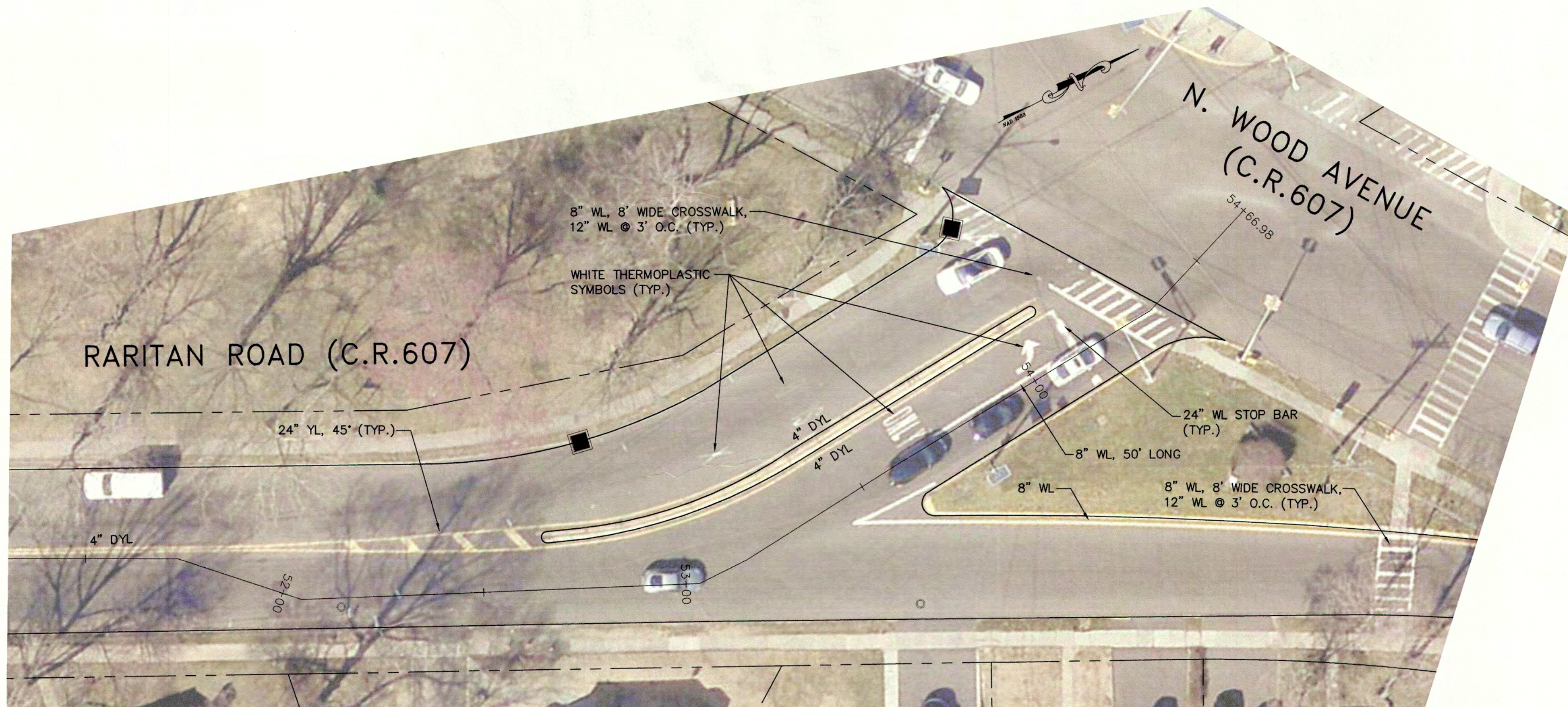
**STRIPING PLAN - STILES STREET & RARITAN ROAD**

SCALE: 1" = 20'



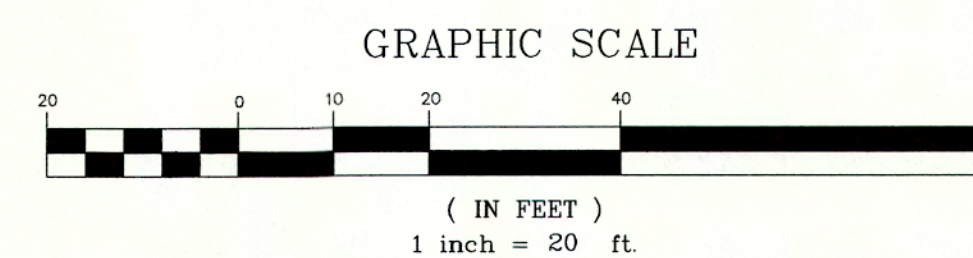
**STRIPING PLAN - DEWITT TERRACE & RARITAN ROAD AND MOEN STREET & RARITAN ROAD**

SCALE: 1" = 20'



**STRIPING PLAN - NORTH WOOD AVENUE & RARITAN ROAD**

SCALE: 1" = 20'



CP-13  
CP-31

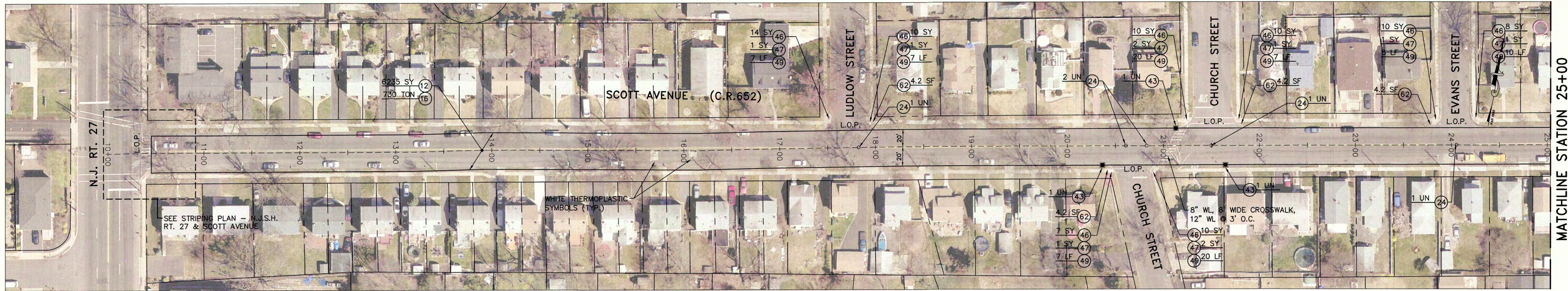
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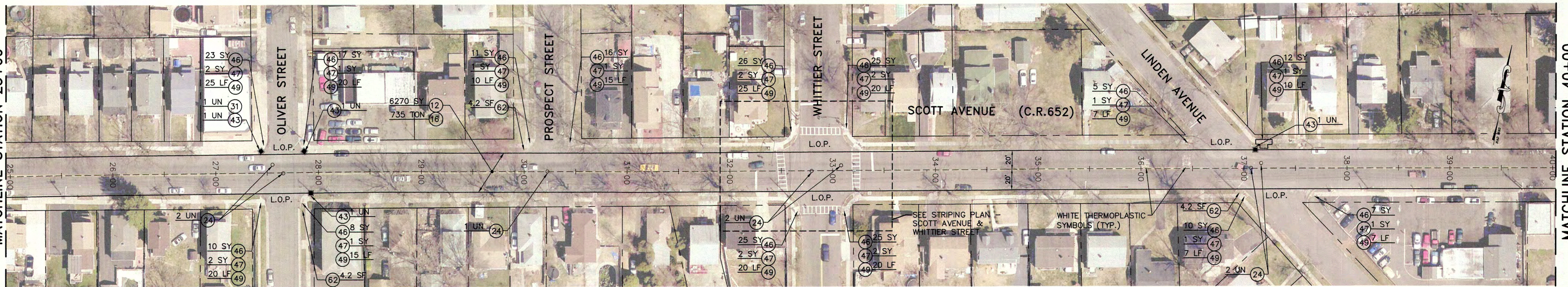
NO.	REVISION	DATE	BY	CHK. BY		
<b>RARITAN ROAD</b>						
<b>2015 COUNTY AID RESURFACING PROJECT</b>						
LINDEN CITY, UNION COUNTY, NEW JERSEY						
DATE:	 2-13-15					
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882	<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321					
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b>						
300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094 (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM Certificate of Authorization: 24 GA 28003800						
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY	DWG. NO.	SHEET. NO.
	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015	13 OF 50
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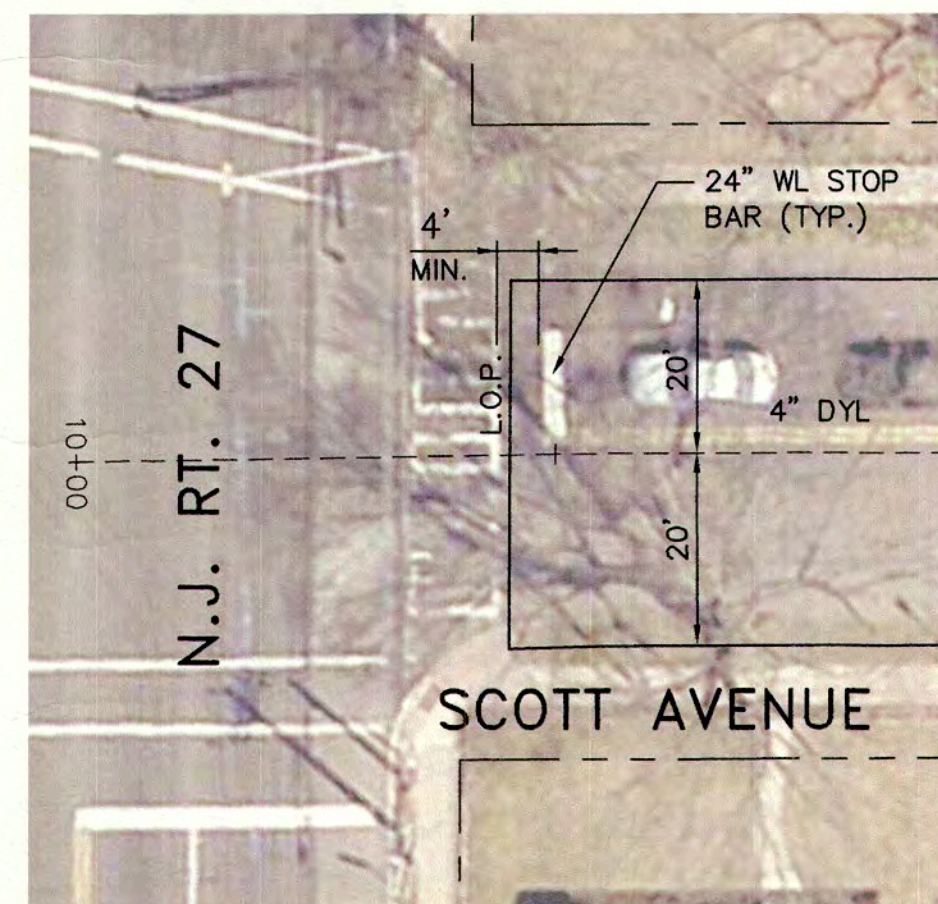
**CONSTRUCTION PLAN**

SCALE: 1" = 50'



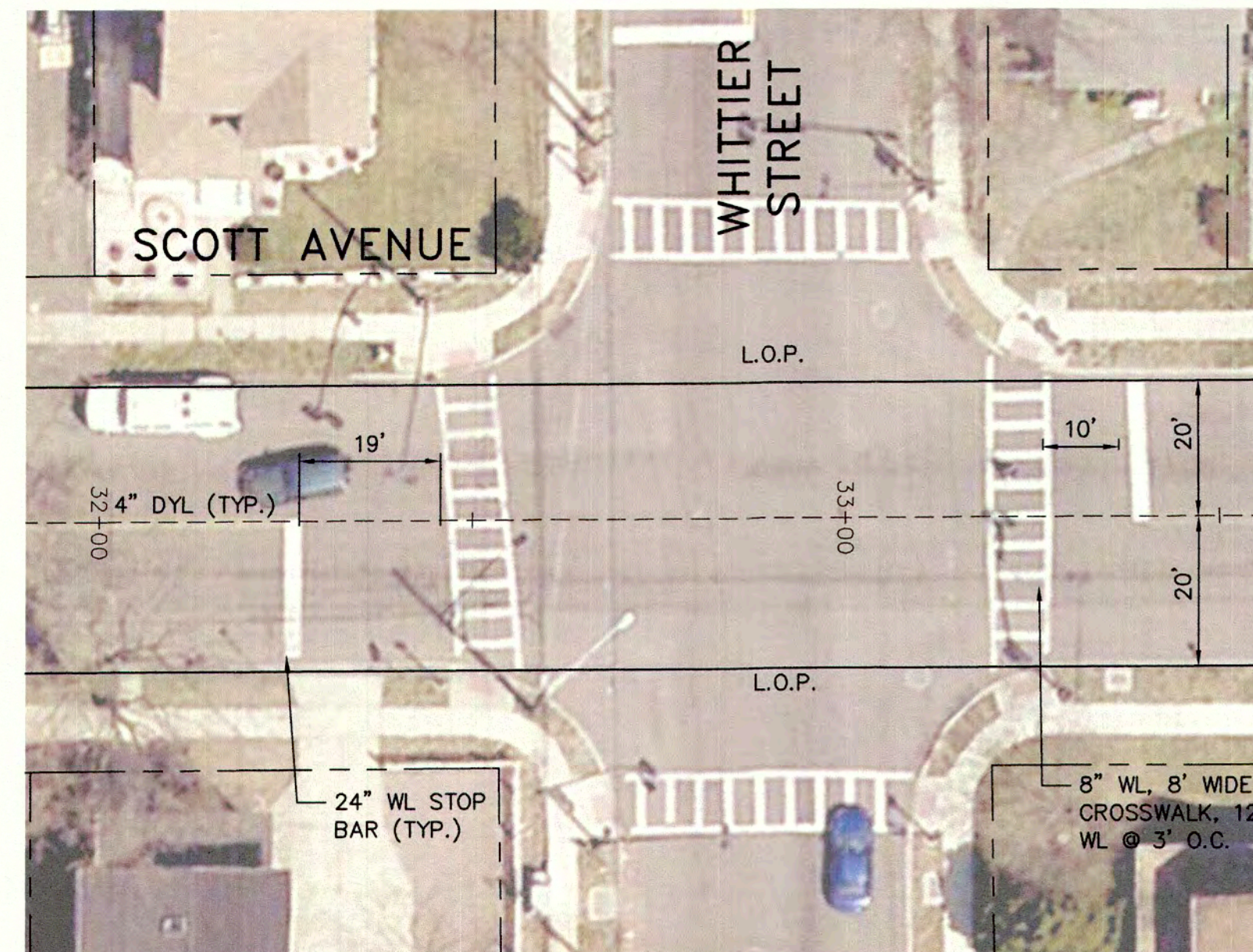
**CONSTRUCTION PLAN**

SCALE: 1" = 50'



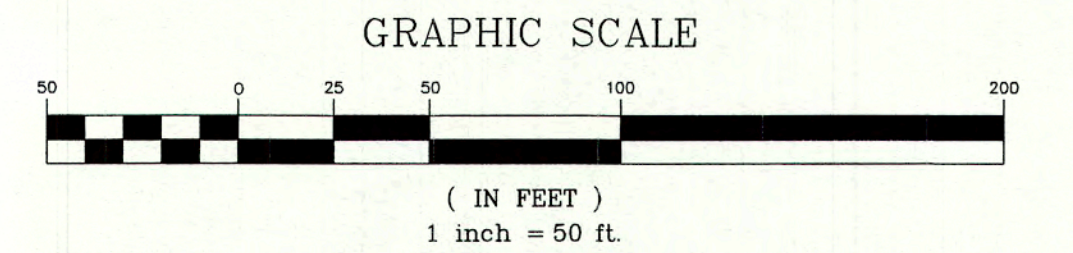
**STRIPING PLAN - N.J. RT. 27 & SCOTT AVENUE**

SCALE: 1" = 20'



**STRIPING PLAN - SCOTT AVENUE & WHITTIER STREET**

SCALE: 1" = 20'



TO BE CONSTRUCTED				
ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	AS BUILT QUANTITY
12	HMA MILLING, 3" OR LESS	SY	12505	
16	HOT MIX ASPHALT 9.5MB4 SURFACE COURSE	TON	1465	
24	RESET EXISTING CASTING	UN	12	
31	RECONSTRUCTED INLET, TYPE B, USING EXISTING CASTING	UN	1	
43	BICYCLE SAFE GRATE	UN	6	
46	CONCRETE SIDEWALK, 4" THICK	SY	299	
47	DETECTABLE WARNING SURFACE	SY	28	
49	10" X 20" CONCRETE VERTICAL CURB	LF	307	
52	TRAFFIC STRIPES, THERMOPLASTIC, 4"	LF	4840	
53	TRAFFIC STRIPES, THERMOPLASTIC, 8"	LF	250	
54	TRAFFIC STRIPES, THERMOPLASTIC, 12"	LF	336	
55	TRAFFIC STRIPES, THERMOPLASTIC, 24"	LF	60	
58	RPM, MONO-DIRECTIONAL, AMBER LENS	UN	36	
59	RPM, BI-DIRECTIONAL, AMBER LENS	UN	60	
62	ACCESSORY PANEL, TYPE DF	SF	29.4	

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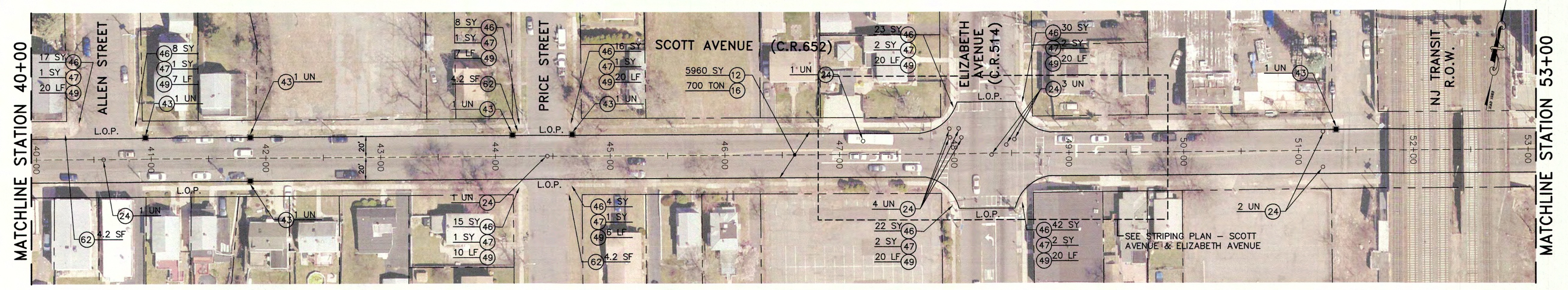
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NO.	REVISION	DATE	BY	CHK.	BY
<b>SCOTT AVENUE</b>					
<b>2015 COUNTY AID</b>					
<b>RESURFACING PROJECT</b>					
RAHWAY CITY, UNION COUNTY, NEW JERSEY					
DATE:					DATE: <i>2-13-15</i>
<b>RICHARD G. ARANGO</b>			<b>FRANK J. SENEY JR.</b>		
NJ PROFESSIONAL ENGINEER LIC. No. 38882			NJ PROFESSIONAL ENGINEER LIC. No. 35321		
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b>					
300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094					
(201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM					
Certificate of Authorization: 24 GA 28003800					
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY	DWG. NO.
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015
DWG FILE PATH/NAME					SHEET NO.
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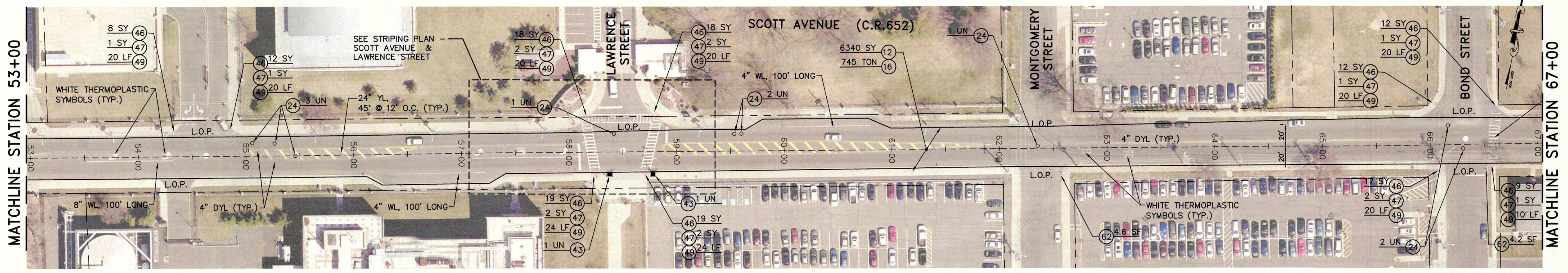
CP-14  
CP-31





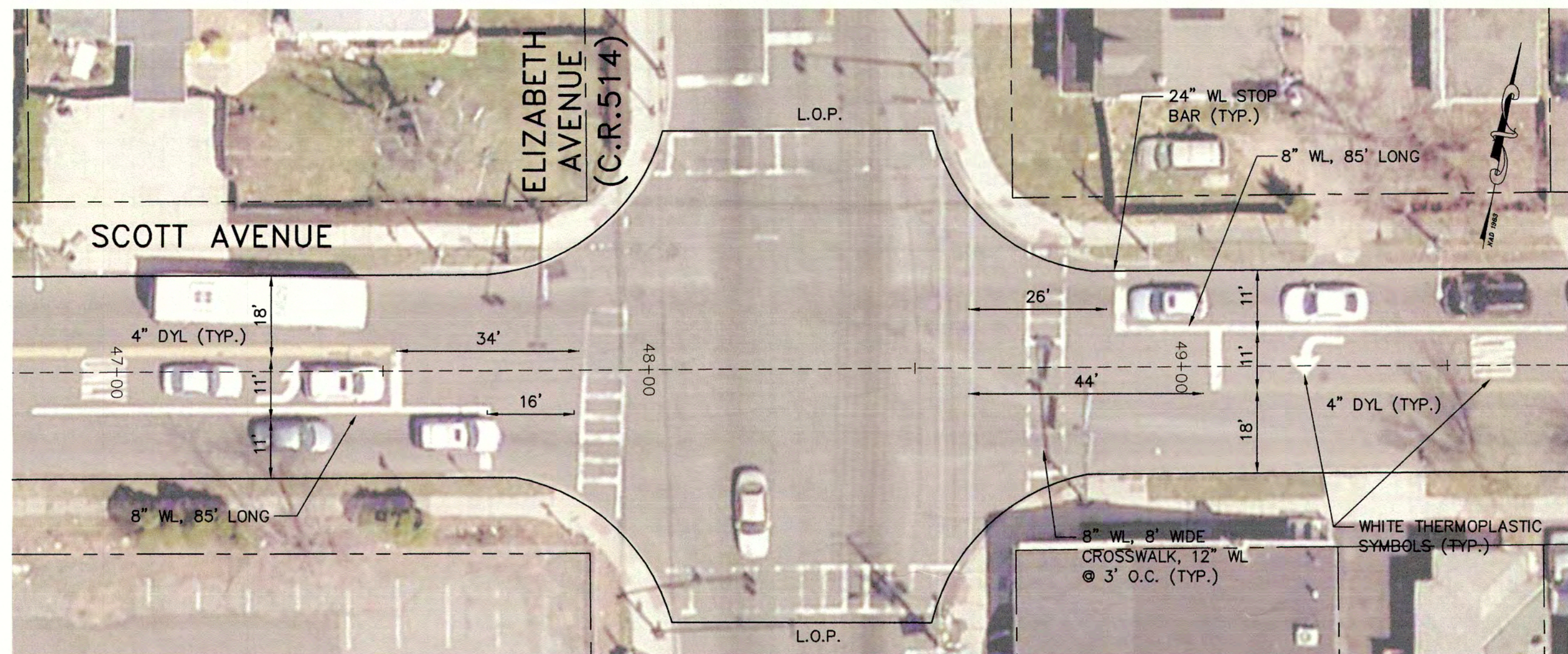
**CONSTRUCTION PLAN**

SCALE: 1" = 50'



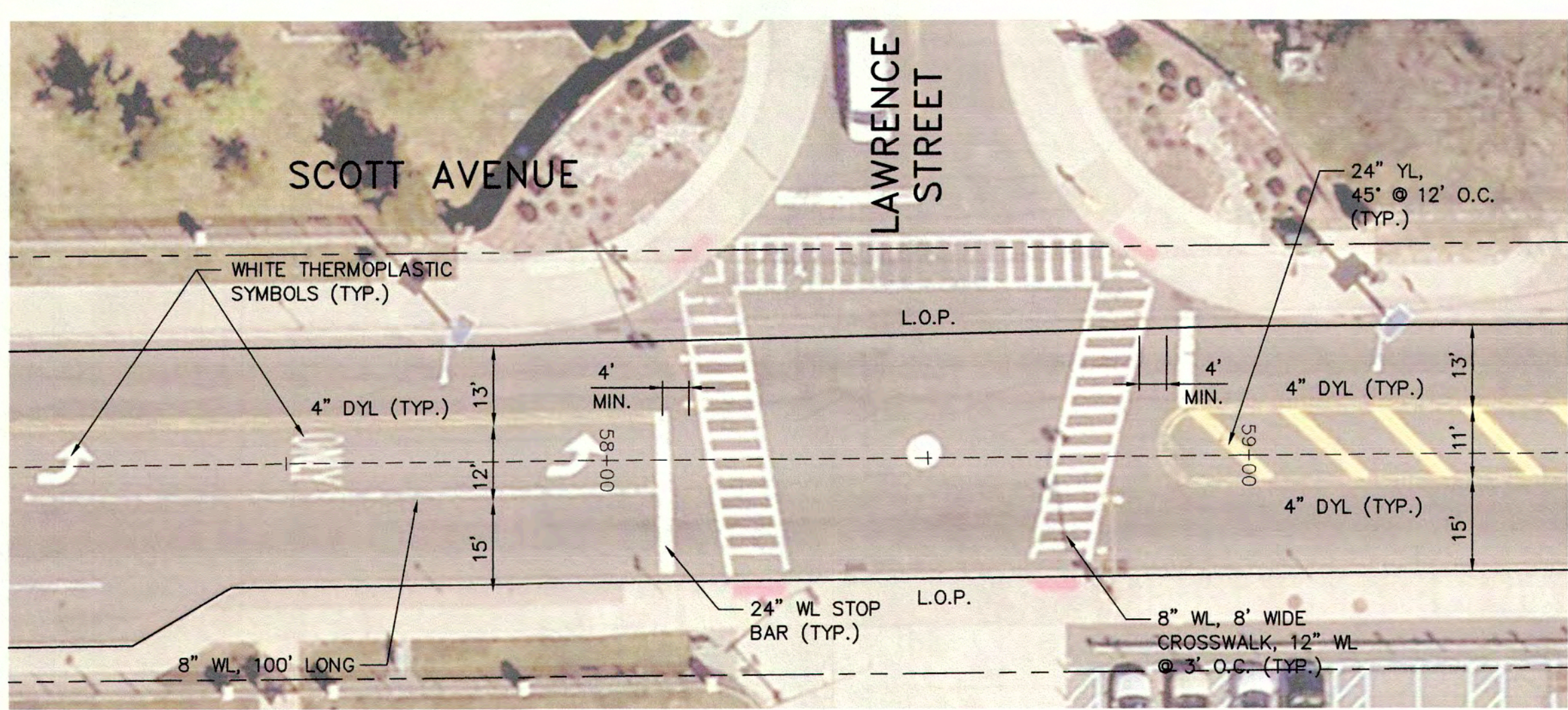
**CONSTRUCTION PLAN**

SCALE: 1" = 50'



**STRIPING PLAN - SCOTT AVENUE & ELIZABETH AVENUE**

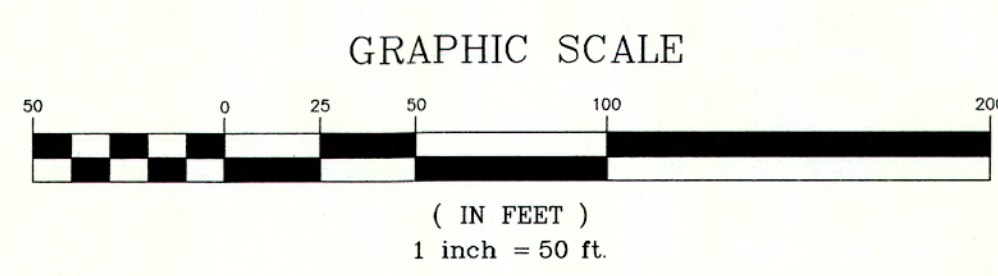
SCALE: 1" = 20'



**STRIPING PLAN - SCOTT AVENUE & LAWRENCE STREET**

SCALE: 1" = 20'

TO BE CONSTRUCTED				
ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	AS BUILT QUANTITY
12	HMA MILLING, 3" OR LESS	SY	12300	
16	HOT MIX ASPHALT 9.5M64 SURFACE COURSE	TON	1445	
24	RESET EXISTING CASTING	UN	20	
43	BICYCLE SAFE GRATE	UN	8	
46	CONCRETE SIDEWALK, 4" THICK	SY	329	
47	DETECTABLE WARNING SURFACE	SY	29	
49	10" X 20" CONCRETE VERTICAL CURB	LF	348	
52	TRAFFIC STRIPES, THERMOPLASTIC, 4"	LF	5300	
53	TRAFFIC STRIPES, THERMOPLASTIC, 8"	LF	930	
54	TRAFFIC STRIPES, THERMOPLASTIC, 12"	LF	880	
55	TRAFFIC STRIPES, THERMOPLASTIC, 24"	LF	494	
56	TRAFFIC MARKINGS, THERMOPLASTIC	SF	160	
57	RPM, MONO-DIRECTIONAL, WHITE LENS	UN	7	
58	RPM, MONO-DIRECTIONAL, AMBER LENS	UN	16	
59	RPM, BI-DIRECTIONAL, AMBER LENS	UN	21	
62	ACCESSORY PANEL, TYPE DF	SF	21	



CP-15  
CP-31

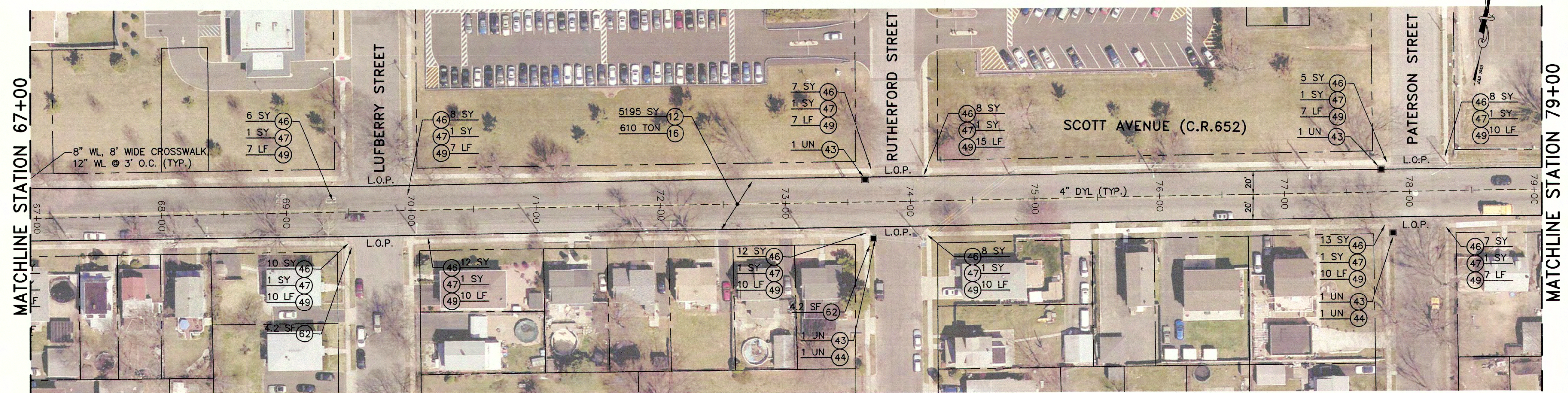
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PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

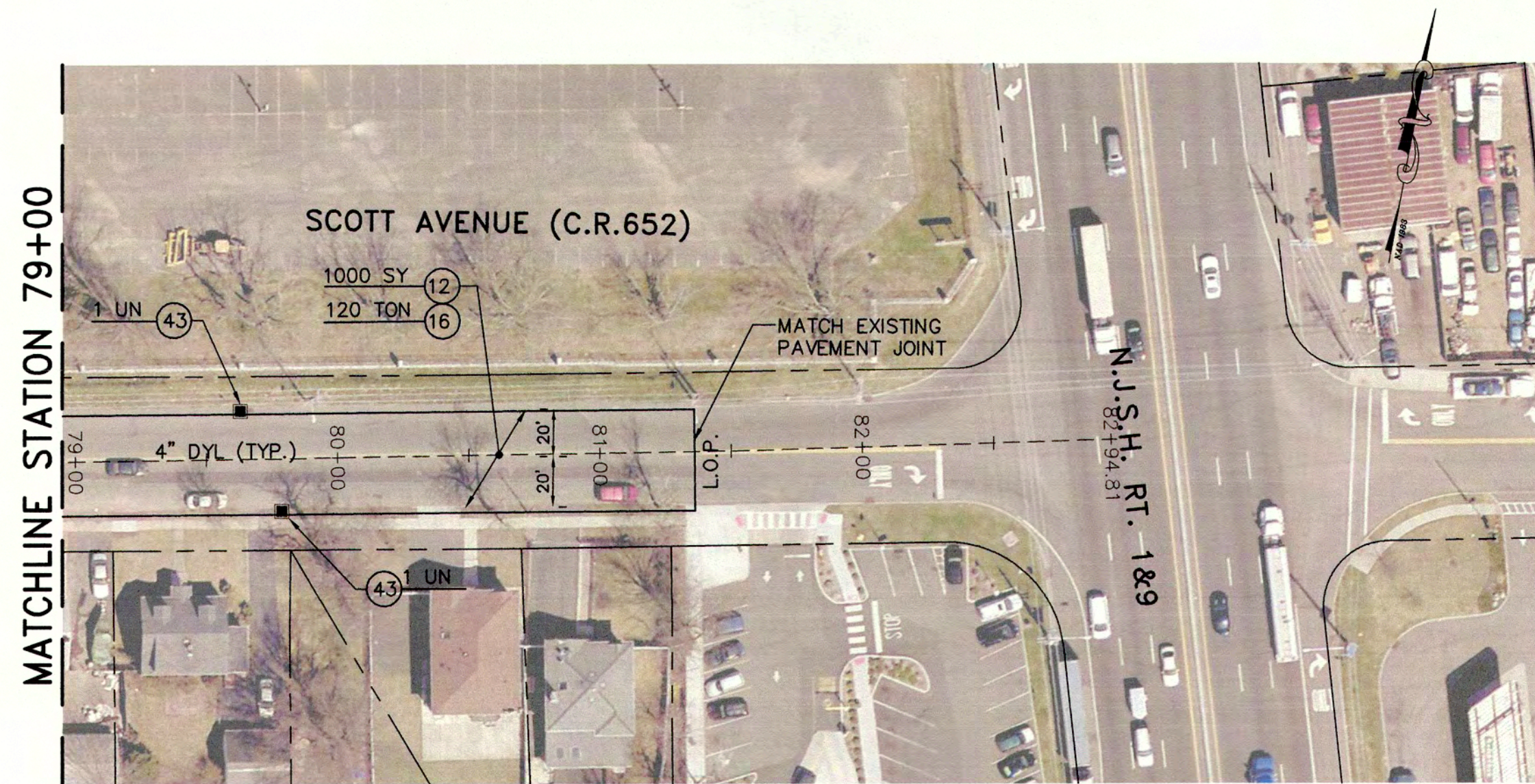
NO.	REVISION	DATE	BY	CHK.	BY
<b>SCOTT AVENUE</b>					
<b>2015 COUNTY AID RESURFACING PROJECT</b>					
RAHWAY CITY, UNION COUNTY, NEW JERSEY					
DATE:		DATE: 2-13-15			
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882		<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321			
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b>					
300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094					
(201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM					
Certificate of Authorization: 24 GA 28003800					
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY	DWG. NO.
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015
DWS FILE PATH/NAME					SHEET. NO.
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**CONSTRUCTION PLAN**

SCALE: 1" = 50'



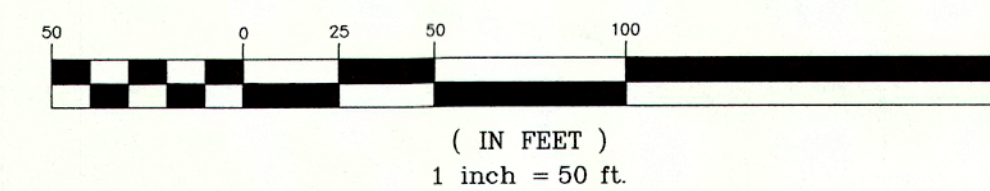
**CONSTRUCTION PLAN**

SCALE: 1" = 50'

**TO BE CONSTRUCTED**

ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	AS BUILT QUANTITY
12	HMA MILLING, 3" OR LESS	SY	6195	
16	HOT MIX ASPHALT 9.5M64 SURFACE COURSE	TON	730	
43	BICYCLE SAFE GRATE	UN	6	
44	CURB PIECE	UN	2	
46	CONCRETE SIDEWALK, 4" THICK	SY	104	
47	DETECTABLE WARNING SURFACE	SY	12	
49	10" X 20" CONCRETE VERTICAL CURB	LF	110	
52	TRAFFIC STRIPES, THERMOPLASTIC, 4"	LF	2570	
55	TRAFFIC STRIPES, THERMOPLASTIC, 24"	LF	20	
56	TRAFFIC MARKINGS, THERMOPLASTIC	SF	35	
59	RPM, BI-DIRECTIONAL, AMBER LENS	UN	18	
62	ACCESSORY PANEL, TYPE DF	SF	8.4	

**GRAPHIC SCALE**



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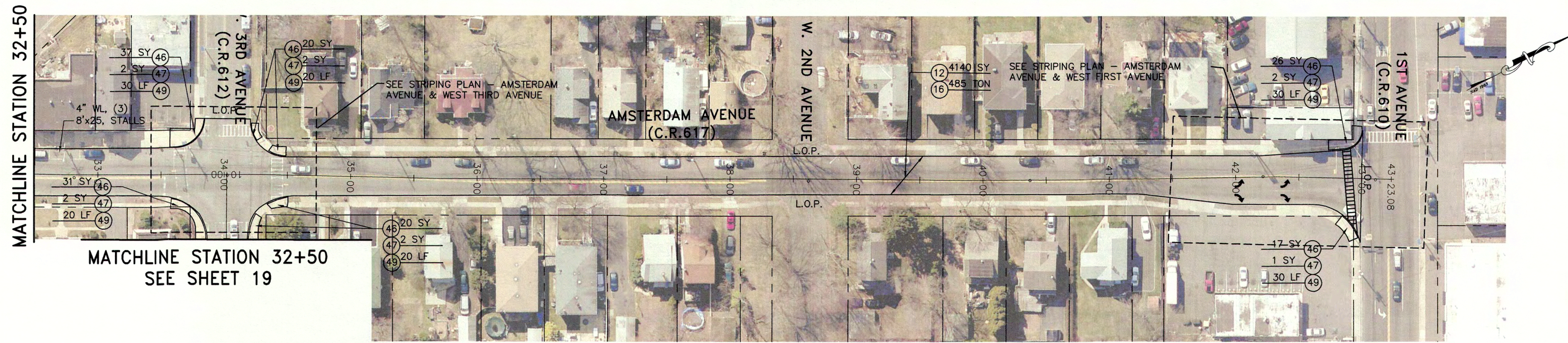
CP-16  
CP-31

NO.	REVISION	DATE	BY	CHK. BY
<b>SCOTT AVENUE</b>				
<b>2015 COUNTY AID</b>				
<b>RESURFACING PROJECT</b>				
RAHWAY CITY, UNION COUNTY, NEW JERSEY				
DATE:		DATE: 2-13-15		
<b>RICHARD G. ARANGO</b>		<b>FRANK J. SENEY JR.</b>		
NJ PROFESSIONAL ENGINEER LIC. No. 38882		NJ PROFESSIONAL ENGINEER LIC. No. 35321		
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b>				
300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094				
(201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM				
Certificate of Authorization: 24 GA 28003800				
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.
DWG. NO.	DWG. NO.		SHEET. NO.	
2000X015	2000X015		16 OF 50	
DWG. FILE PATH/NAME: T:\Transportation\Bridges\Union County\2000X015 - 2015 Road Resurfacing\Drawings\R-2000X015-SCOTT AVE.dwg				

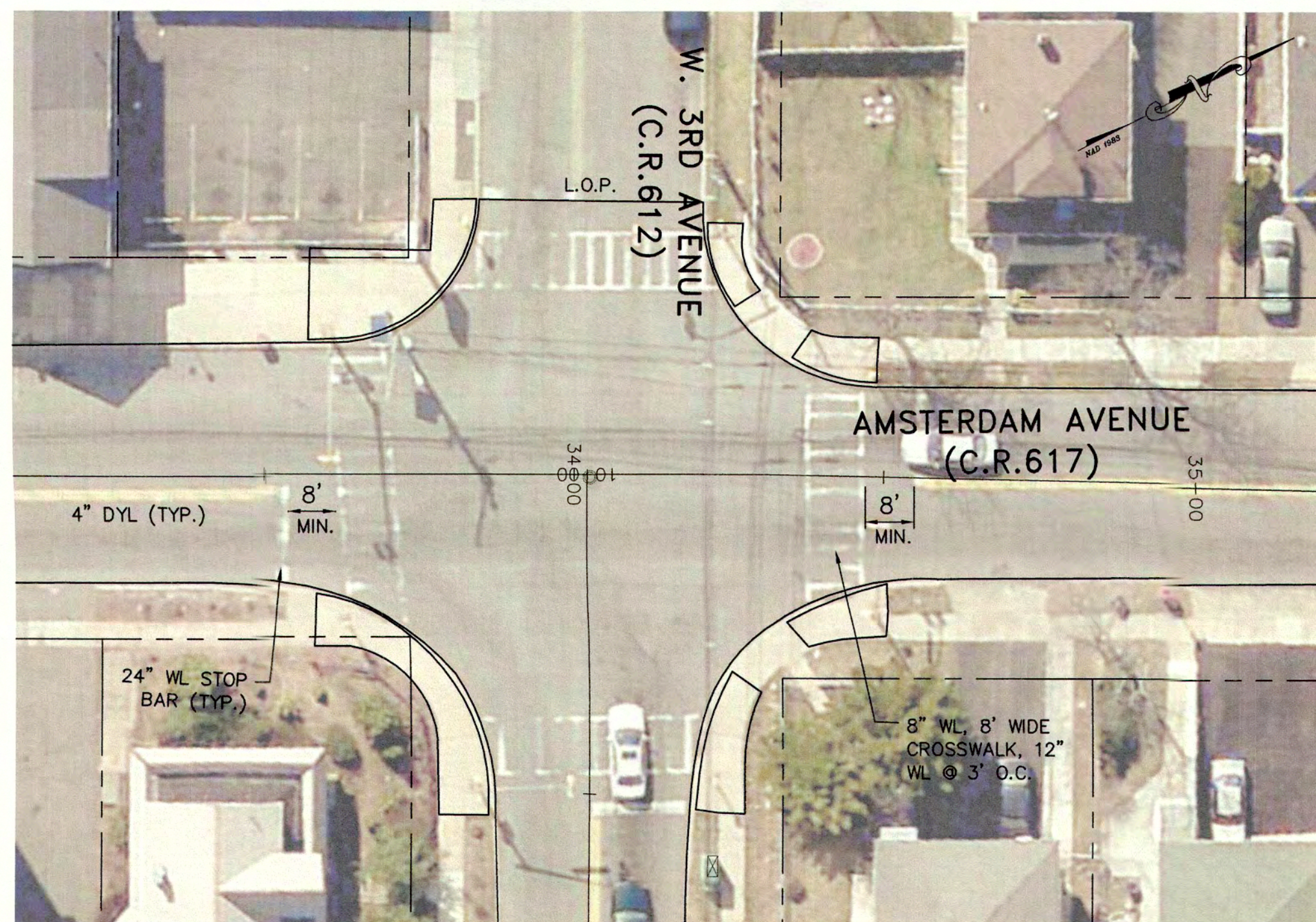




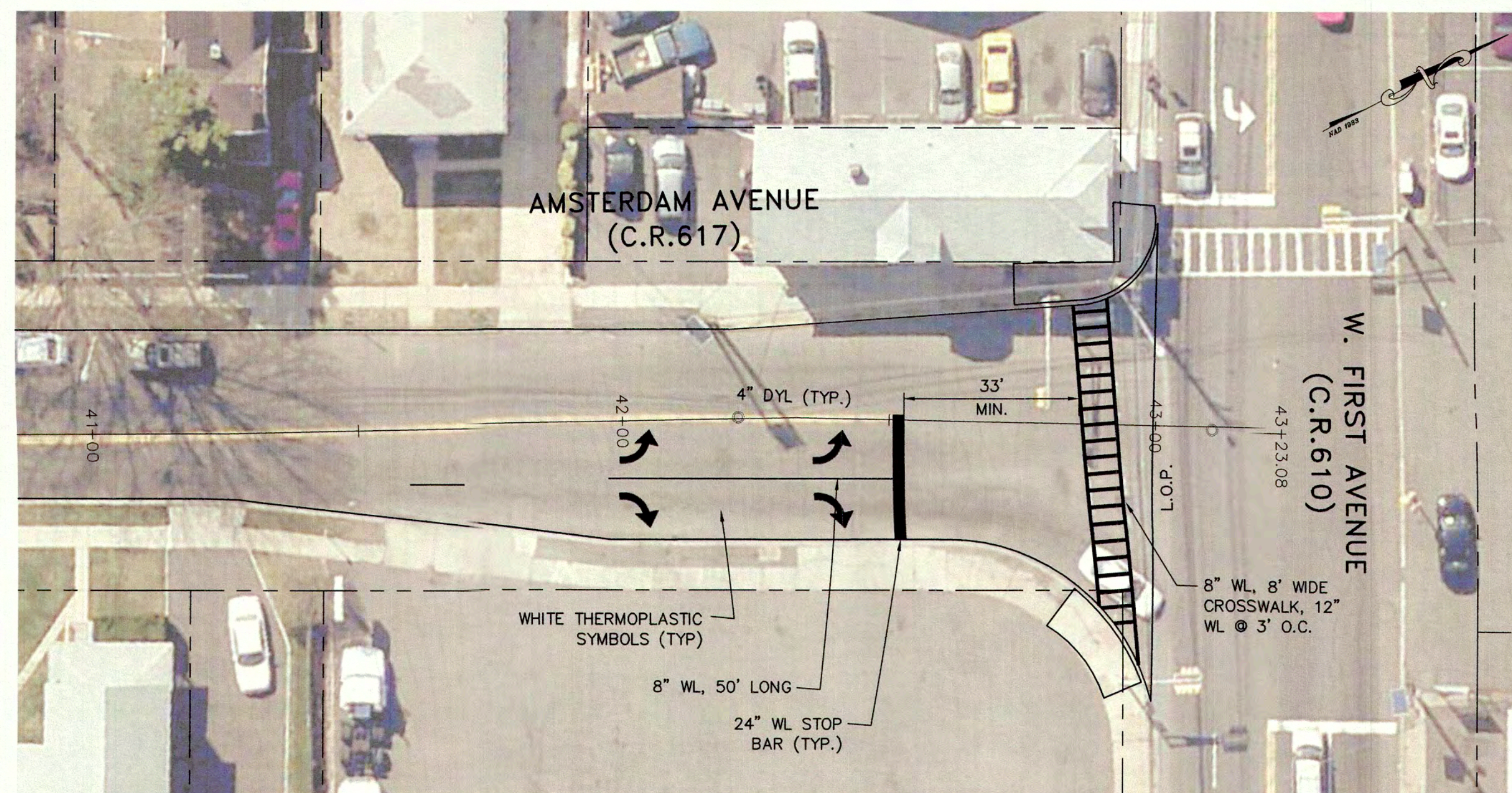




**CONSTRUCTION PLAN**  
SCALE: 1" = 50'

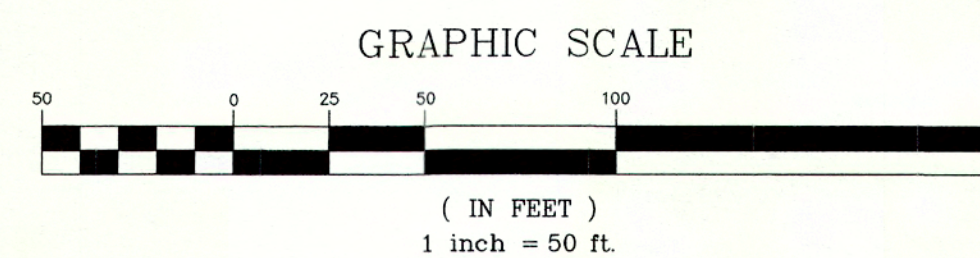


**STRIPING PLAN - AMSTERDAM AVENUE & WEST THIRD AVENUE**  
SCALE: 1" = 20'



**STRIPING PLAN - AMSTERDAM AVENUE & WEST FIRST AVENUE**  
SCALE: 1" = 20'

TO BE CONSTRUCTED				
ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	AS BUILT QUANTITY
172	HMA MILLING 3" OR LESS	SY	4140	
176	HOT MIX ASPHALT 9.5/18.4 SURFACE COURSE	TON	485	
24	RESET EXISTING CASTING	UN	15	
46	CONCRETE SIDEWALK, 4" THICK	SY	151	
47	DETECTABLE WARNING SURFACE	SY	11	
49	10" X 20" CONCRETE VERTICAL CURB	LF	150	
52	TRAFFIC STRIPES, THERMOPLASTIC, 4"	LF	1767	
53	TRAFFIC STRIPES, THERMOPLASTIC, 8"	LF	420	
54	TRAFFIC STRIPES, THERMOPLASTIC, 12"	LF	610	
55	TRAFFIC STRIPES, THERMOPLASTIC, 24"	LF	60	
56	TRAFFIC MARKINGS, THERMOPLASTIC	SF	60	
57	RPM MONO-DIRECTIONAL WHITE LENS	UN	2	
59	RPM BI-DIRECTIONAL AMBER LENS	UN	13	



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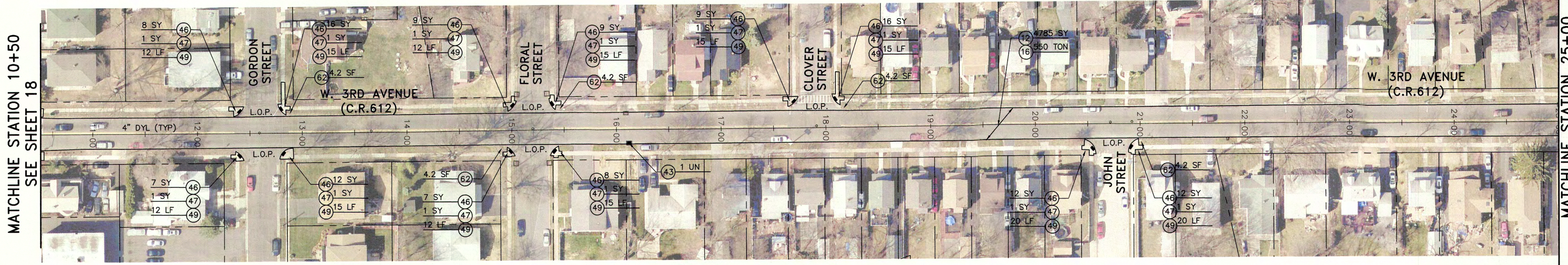
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NO.	REVISION	DATE	BY	CHK.	BY
<b>AMSTERDAM AVENUE</b>					
<b>2015 COUNTY AID</b>					
<b>RESURFACING PROJECT</b>					
ROSELLE BOROUGH, UNION COUNTY, NEW JERSEY					
DATE: <u>2-13-15</u>			DATE: <u>2-13-15</u>		
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882			<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321		
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b>					
300 PENNHORN AVENUE, 3RD FLOOR, SECAUJUS, NJ 07094					
(201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM					
Certificate of Authorization: 24 GA 28003800					
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY	DWG. NO.
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015
DWG. FILE PATH/NAME I:\Transportation\Bridge\Union County\2000X015 - 2015 Road Resurfacing\Drawings\2000X015-AMSTERDAM.dwg					SHEET. NO. 18 OF 50

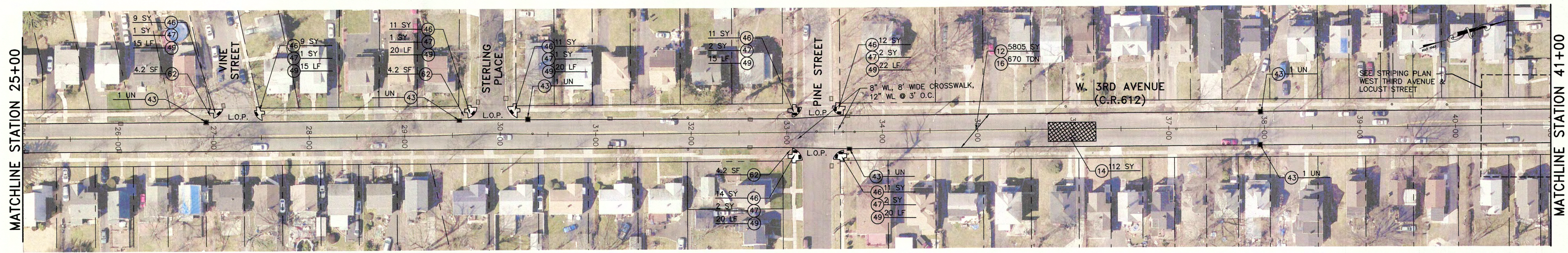
CP-18  
CP-31





**CONSTRUCTION PLAN**

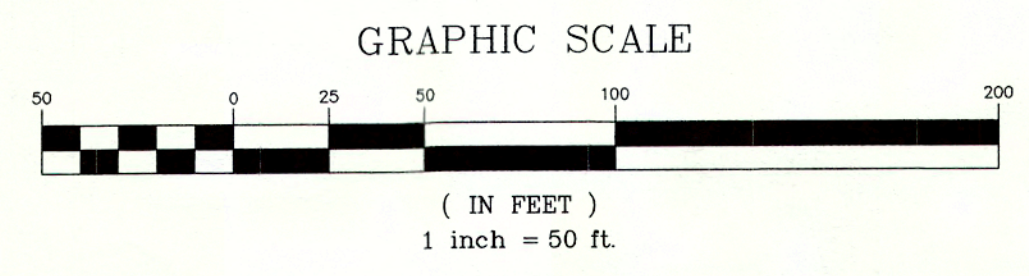
SCALE: 1" = 50'



**CONSTRUCTION PLAN**

SCALE: 1" = 50'

TO BE CONSTRUCTED				
ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	AS BUILT QUANTITY
12	HMA MILLING, 3" OR LESS	SY	10590	
14	HOT MIX ASPHALT PAVEMENT REPAIR	SY	112	
16	HOT MIX ASPHALT 9.5M64 SURFACE COURSE	TON	1220	
24	RESET EXISTING CASTING	UN	17	
43	BICYCLE SAFE GRATE	UN	7	
46	CONCRETE SIDEWALK, 4" THICK	SY	213	
47	DETECTABLE WARNING SURFACE	SY	24	
49	10' X 20' CONCRETE VERTICAL CURB	LF	325	
52	TRAFFIC STRIPES, THERMOPLASTIC, 4"	LF	5740	
54	TRAFFIC STRIPES, THERMOPLASTIC, 12"	LF	120	
55	TRAFFIC STRIPES, THERMOPLASTIC, 24"	LF	320	
56	TRAFFIC MARKINGS, THERMOPLASTIC	SF	60	
59	RPM, BI-DIRECTIONAL, AMBER LENS	UN	38	
62	ACCESSORY PANEL, TYPE DF	SF	29.4	

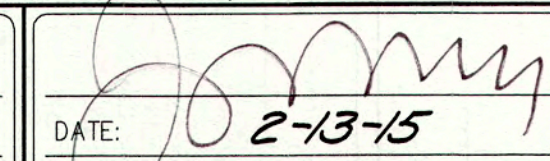


CP-19  
CP-31

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NO.	REVISION	DATE	BY	CHK. BY
<b>W. 3RD AVENUE</b> <b>2015 COUNTY AID</b> <b>RESURFACING PROJECT</b> ROSELLE BOROUGH, UNION COUNTY, NEW JERSEY				
DATE:	 2-13-15		DATE: 2-13-15	
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882		<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321		
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b> <small>300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094          (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM          Certificate of Authorization: 24 GA 28003800</small>				
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.
DWG. NO.	SHEET. NO.			
2000X015	19 OF 50			
DWG FILE PATH/NAME <small>T:\Transportation\Bridge\Union County\2000X015 - 2015 Road Resurfacing\Drawings\2000X015-AMSTERDAM.dwg</small>				



#	DESCRIPTION	UNITS	SOUTH AVE.	S. BROAD ST.	LAGRANDE AVE. / LAUREL PL.	GALLOPING HILL RD.	RARITAN RD.	SCOTT AVE.	AMSTERDAM AVE.	W. 3RD AVE.	FRONT ST.	HILLSIDE AVE.	MOUNTAIN AVE.	MORRIS AVE.	E. BROAD ST.	PLAN QUANTITY	IF & WHERE DIRECTED	BID QUANTITY
1	PORTABLE VARIABLE MESSAGE SIGN	UN														4	0	4
2	TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION	UN														2	0	2
3	TRAFFIC DIRECTOR, FLAGGER	HR														1500	0	1500
4	TRAFFIC CONTROL MEASURES	LS														1	0	1
5	FLOODLIGHTS FOR NIGHTTIME OPERATIONS	UN														4	0	4
6	TRAFFIC DIRECTOR, UNIFORM POLICE	DOLLAR														DOLLAR	DOLLAR	DOLLAR
7	NO ITEM	-														0	0	0
8	FUEL PRICE ADJUSTMENT	DOLLAR														DOLLAR	DOLLAR	DOLLAR
9	ASPHALT PRICE ADJUSTMENT	DOLLAR														DOLLAR	DOLLAR	DOLLAR
10	EXCAVATION, UNCLASSIFIED	CY														0	200	200
11	DENSE-GRADED AGGREGATE BASE COURSE, VARIABLE THICKNESS	CY														0	200	200
12	HMA MILLING, 3" OR LESS	SY	23175	24074	22190	12321	21405	31000	14090	15205	14799	6250	8190	48418	26476	267593	26407	294000
13	HMA MILLING, MORE THAN 3" TO 6"	SY														0	100	100
14	HOT MIX ASPHALT PAVEMENT REPAIR	SY	457	111	325				258	112	41	6		100	140	1550	50	1600
15	NO ITEM	-														0	0	0
16	HOT MIX ASPHALT 9.5M64 SURFACE COURSE	TON	2711	2823	2597	1441	2505	3640	1635	1755	1736	732	965	5722	3098	31360	3140	34500
17	HOT MIX ASPHALT 9.5M64 LEVELING COURSE	TON														0	500	500
18	NO ITEM	-														0	0	0
19	NO ITEM	-														0	0	0
20	SAWCUT GROOVED DECK SURFACE	SF		3575									1460			5035	465	5500
21	REPAIR OF CONCRETE DECK, TYPE B	SF		300									125			425	75	500
22	REPAIR OF CONCRETE DECK, TYPE C	SF														0	100	100
23	NO ITEM	-														0	0	0
24	RESET EXISTING CASTING	UN	32	73	67	4	34	32	30	27	13	12	9	107	28	468	52	520
25	NO ITEM	-														0	0	0
26	NO ITEM	-														0	0	0
27	NO ITEM	-														0	0	0
28	NO ITEM	-														0	0	0
29	NO ITEM	-														0	0	0
30	NO ITEM	-														0	0	0
31	RECONSTRUCTED INLET, TYPE B, USING EXISTING CASTING	UN					1	1								2	8	10
32	NO ITEM	-														0	0	0
33	NO ITEM	-														0	0	0
34	NO ITEM	-														0	0	0
35	NO ITEM	-														0	0	0
36	NO ITEM	-														0	0	0
37	NO ITEM	-														0	0	0
38	NO ITEM	-														0	0	0
39	NO ITEM	-														0	0	0
40	NO ITEM	-														0	0	0
41	NO ITEM	-														0	0	0
42	NO ITEM	-														0	0	0
43	BICYCLE SAFE GRATE	UN	3	7	12	2	4	20	6	7		8	3	7	7	86	24	110
44	CURB PIECE	UN	14	9	31	2	5	2	10			7	2	2	6	90	20	110
45	NO ITEM	-														0	0	0
46	CONCRETE SIDEWALK, 4" THICK	SY	10	87	54	79	429	732	298	213	29	41	253	1018	60	3303	397	3700
47	DETECTABLE WARNING SURFACE	SY	10	10	13	7	50	69	26	24	4	2	13	69	9	306	34	340
48	NO ITEM	-														0	0	0
49	10" X 20" CONCRETE VERTICAL CURB	LF	10	137	65	160	546	765	355	325	50	40	137	624	94	3308	492	3800
50	BELGIAN BLOCK CURB	LF									30		78	691	41	840	160	1000
51	NO ITEM	-														0	0	0
52	TRAFFIC STRIPES, THERMOPLASTIC, 4"	LF	8820	10940	11859	5085	7570	12710	5119	7380	5734	2580	2990	23155	16735	120677	1323	122000
53	TRAFFIC STRIPES, THERMOPLASTIC, 8"	LF	185	2015	1180	1540	1150	1180	4050	920	351	210	400	3079	605	16865	1635	18500
54	TRAFFIC STRIPES, THERMOPLASTIC, 12"	LF	172	3225	1200	400	802	1216	1106	1144	333		440	3138	1480	14656	1344	16000
55	TRAFFIC STRIPES, THERMOPLASTIC, 24"	LF	23	798	166	225	191	574	104	420	82	216	75	959	70	3903	397	4300
56	TRAFFIC MARKINGS, THERMOPLASTIC	SF		180	285	300	268	195	60	210	135	70		505	392	2600	400	3000
57	RPM, MONO-DIRECTIONAL, WHITE LENS	UN	2	28	9	86	60	7	2	6	4	3	2	28	12	249	51	300
58	RPM, MONO-DIRECTIONAL, AMBER LENS	UN		16	9	19	16	52			4		2	54		172	28	200
59	RPM, BI-DIRECTIONAL, AMBER LENS	UN	60	55	116	21	61	99	44	49	40	17	22	188	93	865	85	950
60	NO ITEM	-														0	0	0
61	STREET NAME SIGN, TYPE DF, BREAKAWAY SUPPORT	SF	21		46.2	4.2			4.2		20		12.6	58.8	16.8	183.8	16.2	200
62	ACCESSORY PANEL, TYPE DF	SF		8.4					37.8	29.4	20	4.2		16.8	33.6	276.2	23.8	300
63	RELOCATE SIGN	UN														0	20	20
64	LOOP DETECTOR	LF														0	3000	3000
65	IMAGE DETECTOR	UN														0	10	10
66	NO ITEM	-														0	0	0
67	TOPSOILING, 4" THICK	SY			30	40					10	30	165	735	30	1040	960	2000
68	FERTILIZING AND SEEDING, TYPE A-3	SY			30	40					10	30	165	735	30	1040	960	2000

CP-2  
CP-31

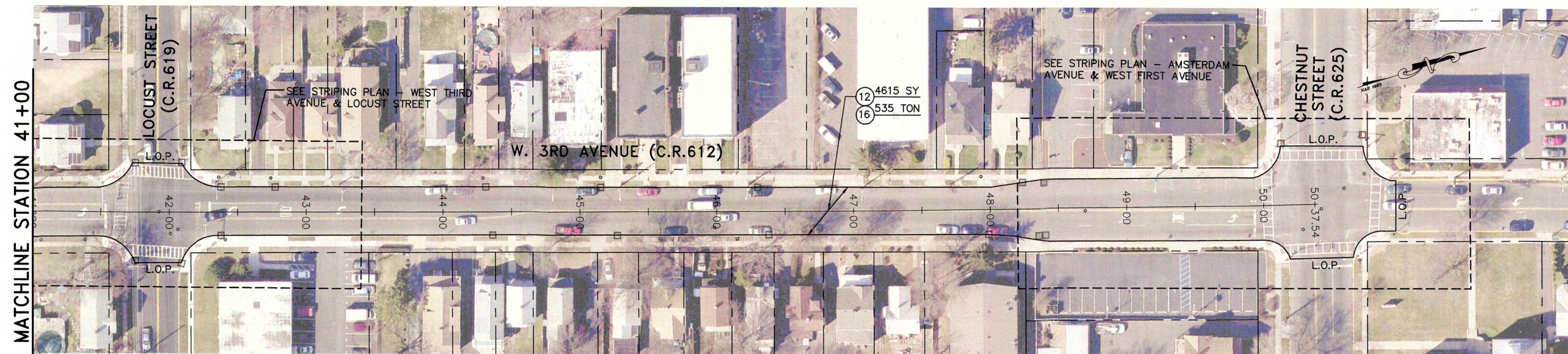
NO.	REVISION	DATE	BY	CHK.	BY
<b>ESTIMATE &amp; DISTRIBUTION OF QUANTITIES</b>					
<b>2015 COUNTY AID RESURFACING PROJECT</b>					
VARIOUS CITY, BOROUGH & TOWNSHIPS UNION COUNTY, NEW JERSEY					
DATE: _____			DATE: <i>2-13-15</i>		
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882			<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321		
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b>					
300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094 (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM Certificate of Authorization: 24 GA 28003800					
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY	DWG. NO.
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015
DWC: FILE PATH/NAME			SHEET. NO.		
T:\Transportation\Bridge\Union County\2000X015 - 2015 Road Resurfacing\Drawings\0-2000X015-01.dwg			2 OF 50		

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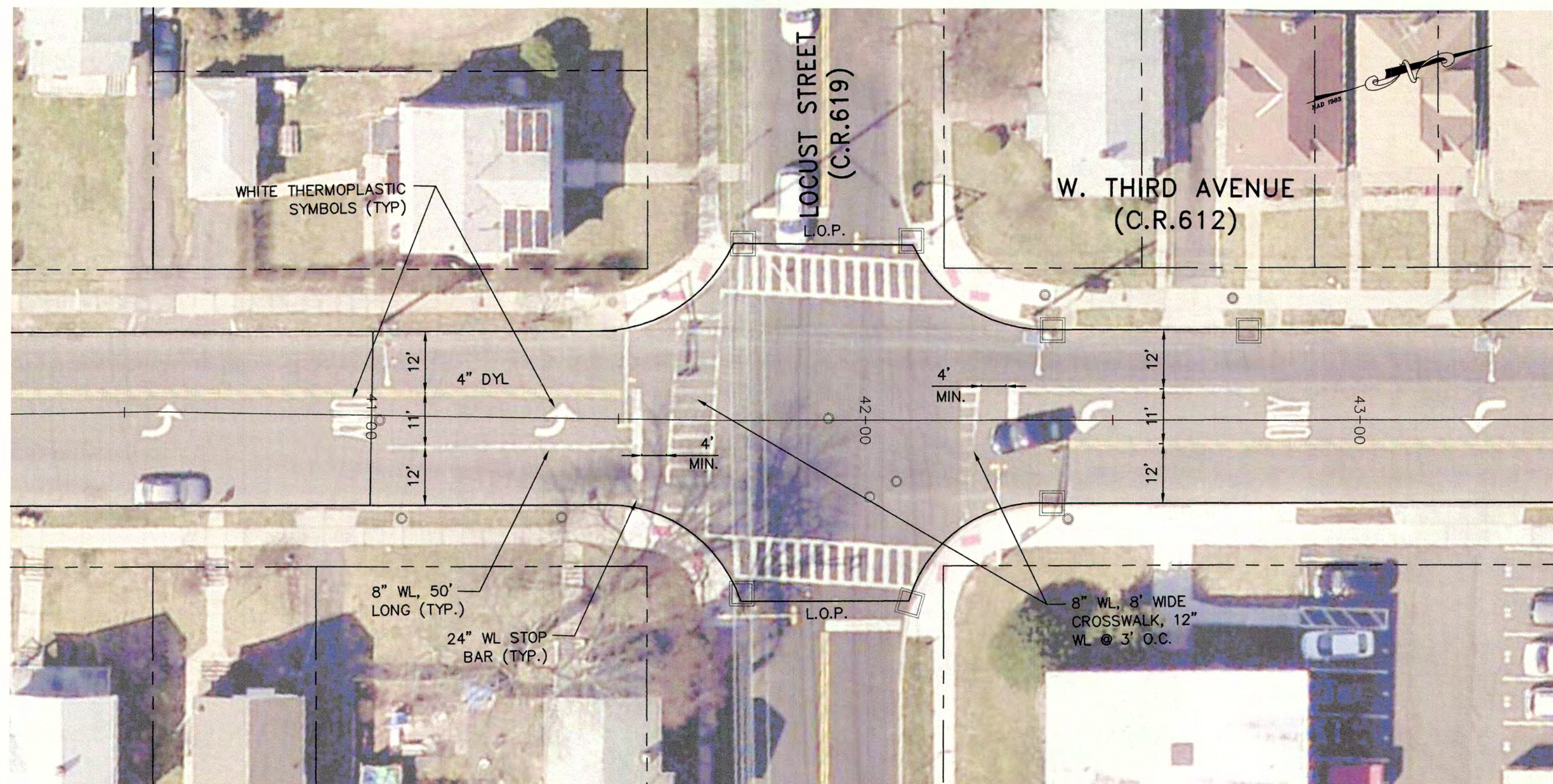
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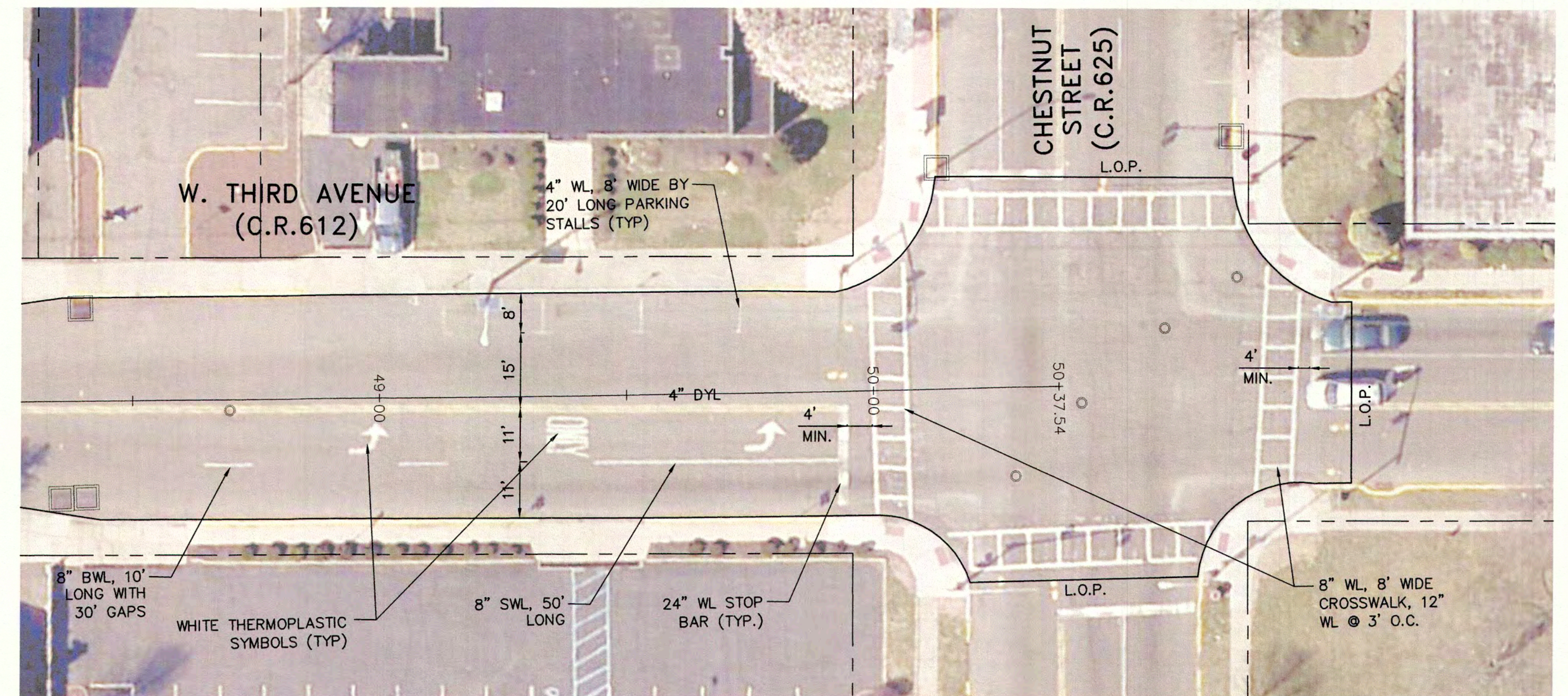


**PLAN**  
SCALE: 1" = 50'



**STRIPING PLAN - WEST THIRD AVENUE (C.R. 612) & LOCUST STREET (C.R. 619)**

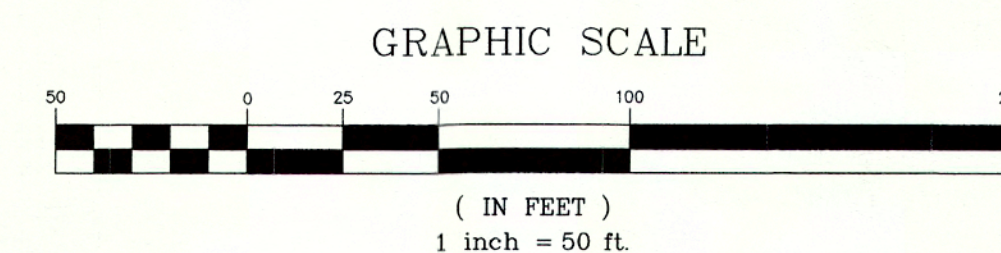
SCALE: 1" = 20'



**STRIPING PLAN - WEST THIRD AVENUE (C.R. 612) & CHESTNUT STREET (C.R. 625)**

SCALE: 1" = 20'

TO BE CONSTRUCTED			
ITEM NO.	DESCRIPTION	UNIT	AS BUILT QUANTITY
12	HMA MILLING, 3" OR LESS	SY	4615
16	HOT MIX ASPHALT 9.5% SURFACE COURSE	TON	535
24	RESET EXISTING CASTING	UN	10
52	TRAFFIC STRIPES, THERMOPLASTIC 4"	LF	1640
53	TRAFFIC STRIPES, THERMOPLASTIC 8"	LF	920
54	TRAFFIC STRIPES, THERMOPLASTIC 12"	LF	1024
55	TRAFFIC STRIPES, THERMOPLASTIC 24"	LF	100
56	TRAFFIC MARKINGS, THERMOPLASTIC	SF	150
57	RPM, MONO-DIRECTIONAL WHITE LENS	UN	6
59	RPM, BI-DIRECTIONAL AMBER LENS	UN	11



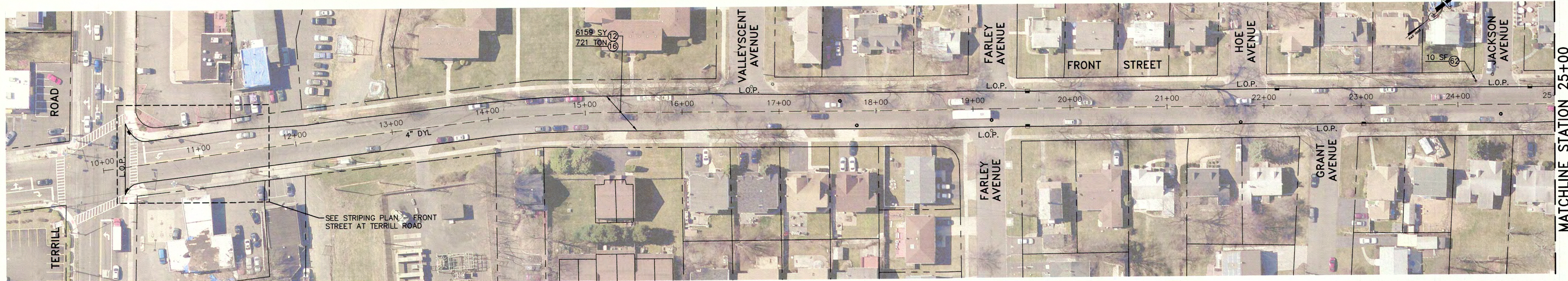
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PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

NO.	REVISION	DATE	BY	CHK.	BY
<b>W. 3RD AVENUE</b> <b>2015 COUNTY AID</b> <b>RESURFACING PROJECT</b> ROSELLE BOROUGH, UNION COUNTY, NEW JERSEY					
DATE:		DATE: 2-13-15			
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882		<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321			
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b> 300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094 (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM Certificate of Authorization: 24 GA 28003800					
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY	DWG. NO.
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015
DWG FILE PATH/NAME: T:\Transportation\Bridges\Union County\2000X015 - 2015 Road Resurfacing\Drawings\R-2000X015-AMSTERDAM.dwg					SHEET NO. 20 OF 50

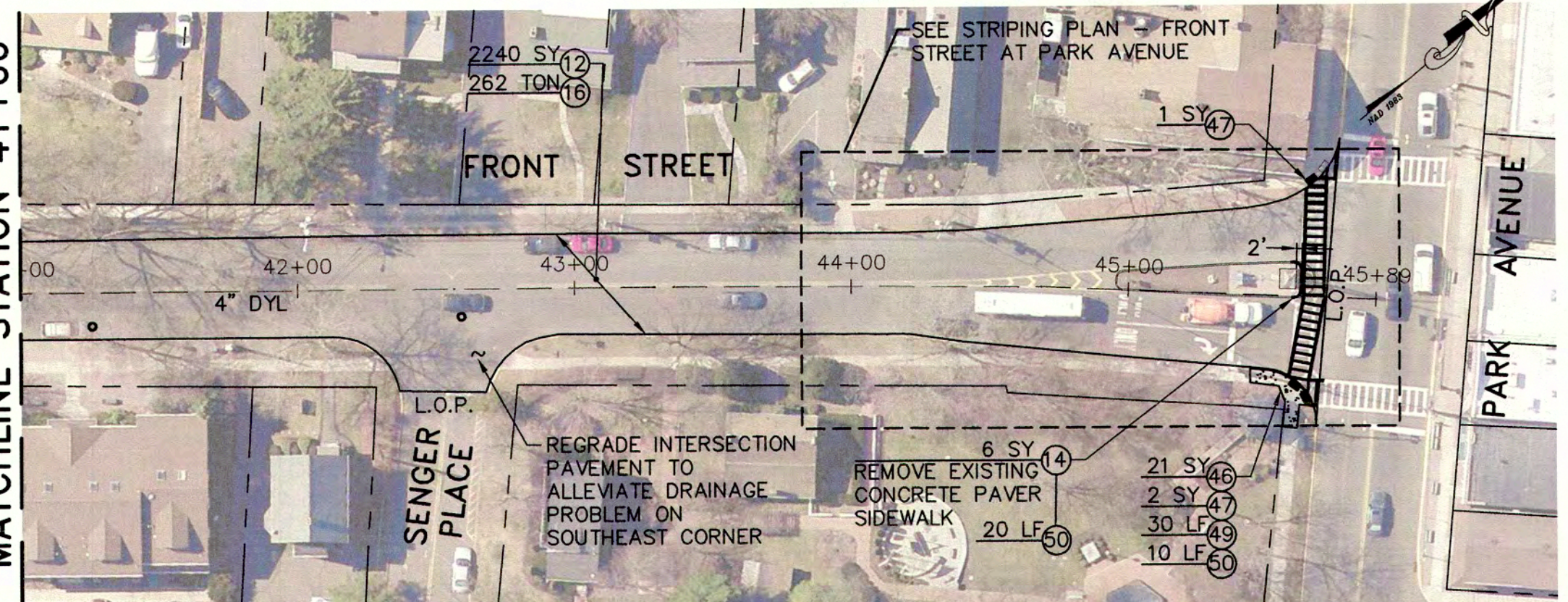




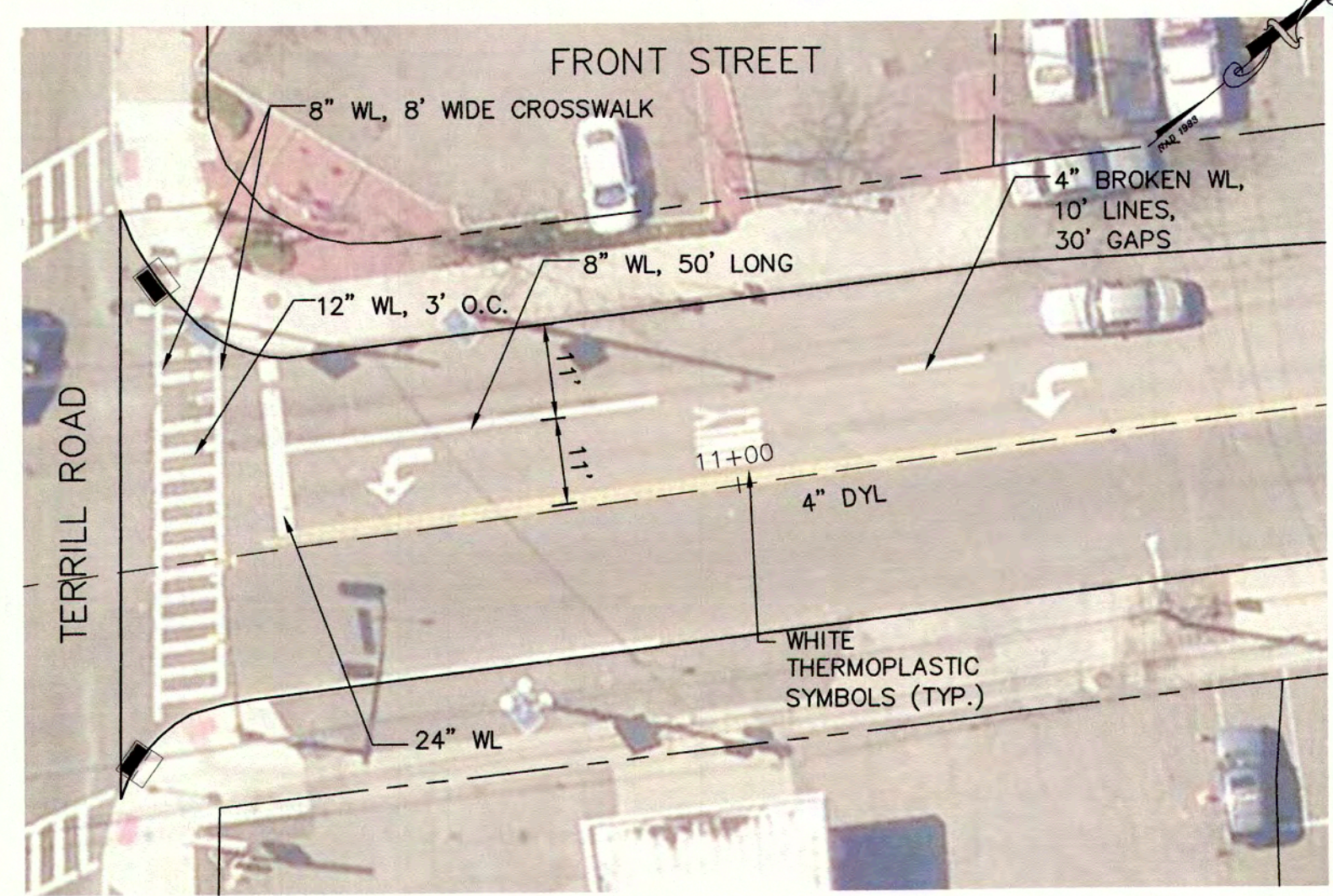
**CONSTRUCTION PLAN**  
SCALE: 1" = 50'



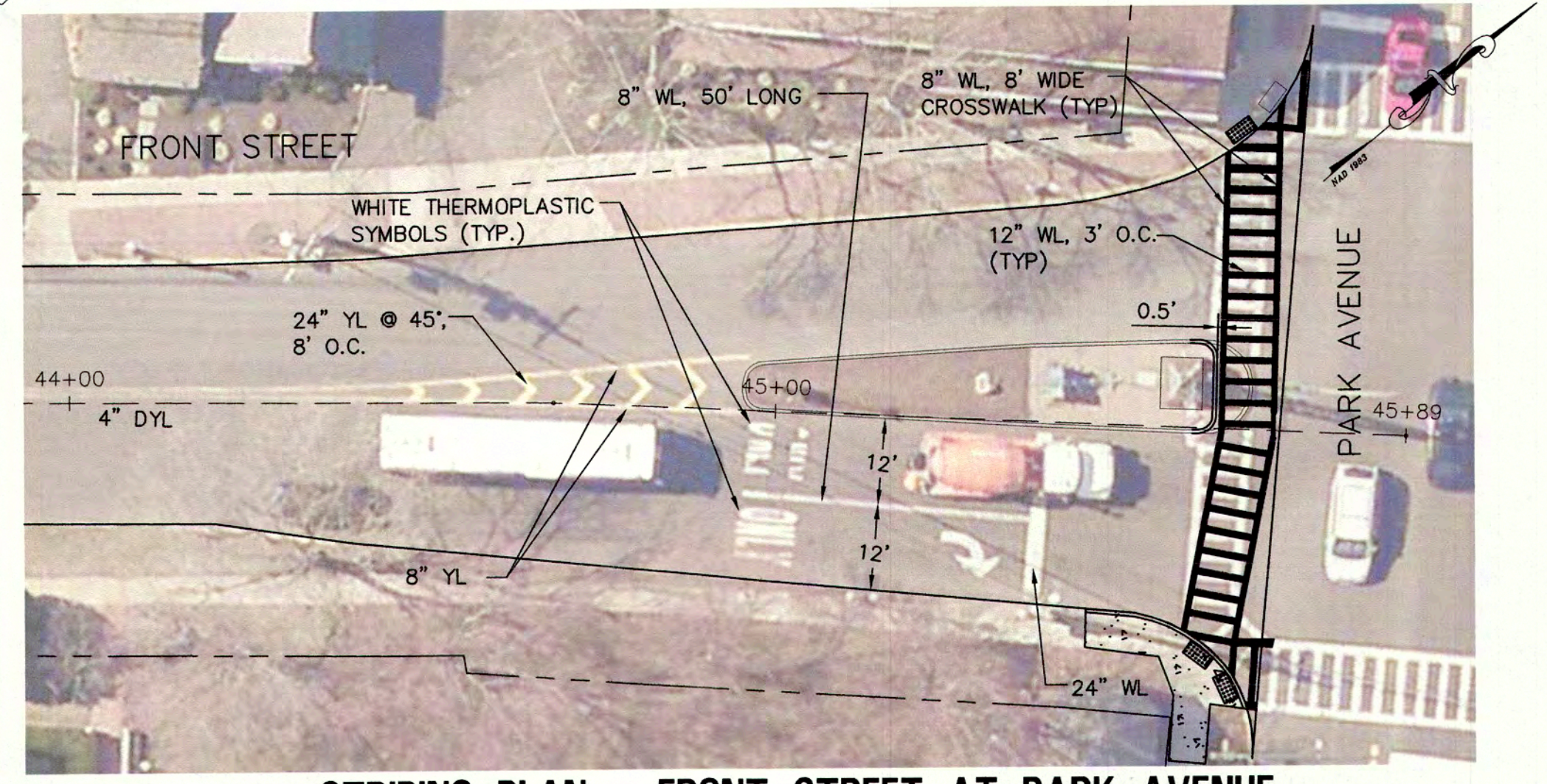
**CONSTRUCTION PLAN**  
SCALE: 1" = 50'



**CONSTRUCTION PLAN**  
SCALE: 1" = 50'

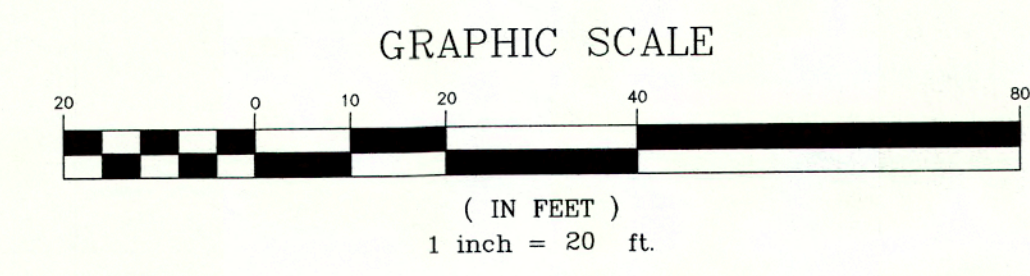
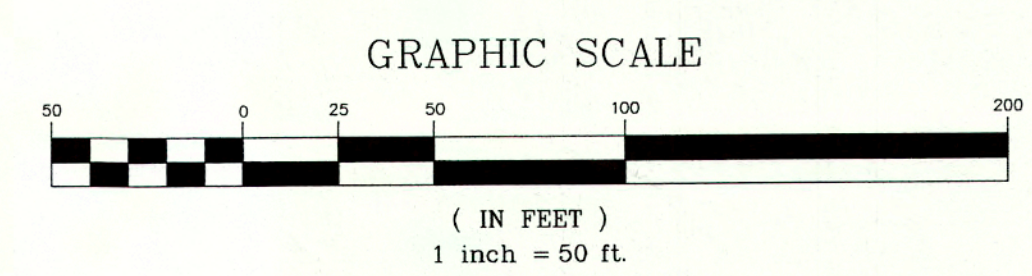


**STRIPING PLAN - FRONT STREET AT TERRILL ROAD**  
SCALE: 1" = 20'



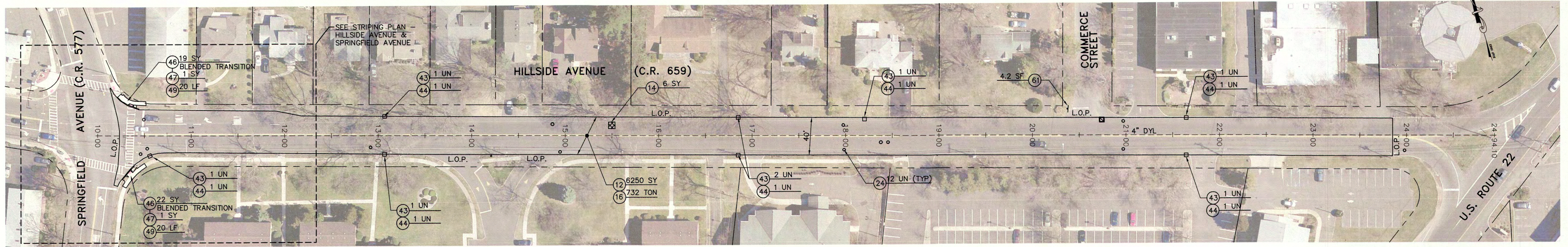
**STRIPING PLAN - FRONT STREET AT PARK AVENUE**  
SCALE: 1" = 20'

TO BE CONSTRUCTED				
ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	AS BUILT QUANTITY
12	HMA MILLING, 3" OR LESS	SY	14799	
14	HOT MIX ASPHALT PAVEMENT REPAIR	SY	41	
16	HOT MIX ASPHALT 9.5M64 SURFACE COURSE	TON	1736	
24	RESET EXISTING CASTING	UN	13	
46	CONCRETE SIDEWALK, 4" THICK	SY	29	
47	DETECTABLE WARNING SURFACE	SY	4	
49	10" X 20" CONCRETE VERTICAL CURB	LF	50	
50	BELGIAN BLOCK CURB	LF	10	
52	TRAFFIC STRIPES, THERMOPLASTIC, 4"	LF	5734	
53	TRAFFIC STRIPES, THERMOPLASTIC, 8"	LF	351	
54	TRAFFIC STRIPES, THERMOPLASTIC, 12"	LF	299	
55	TRAFFIC STRIPES, THERMOPLASTIC, 24"	LF	82	
56	TRAFFIC MARKINGS, THERMOPLASTIC	SF	120	
57	RPM, MONO-DIRECTIONAL, WHITE LENS	UN	4	
58	RPM, MONO-DIRECTIONAL, AMBER LENS	UN	4	
59	RPM, BI-DIRECTIONAL, AMBER LENS	UN	40	
61	STREET NAME SIGN, TYPE DF, BREAKAWAY SUPPORT	SF	20	
62	ACCESSORY PANEL, TYPE DF	SF	20	
67	TOPSOILING, 4" THICK	SY	10	
68	FERTILIZING AND SEEDING, TYPE A-3	SY	10	



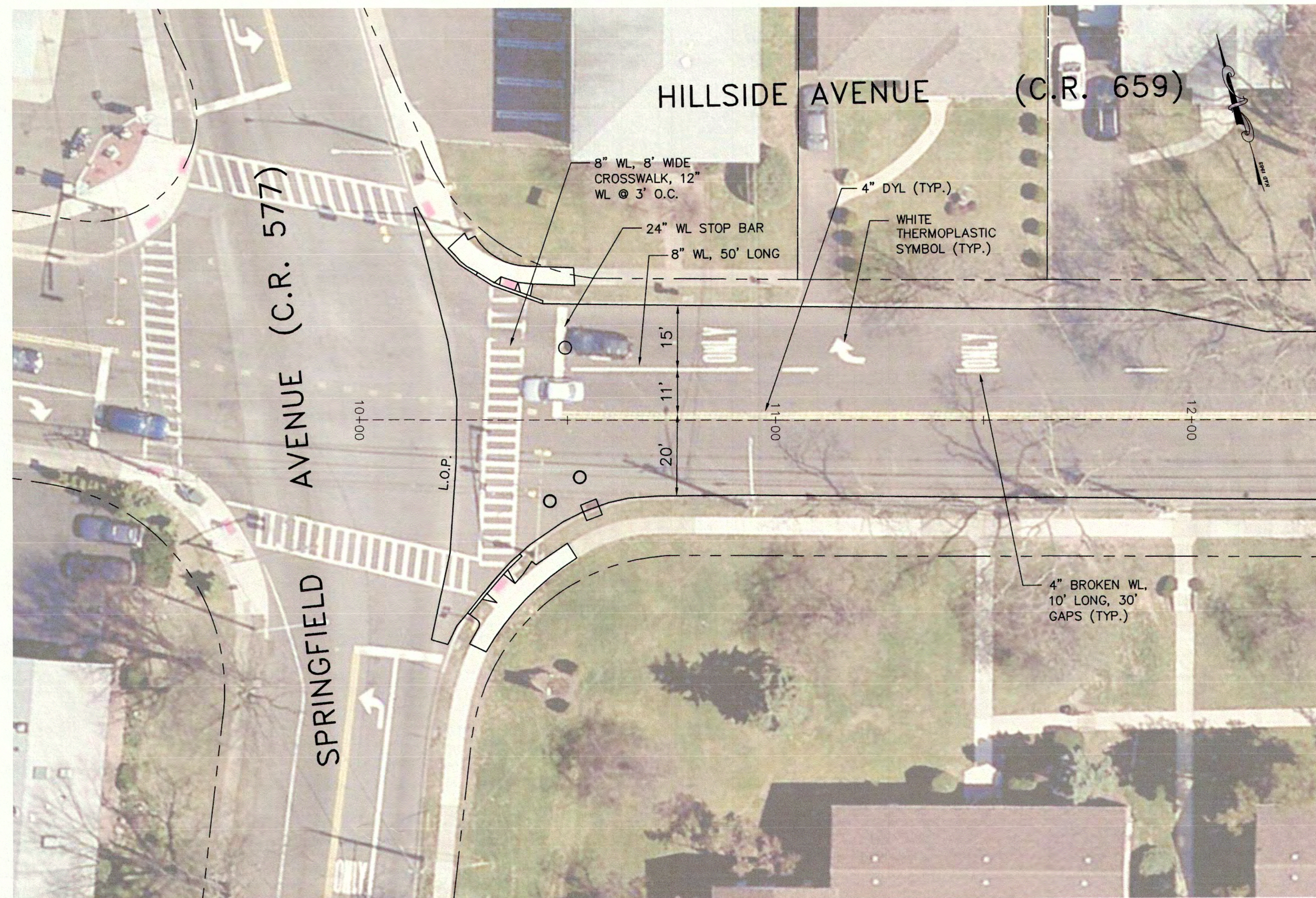
NO.	REVISION	DATE	BY	CHK.	BY
<b>FRONT STREET</b>					
<b>2015 COUNTY AID</b>					
<b>RESURFACING PROJECT</b>					
SCOTCH PLAINS TOWNSHIP, UNION-COUNTY, NEW JERSEY					
DATE: _____			DATE: <u>2-13-15</u>		
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882			<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321		
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b>					
300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094					
(201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVAE.COM					
Certificate of Authorization: 24 GA 28003800					
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY	DWG. NO.
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015
DWG. FILE PATH/NAME					SHEET. NO.
T:\Transportation_Bridge\Union County\2000X015 - 2015 Road Resurfacing\Drawings\VR-2000X015-FRONT.dwg					21 OF 50





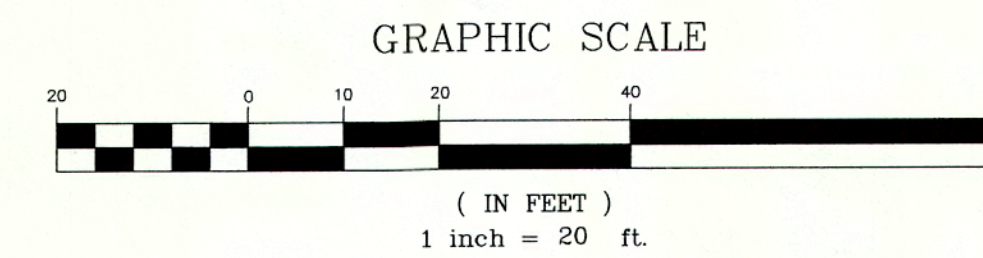
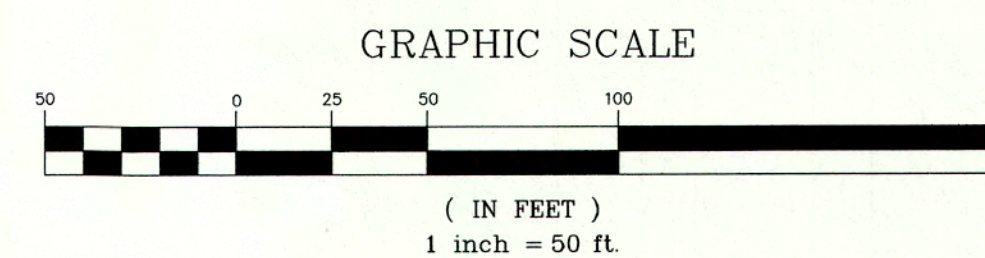
**CONSTRUCTION PLAN**

SCALE: 1" = 50'



**STRIPING PLAN - HILLSIDE AVENUE & SPRINGFIELD AVENUE**

SCALE: 1" = 20'

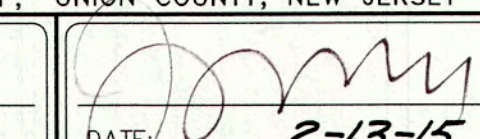
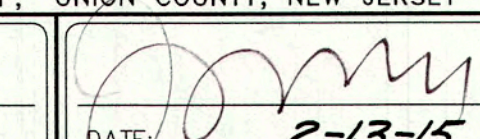


TO BE CONSTRUCTED				
ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	AS BUILT QUANTITY
12	HMA MILLING, 3" OR LESS	SY	6250	
14	HOT MIX ASPHALT PAVEMENT REPAIR	SY	6	
16	HOT MIX ASPHALT 9.5M64 SURFACE COURSE	TON	732	
24	RESET EXISTING CASTING	UN	12	
43	BICYCLE SAFE GRATE	UN	8	
44	CURB PIECE	UN	7	
46	CONCRETE SIDEWALK, 4" THICK	SY	41	
47	DETECTABLE WARNING SURFACE	SY	2	
49	10" X 20" CONCRETE VERTICAL CURB	LF	40	
52	TRAFFIC STRIPES, THERMOPLASTIC, 4"	LF	2580	
53	TRAFFIC STRIPES, THERMOPLASTIC, 8"	LF	210	
55	TRAFFIC STRIPES, THERMOPLASTIC, 24"	LF	216	
56	TRAFFIC MARKINGS, THERMOPLASTIC	SF	70	
57	RPM, MONO-DIRECTIONAL, WHITE LENS	UN	3	
59	RPM, BI-DIRECTIONAL, AMBER LENS	UN	17	
62	ACCESSORY PANEL, TYPE DF	SF	4.2	
67	TOPSOILING, 4" THICK	SY	30	
68	FERTILIZING AND SEEDING, TYPE A-3	SY	30	

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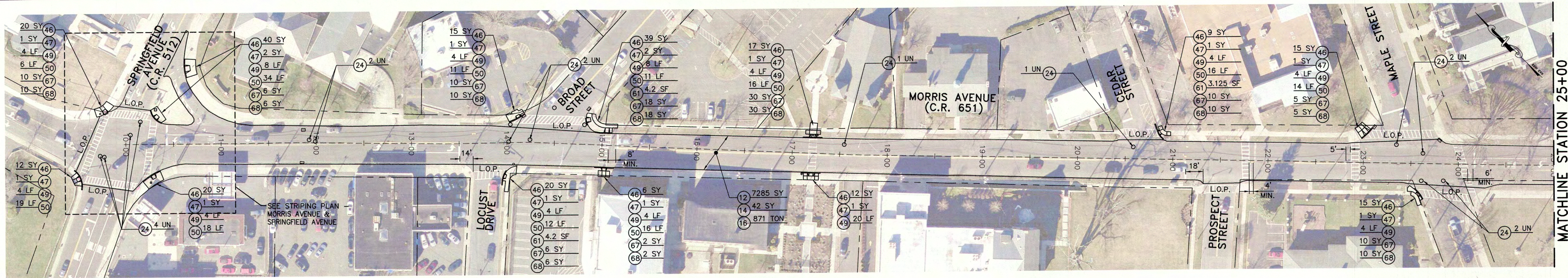
NO.	REVISION	DATE	BY	CHK. BY
<b>HILLSIDE AVE.</b> <b>2015 COUNTY AID</b> <b>RESURFACING PROJECT</b> SPRINGFIELD TOWNSHIP, UNION COUNTY, NEW JERSEY				
DATE:	 <b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882		DATE:	<b>2-13-15</b>  <b>FRANK J. SENEV JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b> 300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094 (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM <small>Certificate of Authorization: 24 GA 28003800</small>				
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.
DWG. NO.	2000X015	SHEET. NO.		22 OF 50
<small>DWG. FILE PATH/NAME: T:\Transportation\Bridge\Union County\2000X015 - 2015 Road Resurfacing\Drawings\R-2000X015-HILLSIDE.dwg</small>				

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CP-31



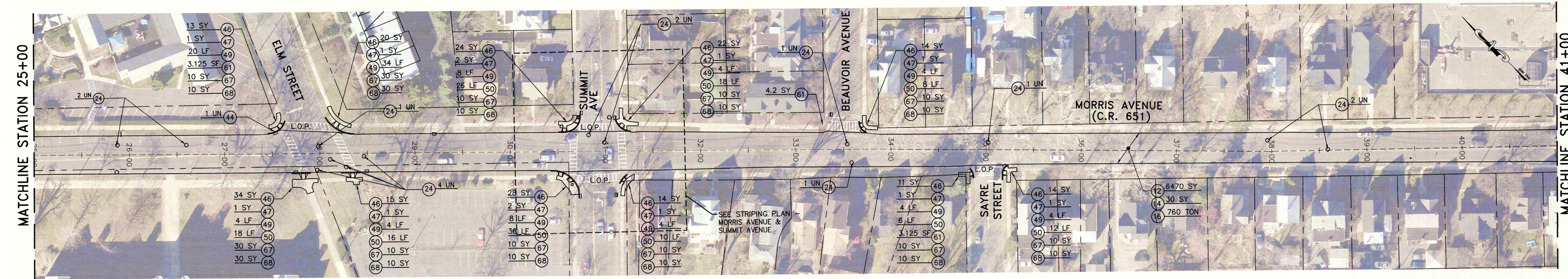






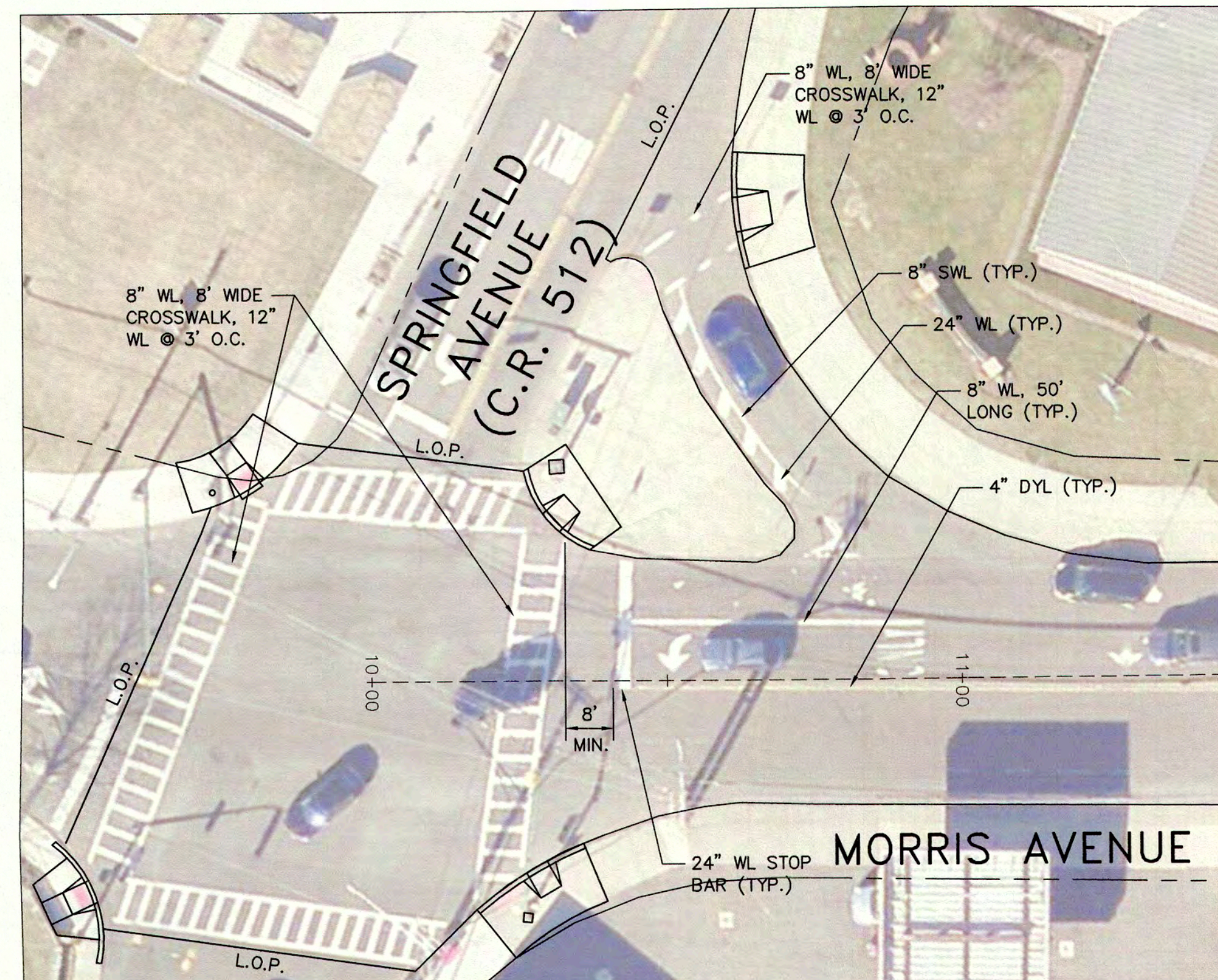
**CONSTRUCTION PLAN**

SCALE: 1" = 50'



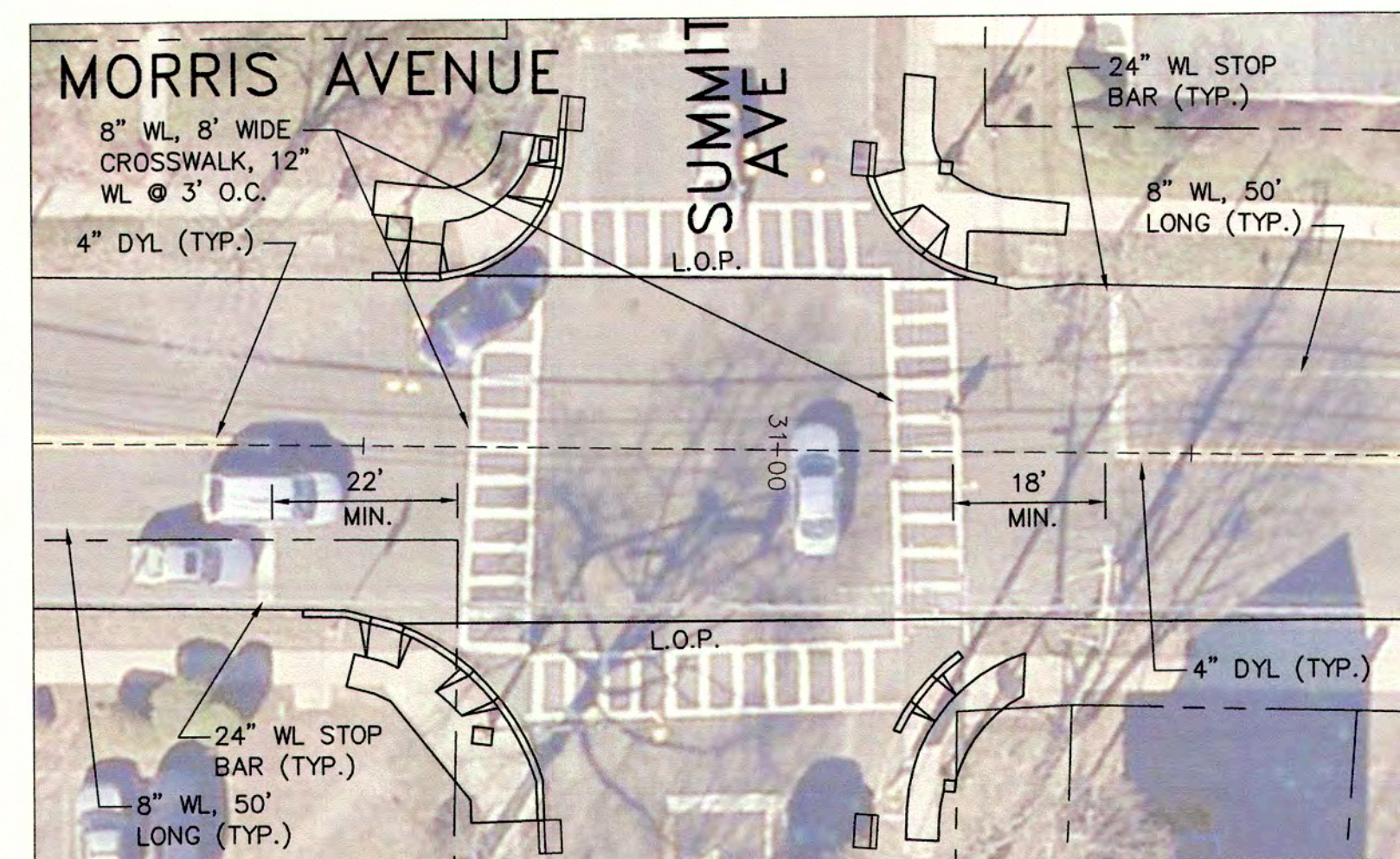
**CONSTRUCTION PLAN**

SCALE: 1" = 50'



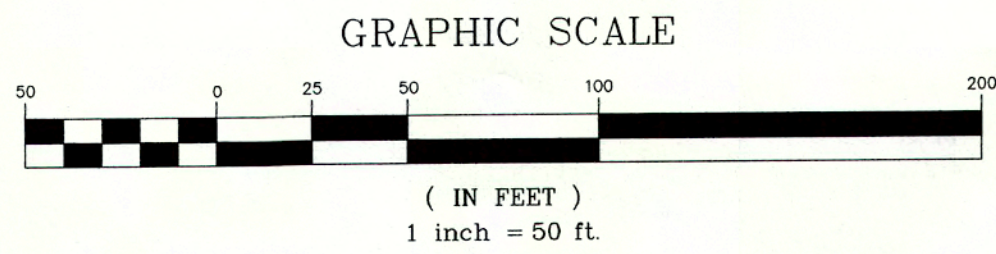
**STRIPING PLAN - MORRIS AVENUE & SPRINGFIELD AVENUE**

SCALE: 1" = 20'



**STRIPING PLAN - MORRIS AVENUE & SUMMIT AVENUE**

SCALE: 1" = 20'

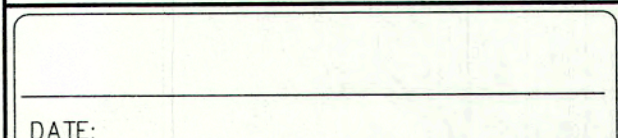
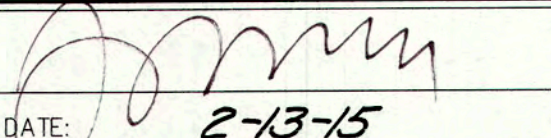


TO BE CONSTRUCTED				
ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	AS BUILT QUANTITY
12	HMA MILLING, 3" OR LESS	SY	13755	
14	HOT MIX ASPHALT PAVEMENT REPAIR	SY	80	
16	HOT MIX ASPHALT 9.5M4 SURFACE COURSE	TON	1631	
24	RESET EXISTING CASTING	UN	25	
44	CURB PIECE	UN	1	
46	CONCRETE SIDEWALK, 4" THICK	SY	449	
47	DETECTABLE WARNING SURFACE	SY	28	
49	10" X 20" CONCRETE VERTICAL CURB	LF	174	
50	BELGIAN BLOCK CURB	LF	323	
52	TRAFFIC STRIPES, THERMOPLASTIC, 4"	LF	4840	
53	TRAFFIC STRIPES, THERMOPLASTIC, 8"	LF	1484	
54	TRAFFIC STRIPES, THERMOPLASTIC, 12"	LF	1640	
55	TRAFFIC STRIPES, THERMOPLASTIC, 24"	LF	184	
56	TRAFFIC MARKINGS, THERMOPLASTIC	SF	165	
57	RPM, MONO-DIRECTIONAL, WHITE LENS	UN	6	
59	RPM, BI-DIRECTIONAL, AMBER LENS	UN	38	
61	STREET NAME SIGN, TYPE DF, BREAKAWAY SUPPORT	SF	21	
62	ACCESSORY PANEL, TYPE DF	SF	4.2	
67	TOPSOILING, 4" THICK	SY	257	
68	FERTILIZING AND SEEDING, TYPE A-3	SY	257	

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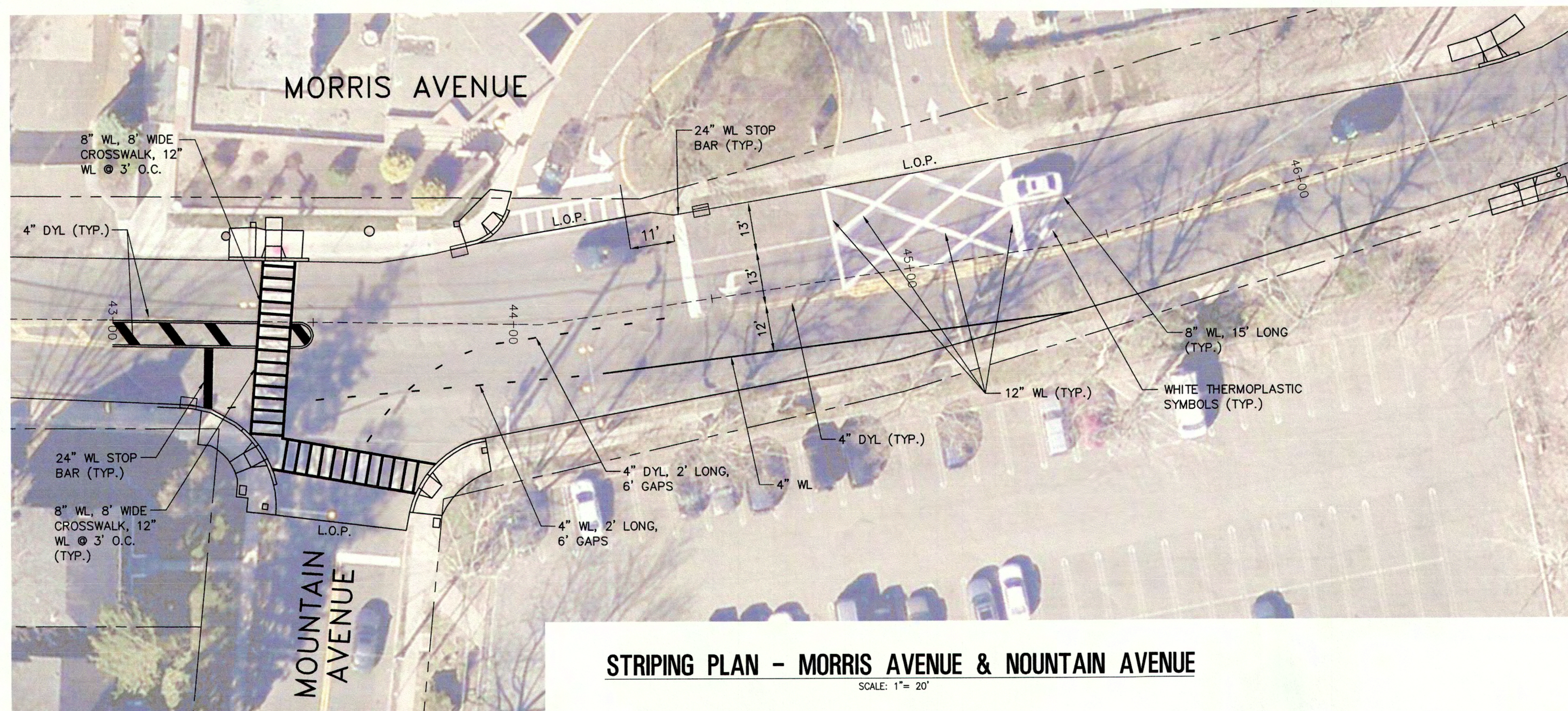
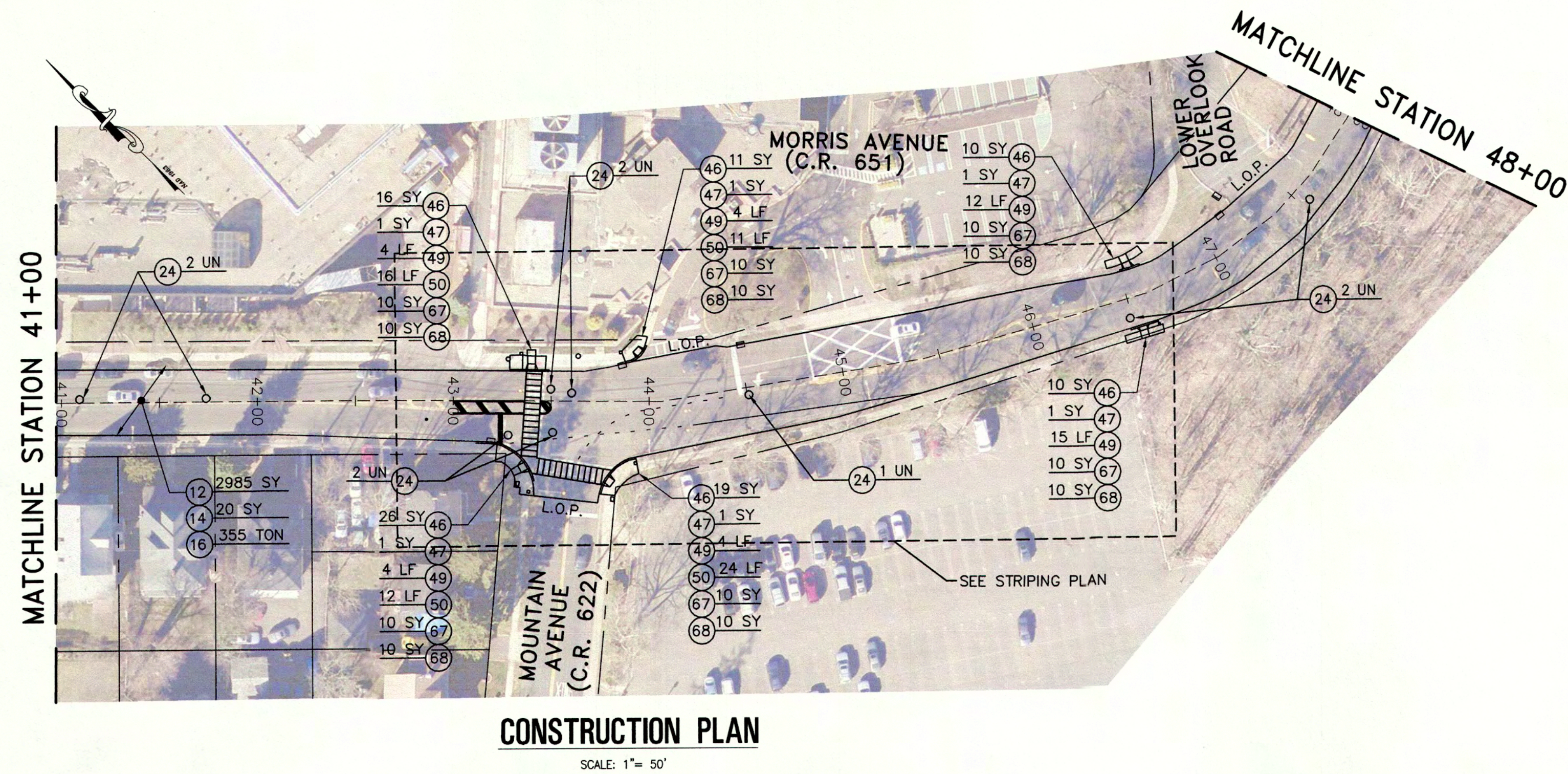
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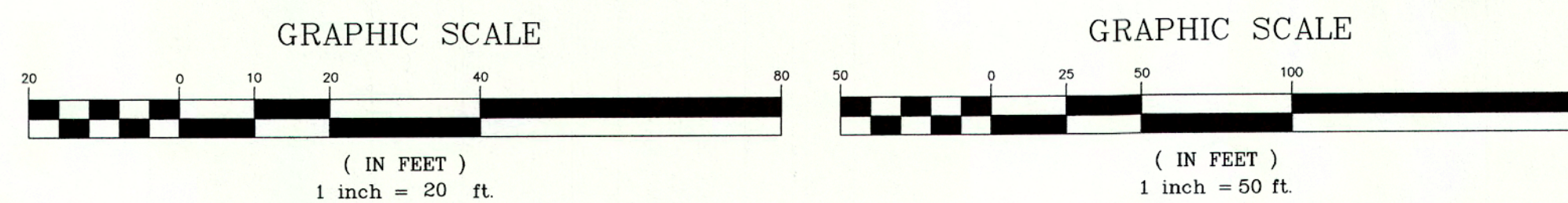
NO.	REVISION	DATE	BY	CHK. BY		
<b>MORRIS AVENUE</b>						
<b>2015 COUNTY AID</b>						
<b>RESURFACING PROJECT</b>						
SUMMIT CITY, UNION COUNTY, NEW JERSEY						
DATE:	 <b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882			DATE:	 <b>FRANK J. SENEJ JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321	
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b> 300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094 (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM Certificate of Authorization: 24 GA 28003800						
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY	DWG. NO.	SHEET. NO.
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015	24 OF 50
DWG FILE PATH/NAME: T:\Transportation\Bridge\Union County\2000X015 - 2015 Road Resurfacing\Drawings\VR-2000X015-MORRIS.dwg						

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TO BE CONSTRUCTED				
ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	AS BUILT QUANTITY
12	HMA MILLING, 3" OR LESS	SY	2985	
14	HOT MIX ASPHALT PAVEMENT REPAIR	SY	20	
16	HOT MIX ASPHALT 9.5M84 SURFACE COURSE	TON	355	
24	RESET EXISTING CASTING	UN	9	
46	CONCRETE SIDEWALK, 4" THICK	SY	92	
47	DETECTABLE WARNING SURFACE	SY	6	
49	10" X 20" CONCRETE VERTICAL CURB	LF	43	
50	BELGIAN BLOCK CURB	LF	63	
52	TRAFFIC STRIPES, THERMOPLASTIC, 4"	LF	1690	
53	TRAFFIC STRIPES, THERMOPLASTIC, 8"	LF	210	
54	TRAFFIC STRIPES, THERMOPLASTIC, 12"	LF	466	
55	TRAFFIC STRIPES, THERMOPLASTIC, 24"	LF	80	
56	TRAFFIC MARKINGS, THERMOPLASTIC	SF	30	
57	RPM, MONO-DIRECTIONAL, WHITE LENS	UN	3	
58	RPM, MONO-DIRECTIONAL, AMBER LENS	UN	8	
59	RPM, BI-DIRECTIONAL, AMBER LENS	UN	8	
67	TOPSOLING, 4" THICK	SY	60	
68	FERTILIZING AND SEEDING, TYPE A-3	SY	60	



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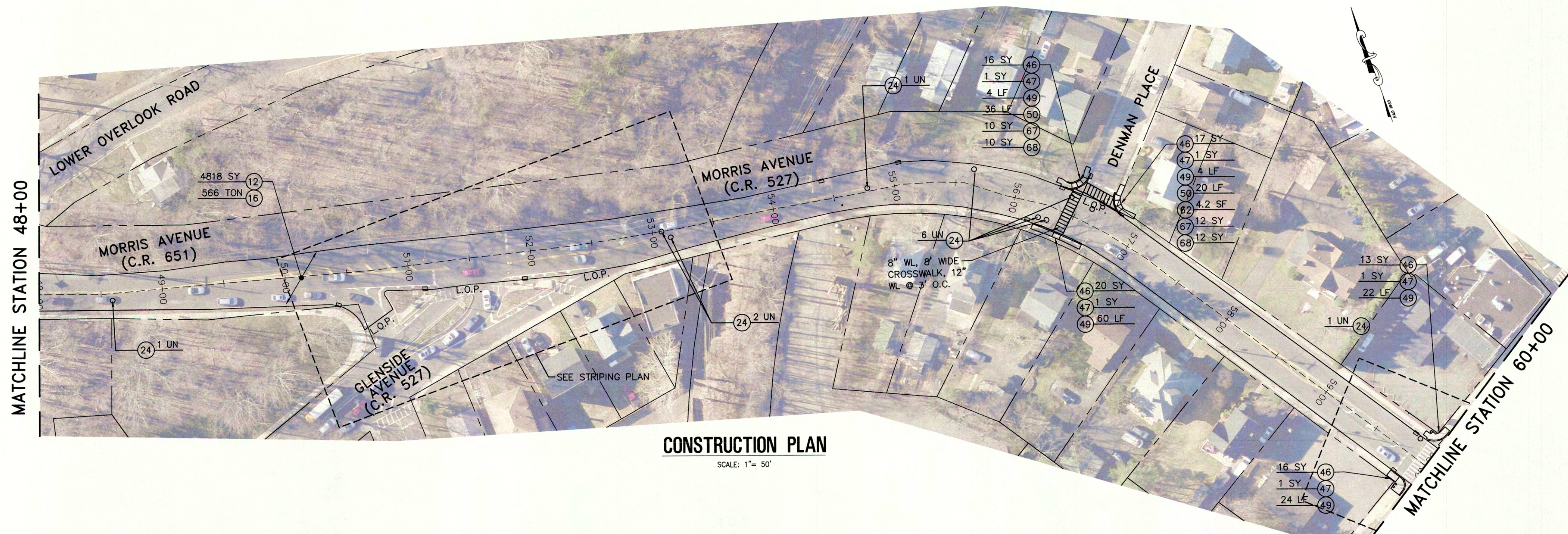
ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS; AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

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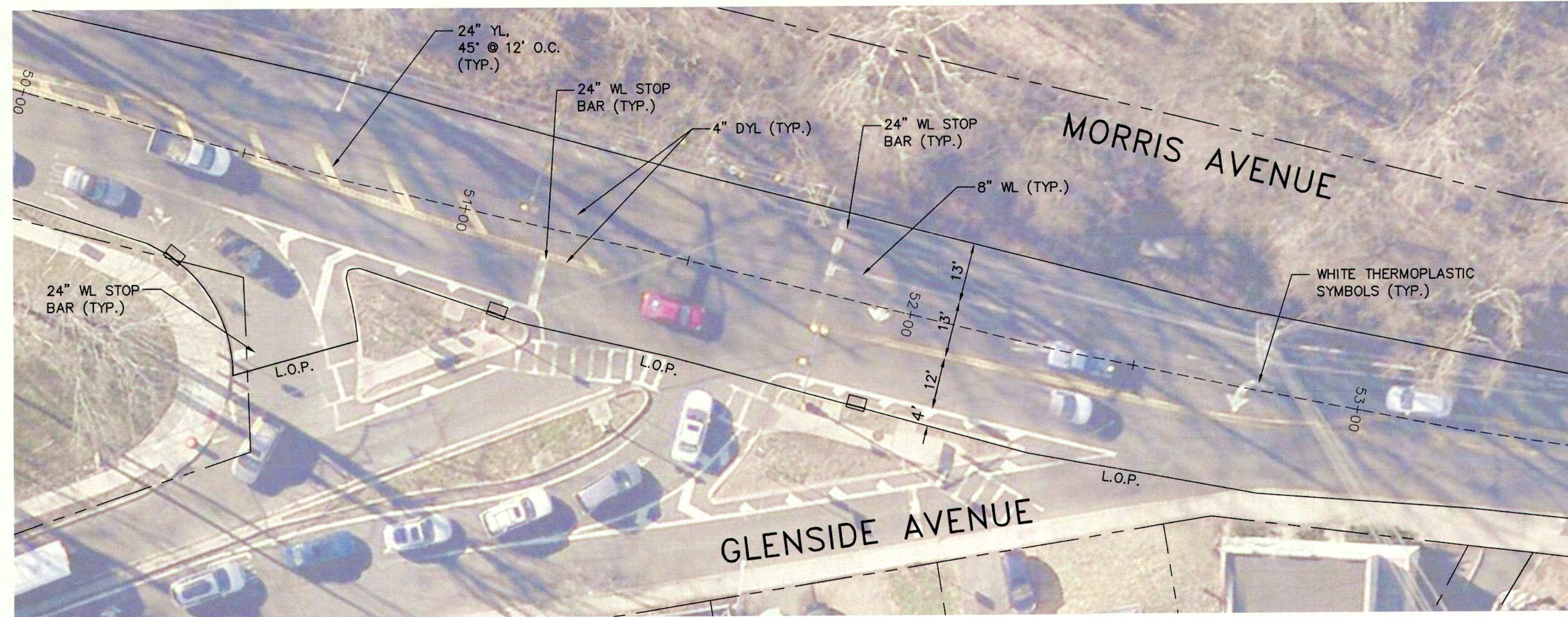
NO.	REVISION	DATE	BY	CHK. BY		
<b>MORRIS AVENUE</b>						
<b>2015 COUNTY AID</b>						
<b>RESURFACING PROJECT</b>						
SUMMIT CITY, UNION COUNTY, NEW JERSEY						
DATE:	DATE: <i>2-13-15</i>					
<b>RICHARD G. ARANGO</b>	<b>FRANK J. SENEY JR.</b>					
NJ PROFESSIONAL ENGINEER LIC. No. 38882	NJ PROFESSIONAL ENGINEER LIC. No. 35321					
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b>						
300 PENHORN AVENUE, 3RD FLOOR, SECAUGUS, NJ 07094						
(201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM						
Certificate of Authorization: 24 GA 28003800						
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY	DWG. NO.	SHEET. NO.
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015	25 OF 50
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CP-25  
CP-31



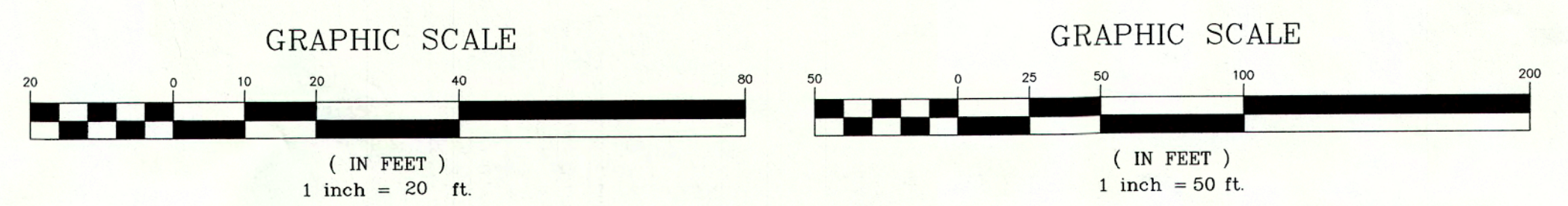


**CONSTRUCTION PLAN**  
SCALE: 1" = 50'



**STRIPING PLAN - MORRIS AVENUE & GLENSIDE AVENUE**  
SCALE: 1" = 20'

TO BE CONSTRUCTED				
ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	AS BUILT QUANTITY
12	HMA MILLING, 3" OR LESS	SY	4818	
16	HOT MIX ASPHALT 9.5M64 SURFACE COURSE	TON	566	
24	RESET EXISTING CASTING	UN	11	
46	CONCRETE SIDEWALK, 4" THICK	SY	82	
47	DETECTABLE WARNING SURFACE	SY	5	
49	10" X 20" CONCRETE VERTICAL CURB	LF	114	
50	BELGIAN BLOCK CURB	LF	56	
52	TRAFFIC STRIPES, THERMOPLASTIC, 4"	LF	3210	
53	TRAFFIC STRIPES, THERMOPLASTIC, 8"	LF	390	
54	TRAFFIC STRIPES, THERMOPLASTIC, 12"	LF	264	
55	TRAFFIC STRIPES, THERMOPLASTIC, 24"	LF	280	
56	TRAFFIC MARKINGS, THERMOPLASTIC	SF	95	
57	RPM, MONO-DIRECTIONAL, WHITE LENS	UN	5	
58	RPM, MONO-DIRECTIONAL, AMBER LENS	UN	20	
59	RPM, BI-DIRECTIONAL, AMBER LENS	UN	17	
62	ACCESSORY PANEL, TYPE DF	SF	4.2	
67	TOPSOILING, 4" THICK	SY	114	
68	FERTILIZING AND SEEDING, TYPE A-3	SY	114	



CP-26  
CP-31

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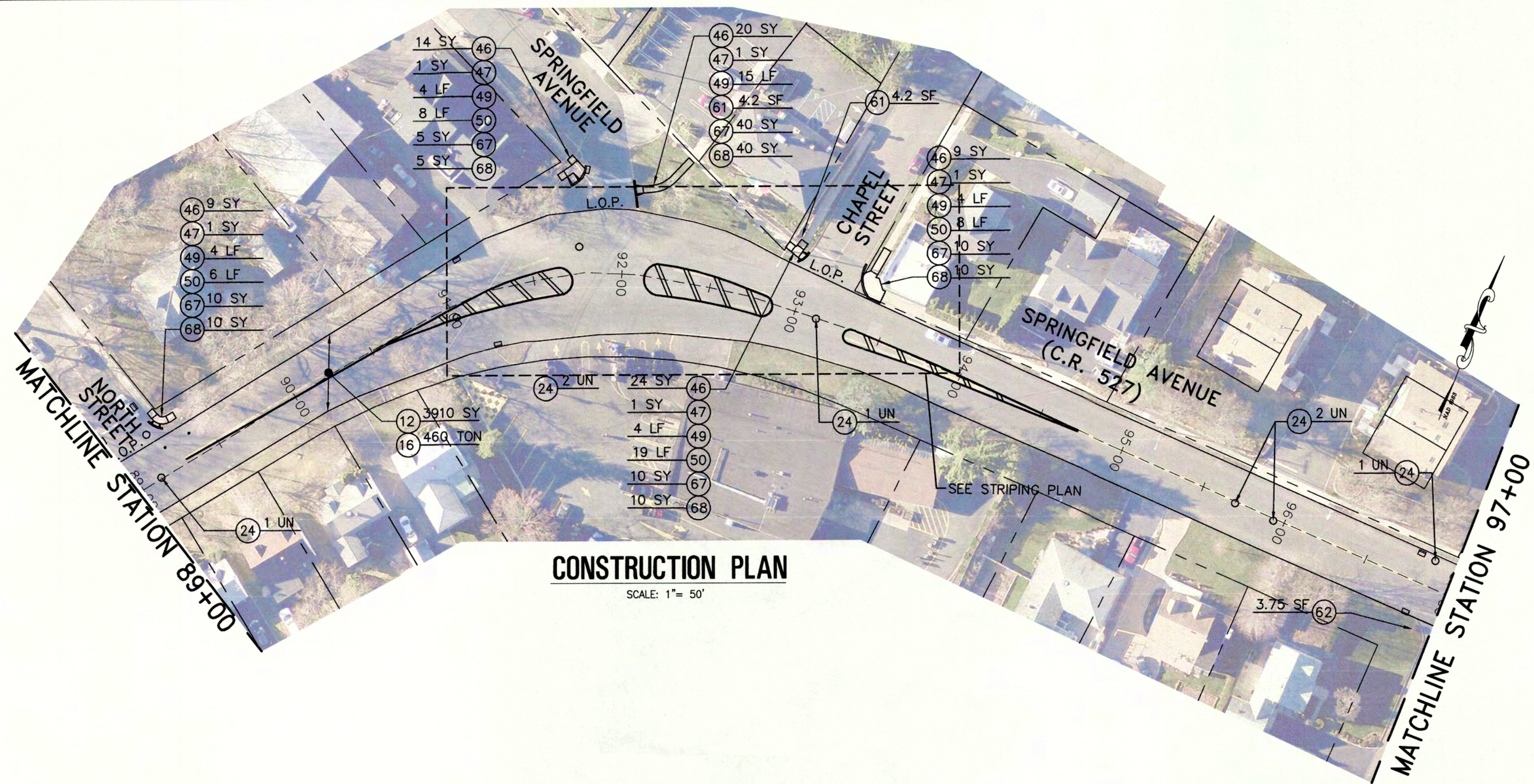
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NO.	REVISION	DATE	BY	CHK. BY		
<b>MORRIS AVENUE</b>						
<b>2015 COUNTY AID</b>						
<b>RESURFACING PROJECT</b>						
SUMMIT CITY, UNION COUNTY, NEW JERSEY						
DATE:	DATE: 2-13-15					
<b>RICHARD G. ARANGO</b>		<b>FRANK J. SENEY JR.</b>				
NJ PROFESSIONAL ENGINEER LIC. No. 38882		NJ PROFESSIONAL ENGINEER LIC. No. 35321				
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b>						
300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094						
(201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM						
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SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY	DWG. NO.	SHEET. NO.
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015	26 OF 50
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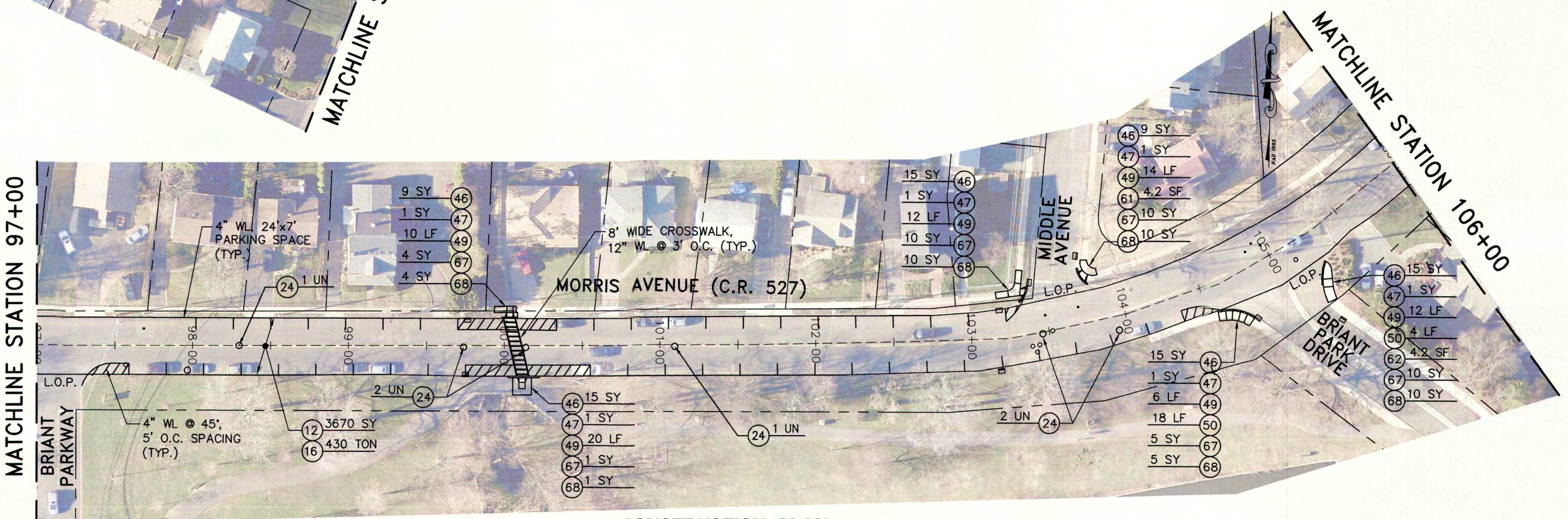




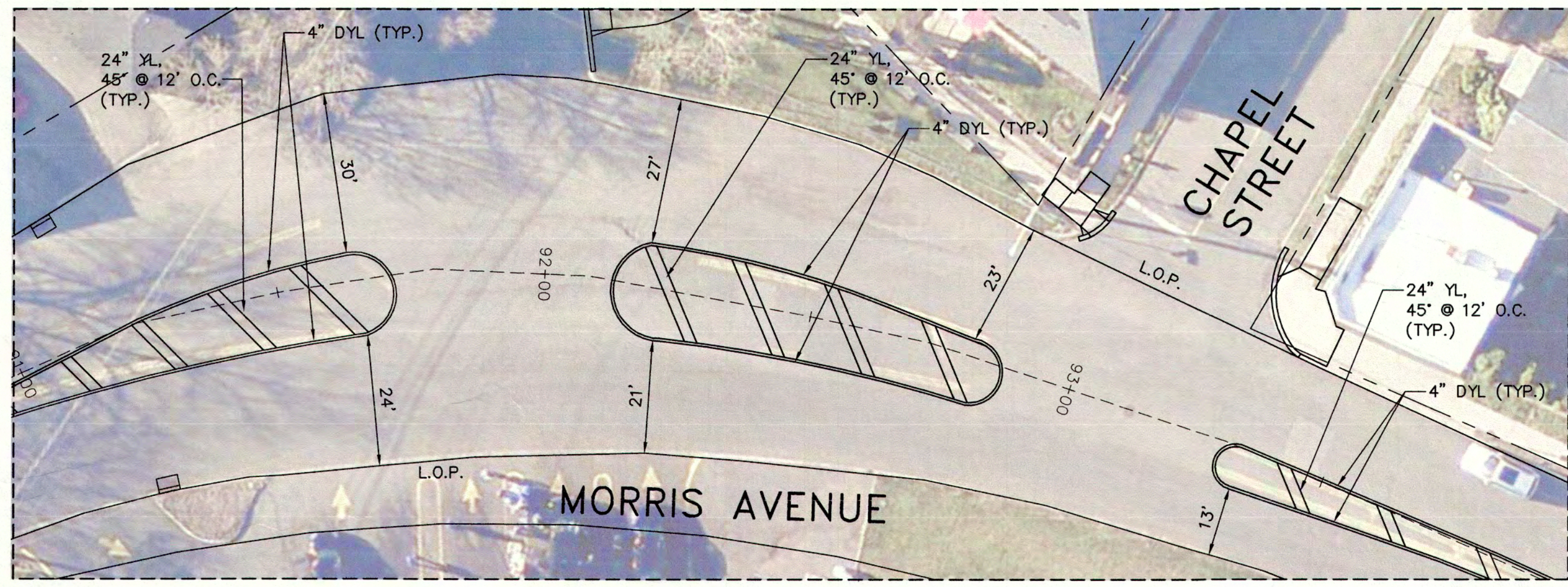




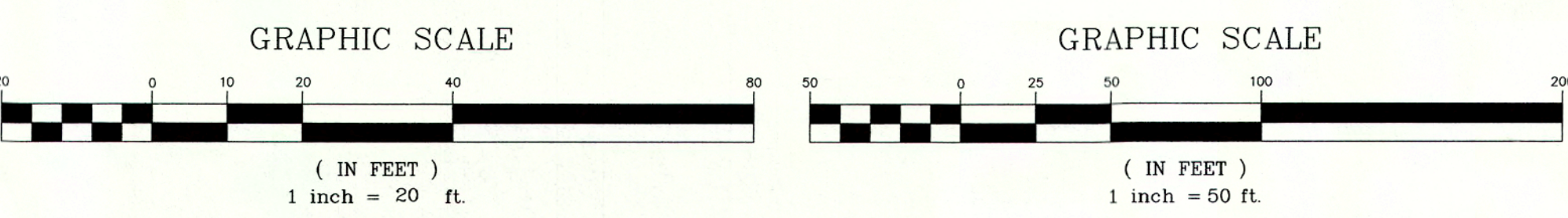
**CONSTRUCTION PLAN**  
SCALE: 1" = 50'



**CONSTRUCTION PLAN**  
SCALE: 1" = 50'



**STRIPING PLAN - MORRIS AVENUE & SPRINGFIELD AVENUE**  
SCALE: 1" = 20'



TO BE CONSTRUCTED				
ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	AS BUILT QUANTITY
12	HMA MILLING, 3" OR LESS	SY	7580	
16	HOT MIX ASPHALT 9.5M64 SURFACE COURSE	TON	890	
24	RESET EXISTING CASTING	UN	13	
46	CONCRETE SIDEWALK, 4" THICK	SY	154	
47	DETECTABLE WARNING SURFACE	SY	11	
49	10" X 20" CONCRETE VERTICAL CURB	LF	105	
50	BELGIAN BLOCK CURB	LF	63	
52	TRAFFIC STRIPES, THERMOPLASTIC, 4"	LF	4341	
53	TRAFFIC STRIPES, THERMOPLASTIC, 8"	LF	70	
54	TRAFFIC STRIPES, THERMOPLASTIC, 12"	LF	184	
55	TRAFFIC STRIPES, THERMOPLASTIC, 24"	LF	145	
58	FPM, MONO-DIRECTIONAL, AMBER LENS	UN	20	
59	FPM, BI-DIRECTIONAL, AMBER LENS	UN	21	
61	STREET NAME SIGN, TYPE DF, BREAKAWAY SUPPORT	SF	12.6	
62	ACCESSORY PANEL, TYPE DF	SF	4.2	
67	TOPSOILING, 4" THICK	SY	115	
68	FERTILIZING AND SEEDING, TYPE A-3	SY	115	

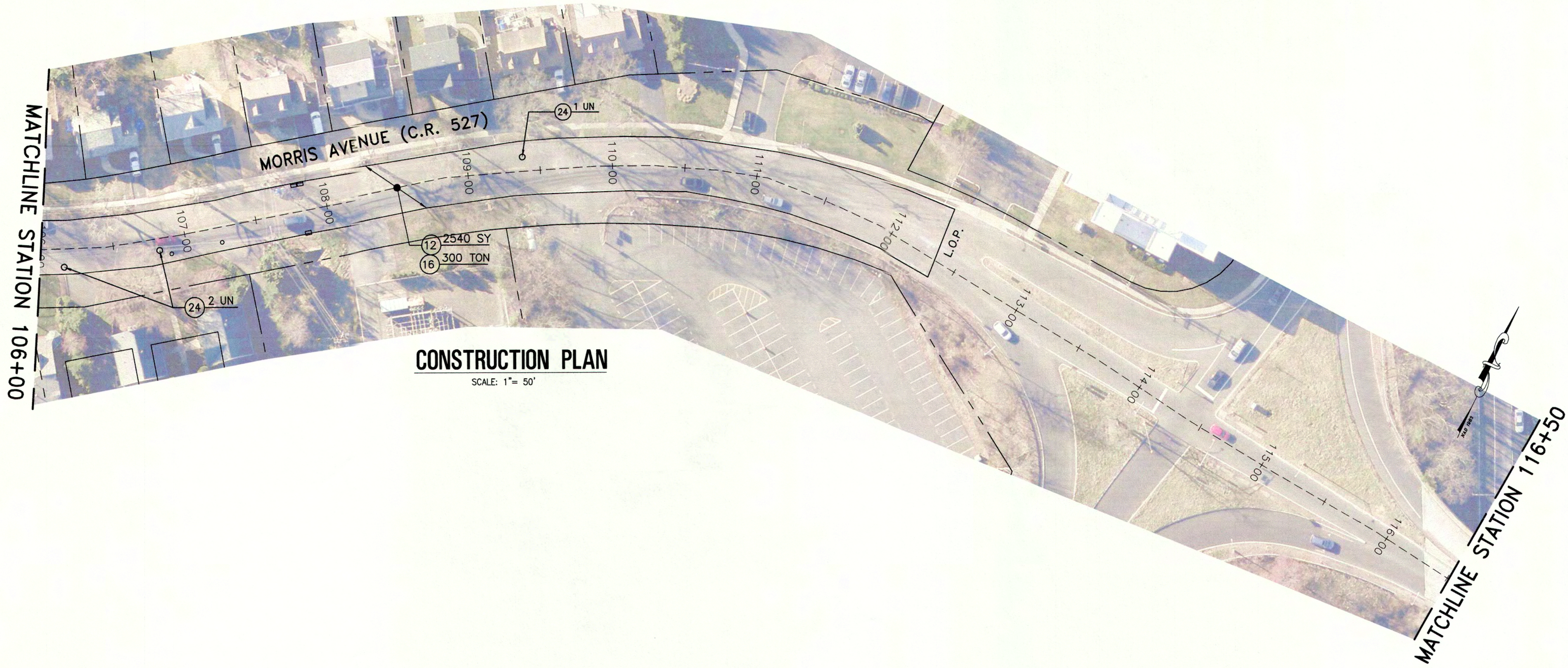
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NO.	REVISION	DATE	BY	CHK.	BY
<b>MORRIS AVENUE</b> <b>2015 COUNTY AID</b> <b>RESURFACING PROJECT</b> SUMMIT CITY, UNION COUNTY, NEW JERSEY					
DATE: _____			DATE: <i>2-13-15</i>		
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882			<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321		
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b> 300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094 (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RV&A.COM Certificate of Authorization: 24 GA 28003800					
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY	DWG. NO.
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015
DWG. FILE PATH NAME:	T:\Transportation\Bridge\Union County\2000X015 - 2015 Road Resurfacing\Drawings\VR-2000X015-MORRIS.dwg				
				SHEET NO.	28 OF 50

CP-28  
CP-31

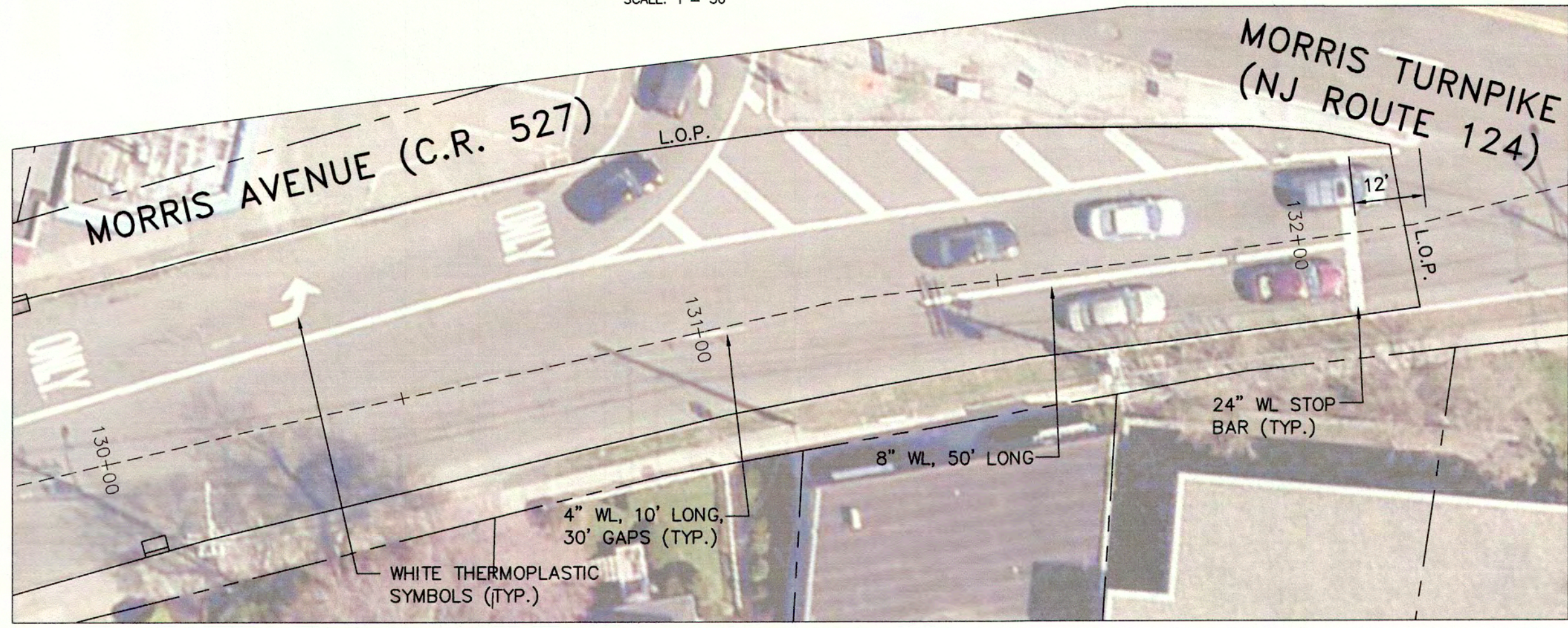




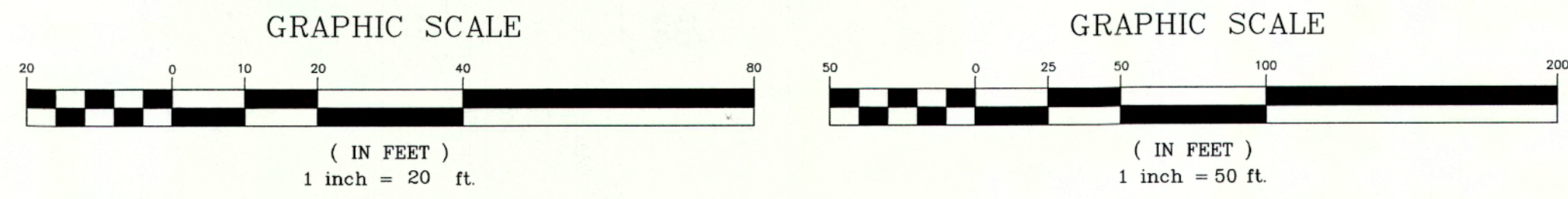
**CONSTRUCTION PLAN**  
SCALE: 1" = 50'



**CONSTRUCTION PLAN**  
SCALE: 1" = 50'



**STRIPING PLAN - MORRIS AVENUE & MORRIS TURNPIKE**  
SCALE: 1" = 20'



TO BE CONSTRUCTED				
ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	AS BUILT QUANTITY
12	HMA MILLING, 3" OR LESS	SY	7440	
16	HOT MIX ASPHALT 9.5M64 SURFACE COURSE	TON	880	
24	RESET EXISTING CASTING	UN	16	
46	CONCRETE SIDEWALK, 4" THICK	SY	27	
47	DETECTABLE WARNING SURFACE	SY	2	
49	10" X 20" CONCRETE VERTICAL CURB	LF	22	
50	BELGIAN BLOCK CURB	LF	12	
52	TRAFFIC STRIPES, THERMOPLASTIC, 4"	LF	3974	
53	TRAFFIC STRIPES, THERMOPLASTIC, 8"	LF	335	
55	TRAFFIC STRIPES, THERMOPLASTIC, 24"	LF	130	
56	TRAFFIC MARKINGS, THERMOPLASTIC	SF	80	
57	RPM, MONO-DIRECTIONAL, WHITE LENS	UN	8	
59	RPM, BI-DIRECTIONAL, AMBER LENS	UN	41	
67	TOPSOILING, 4" THICK	SY	20	
68	FERTILIZING AND SEEDING, TYPE A-3	SY	20	

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PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

NO.	REVISION	DATE	BY	CHK. BY
<b>MORRIS AVENUE</b>				
<b>2015 COUNTY AID</b>				
<b>RESURFACING PROJECT</b>				
SUMMIT CITY, UNION COUNTY, NEW JERSEY				
DATE:				DATE: 2-13-15
<b>RICHARD G. ARANGO</b>				<b>FRANK J. SENEY JR.</b>
NJ PROFESSIONAL ENGINEER LIC. No. 38882				NJ PROFESSIONAL ENGINEER LIC. No. 35321
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b>				
300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094				
(201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM				
Certificate of Authorization: 24 CA 28003800				
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.
DWG. NO.	29	DWG. NO.	29	SHEET. NO.
2000X015	29	2000X015	29	OF 50
DWG. FILE PATH/NAME: T:\Transportation\Bridge\Union County\2000X015 - 2015 Road Resurfacing\Drawings\R-2000X015-MORRIS.dwg				

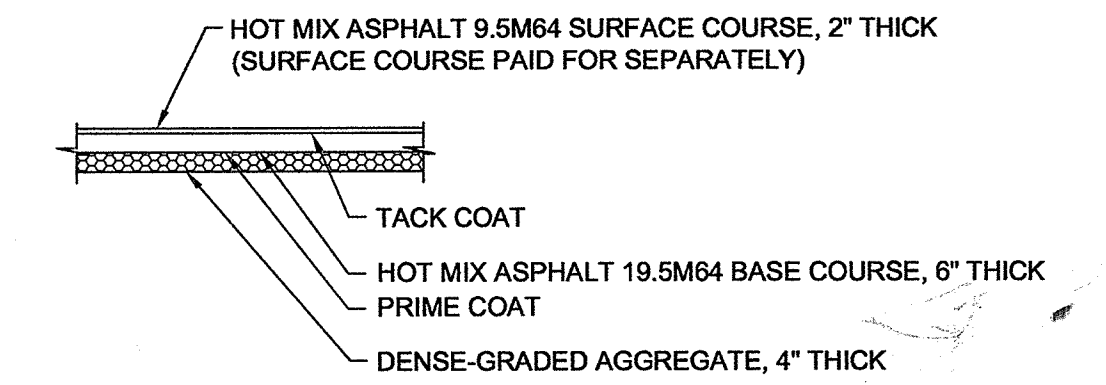
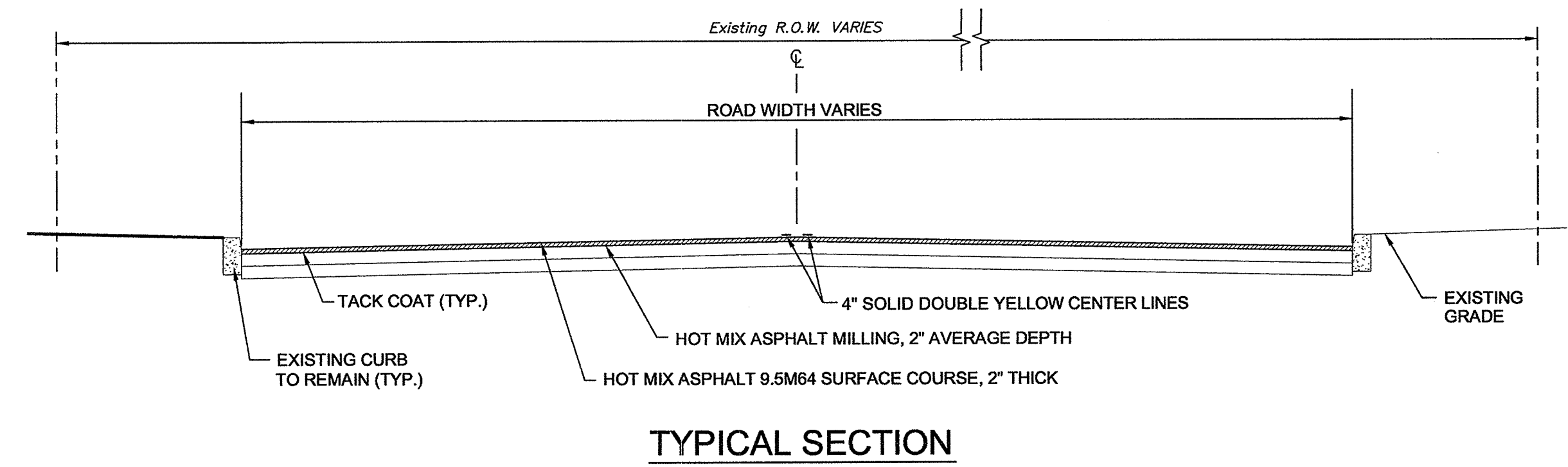
CP-29  
CP-31



# STANDARD LEGEND

NOTE: ALL SYMBOLS MAY NOT BE USED.

ITEM	DESCRIPTION	EXISTING	PROPOSED	ITEM	DESCRIPTION	EXISTING	PROPOSED		
UTILITIES	SANITARY SEWER (DRAWN TO SIZE 12" AND LARGER)			SURVEY	CROWS FEET				
	STORM SEWER (DRAWN TO SIZE 12" AND LARGER)				MONUMENT				
	CABLE TELEVISION				D.H. - DRILL HOLE				
	WATER MAIN (DRAWN TO SIZE 12" AND LARGER)				P.K. - PK NAIL				
	GAS MAIN (SIZE LABELED)				I.P. - IRON PIN				
	TELEPHONE CONDUIT				STAKE				
	ELECTRIC CONDUIT				BASELINES				
	FORCE MAIN (SIZE LABELED)				TWP., CITY, COUNTY LINE				
	FIBER OPTIC CABLE				PROPERTY LINES				
	ELECTRIC CONDUIT, HIGHWAY				LANDSCAPING	DECIDUOUS TREES (SIZE, KIND)			
	POWER LINE OVERHEAD					SHRUBS			
	CURB STOP (WATER SHUT-OFF)					EVERGREENS			
	WATER METER					TREE LINE			
	WATER VALVE					HEDGES			
	WATER GATE VALVE					WOOD STOCKADE FENCE			
GAS GATE VALVE (GAS SHUT-OFF)			CHAIN LINK/ WIRE FENCE						
BLOW-OFF VALVE			WIRE ROPE GUARD FENCE						
SEWER VENT			ENVIRONMENTAL	BORING LOCATION					
CLEANOUT				MONITORING WELL LOCATION					
WATER HYDRANT				GPS/GIS CONTROL POINT					
MANHOLES				SAMPLE LOCATION					
DRAINAGE	"B" INLET					TEST PIT LOCATION			
	"A" INLET					FRESHWATER WETLAND FLAGS			
	"E" DOUBLE INLET					FRESHWATER WETLANDS LINES			
	CITY INLET				FRESHWATER WETLANDS BUFFER				
	R.C. FLARED END SECTION				EXCAVATION/TEST PIT LIMIT LINE				
	HEADWALL				SITE PLAN	SPOT GRADE			
	HEADWALL W/WINGS					CONTOUR			
	HEADWALL W/WINGS & APRON					DITCH			
	DRAINAGE FLOW					SWALE			
	ROADWAY	EDGE OF PAVING (CONCRETE AND BITUMINOUS)					9"x18" CONCRETE VERTICAL CURB		
		CURB (SIZE, SLOPE, OR VERTICAL)					CONCRETE SIDEWALK		
		PAVEMENT/SIDEWALK/DRIVEWAY				STORM SEWER			
		RIGHT OF WAY LINES ACCESS PERMITTED				SANITARY SEWER			
		NO ACCESS				PARKING SPACES			
		BRIDGE (PLAN VIEW)				ADA ACCESSIBLE SPACES			
RAIL ROAD				UTILITY POLE					
TRAFFIC		POLE NO. & TYPE (UTILITY, GUY, LIGHT, ETC.)				UTILITY POLE W/GUY WIRE			
		LIGHT POST				LIGHT			
		TRAFFIC CONTROL BOX				SIGN			
		TRAFFIC LIGHT W/WAST ARM & BASE (ELECTRICAL PLAN)				FRESHWATER WETLANDS LINE AND FLAGS			
		TRAFFIC LIGHT W/WAST ARM & BASE (TRAFFIC PLAN)			FRESHWATER WETLANDS TRANSITION AREA LIMIT LINE				
		SIGNS (REGULATORY, WARNING, GUIDE, ETC.)			MISCELLANEOUS	INLET			
		BEAM GUIDE RAIL				TREE			
		SURVEY	GRADES			SHRUBS			
	TYPICAL SECTION ARROW			BENCHMARK LOCATION					
	TYPICAL NORTH ARROW			TYPICAL SECTION ARROW					
	NORTH POINT TO BE USED ON STANDARD CONSTRUCTION SHEETS WHERE BEARINGS REFER TO N.J. STATE PLANE COORDINATE SYSTEM.			TYPICAL NORTH ARROW					



**BASE REPAIR DETAIL**  
NOTE: ALL MATERIALS EXCEPT THE HMA SURFACE COURSE ARE INCLUDED IN THE "BASE REPAIR" PAY ITEM.

**GENERAL NOTES:**

- THE HORIZONTAL AND VERTICAL DATUMS ARE ASSUMED.
- PROPERTY AND RIGHT-OF-WAY LINES SHOWN ON THESE PLANS WERE BASED ON INFORMATION FROM THE NEW JERSEY OFFICE OF INFORMATION TECHNOLOGY, REVISED THROUGH AUGUST 28, 2014.
- EXISTING TOPOGRAPHIC CONDITIONS WERE NOT SURVEYED.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. ANY ERRORS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- LOCATION OF EXISTING UTILITIES MUST BE VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED MATERIALS IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
- ALL PAVED AND CONCRETE AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION AT LEAST EQUAL TO THAT WHICH EXISTED PRIOR TO THE START OF CONSTRUCTION, AS DIRECTED BY THE ENGINEER.
- ALL GRASSED OR WOODED AREAS DISTURBED DURING CONSTRUCTION SHALL BE TOPSOILED AND SEED.
- ALL FILL SHALL BE PLACED IN 6" LAYERS AND THOROUGHLY COMPACTED TO THE SATISFACTION OF THE ENGINEER. IF BORROW FILL IS REQUIRED, IT SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF UNDERGROUND, OVERHEAD, AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF CONSTRUCTION AND IT SHALL BE AT HIS OWN EXPENSE TO REPAIR OR REPLACE ANYTHING THAT HE DAMAGES.
- ALL CONSTRUCTION DETAILS NOT SHOWN SHALL BE IN ACCORDANCE WITH N.J.D.O.T. STANDARDS AS DETAILED IN:
  - \*STANDARD ROADWAY CONSTRUCTION/TRAFFIC CONTROL/BRIDGE CONSTRUCTION DETAILS, 2007 EDITION.\*
  - \*ELECTRICAL BUREAU STANDARD DETAILS, 2007 EDITION.\*
 INCLUDING ALL APPLICABLE BASELINE DOCUMENT CHANGES AND APPENDICES. THESE DETAILS MAY BE PURCHASED THROUGH THE N.J.D.O.T. PLANS AND SPECIFICATION DISTRIBUTION CENTER AT:  
 1035 PARKWAY AVENUE  
 TRENTON, NEW JERSEY  
 08625-0600  
 (TELEPHONE: 1-609-530-2098)

CP-3  
CP-31

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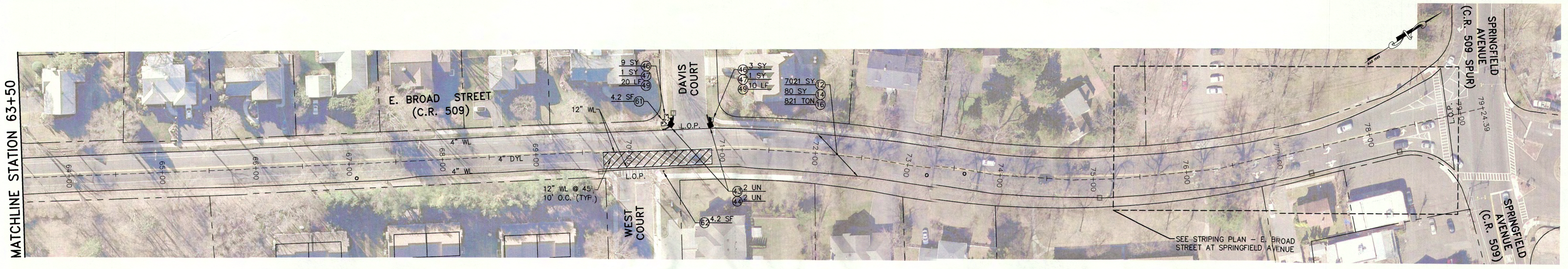
PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

NO.	REVISION	DATE	BY	CHK.	BY
<b>LEGEND, NOTES AND TYPICAL SECTIONS</b>					
<b>2015 COUNTY AID RESURFACING PROJECT</b> UNION COUNTY, NEW JERSEY					
DATE: 2-13-15		 <b>FRANK J. SENEV JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321			
DATE: 2/2015		 <b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882			
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b> 300 PENNHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094 (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM Certificate of Authorization: 24 GA 28003800					
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY	DWG. NO.
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015
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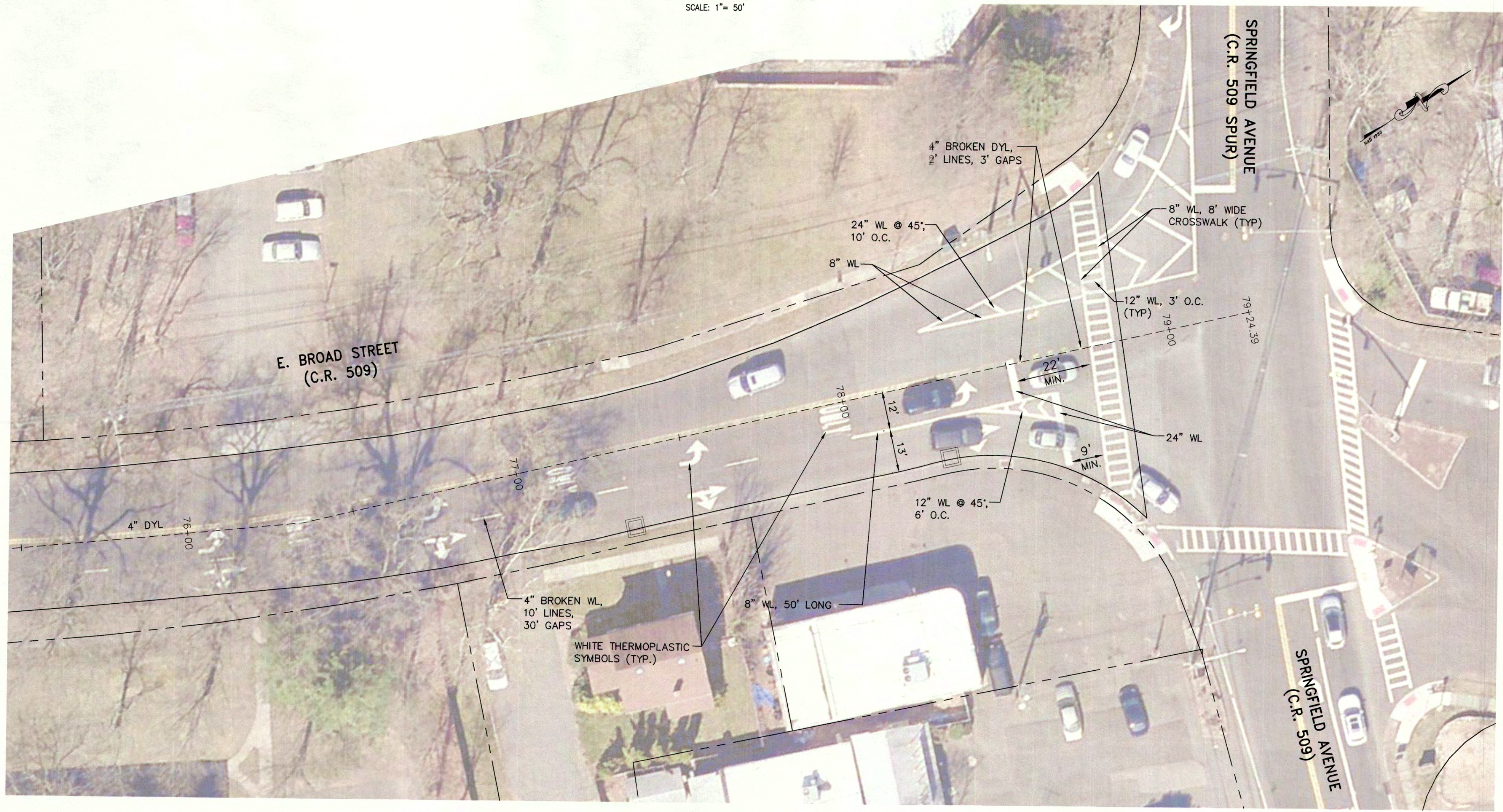






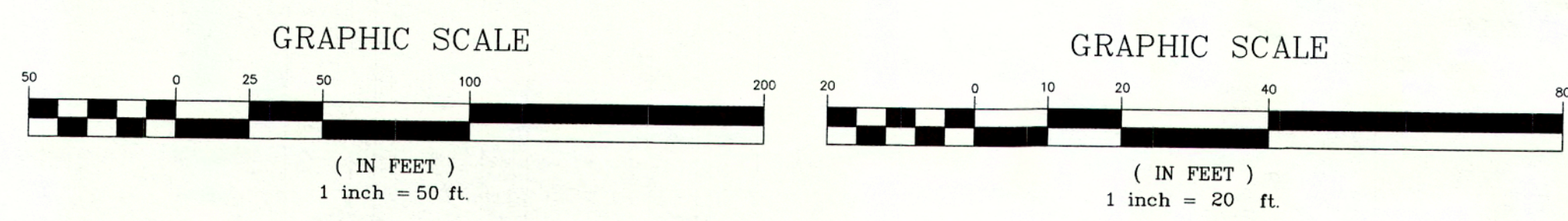


**CONSTRUCTION PLAN**  
SCALE: 1" = 50'



**STRIPING PLAN - E. BROAD STREET AT SPRINGFIELD AVENUE**  
SCALE: 1" = 20'

TO BE CONSTRUCTED				
ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	AS BUILT QUANTITY
12	HMA MILLING, 3" OR LESS	SY	7021	
14	HOT MIX ASPHALT PAVEMENT REPAIR	SY	80	
16	HOT MIX ASPHALT 9.5M64 SURFACE COURSE	TON	821	
24	RESET EXISTING CASTING	UN	2	
43	BICYCLE SAFE GRATE	UN	2	
44	CURB PIECE	UN	2	
46	CONCRETE SIDEWALK, 4" THICK	SY	12	
47	DETECTABLE WARNING SURFACE	SY	2	
49	10' X 20' CONCRETE VERTICAL CURB	LF	30	
52	TRAFFIC STRIPES, THERMOPLASTIC, 4"	LF	1115	
53	TRAFFIC STRIPES, THERMOPLASTIC, 8"	LF	375	
54	TRAFFIC STRIPES, THERMOPLASTIC, 12"	LF	1115	
55	TRAFFIC STRIPES, THERMOPLASTIC, 24"	LF	70	
56	TRAFFIC MARKINGS, THERMOPLASTIC	SF	242	
57	RPM, MONO-DIRECTIONAL, WHITE LENS	UN	12	
59	RPM, BI-DIRECTIONAL, AMBER LENS	UN	28	
61	STREET NAME SIGN, TYPE DF, BREAKAWAY SUPPORT	SF	4.2	
62	ACCESSORY PANEL, TYPE DF	SF	4.2	
67	TOPSOILING, 4" THICK	SY	10	
68	FERTILIZING AND SEEDING, TYPE A-3	SY	10	



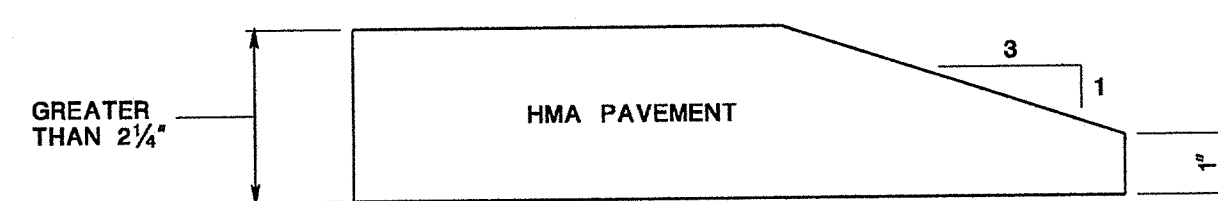
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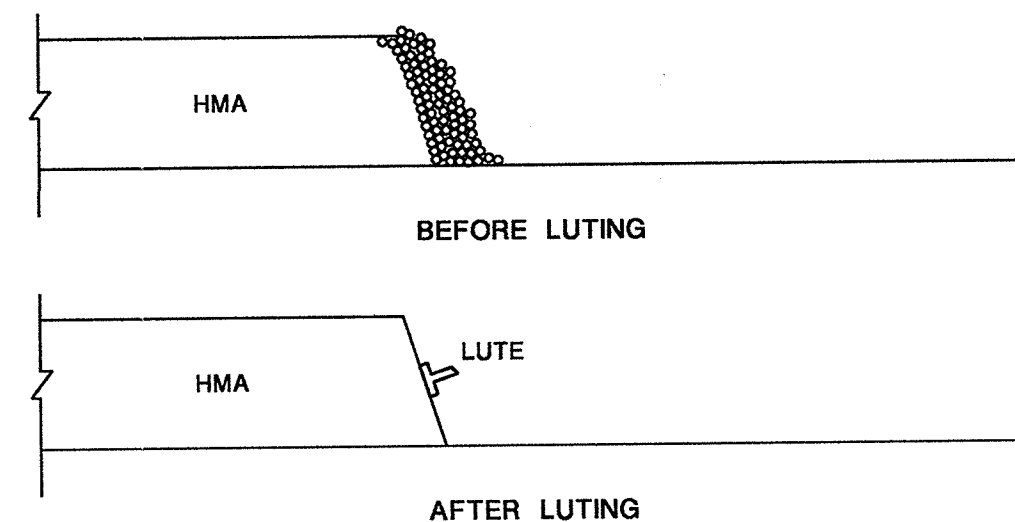
NO.	REVISION	DATE	BY	CHK. BY
<b>EAST BROAD STREET</b> 2015 COUNTY AID <b>RESURFACING PROJECT</b> WESTFIELD TOWNSHIP, UNION COUNTY, NEW JERSEY				
DATE: _____		DATE: <u>2-13-15</u>		
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882		<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321		
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b> <small>300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094          (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVAE.COM          Certificate of Authorization: 24 GA 28003800</small>				
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AS NOTED	2/2015	P.J.P.	D.M.M.	2000X015
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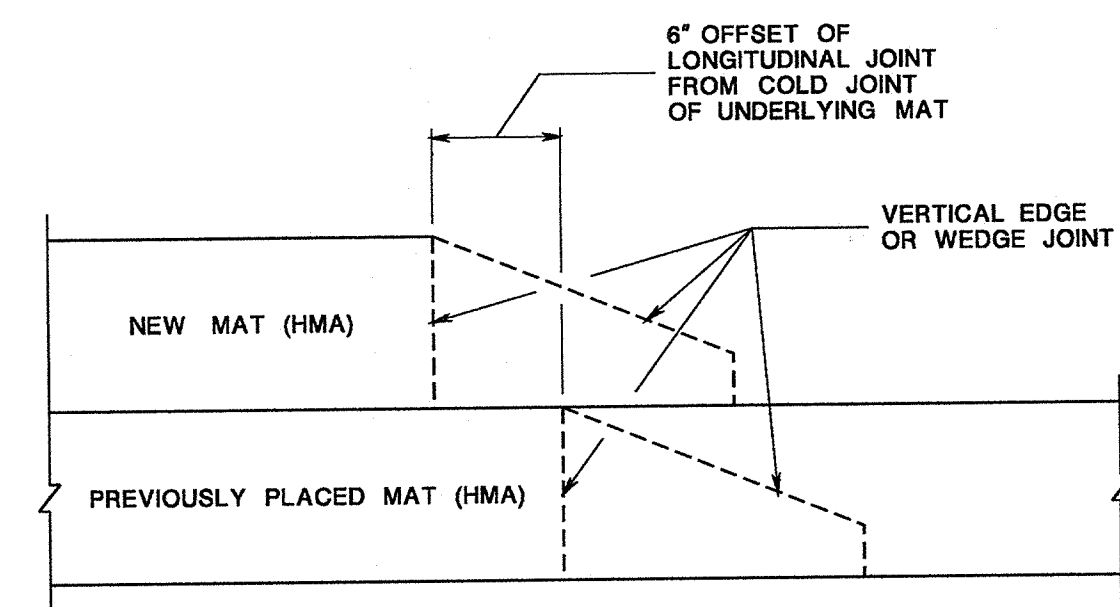
**WEDGE JOINT**  
(NOTE 1)

CD-401-2.1



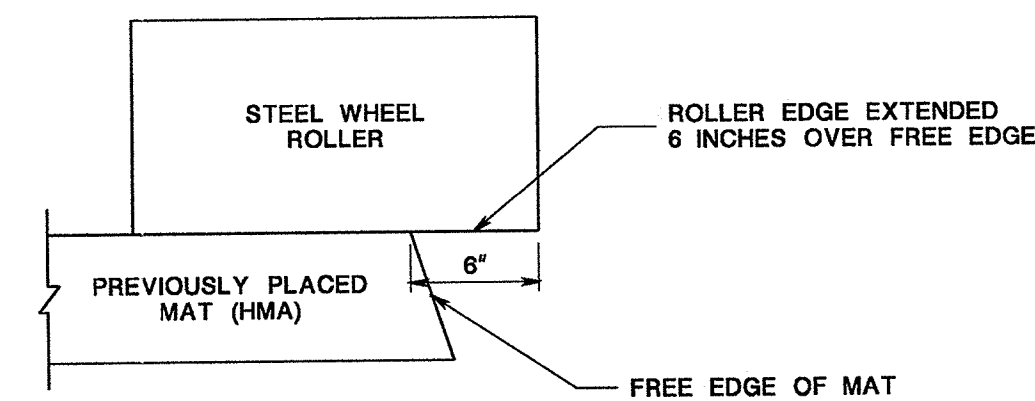
**COMPACTION OF UNCONFINED VERTICAL EDGE**  
(NOTE 3)

CD-401-2.4



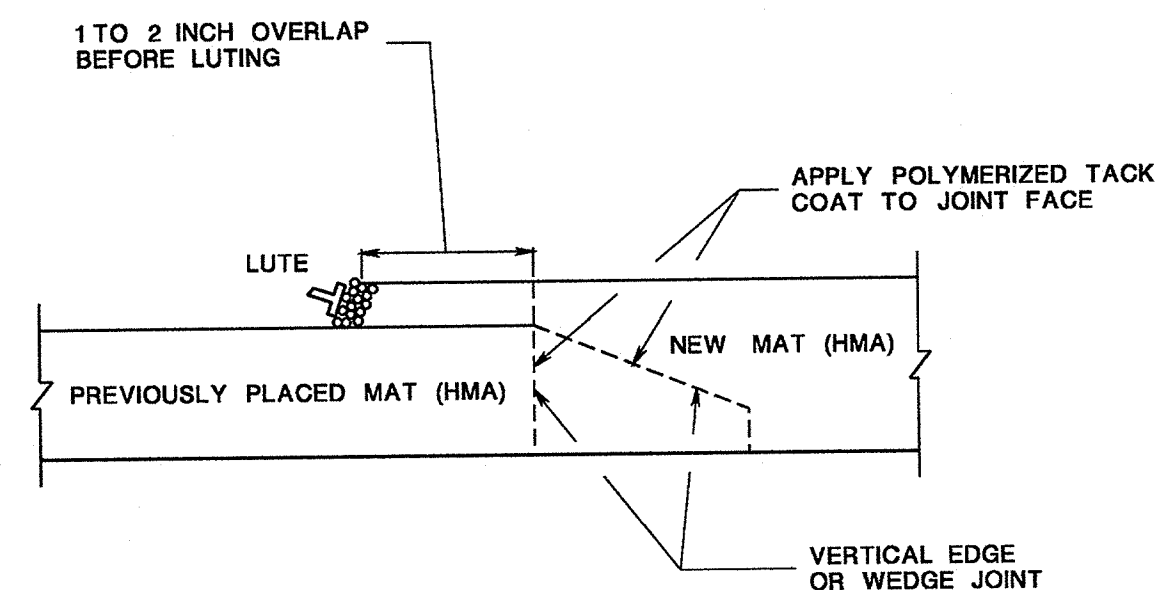
**OFFSET OF JOINTS**  
(NOTE 2)

CD-401-2.2



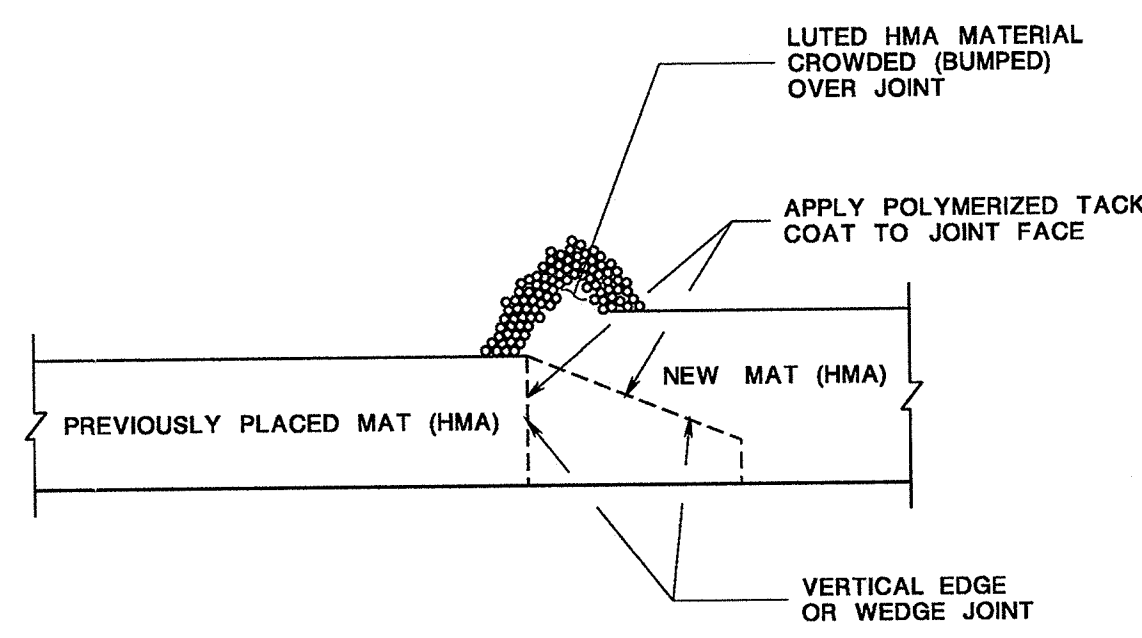
**ROLLER PLACEMENT FOR COMPACTING ALONG THE UNCONFINED VERTICAL EDGE**  
(NOTE 6)

CD-401-2.5



**OVERLAPPED HMA BEFORE LUTING**  
(NOTES 4 & 5)

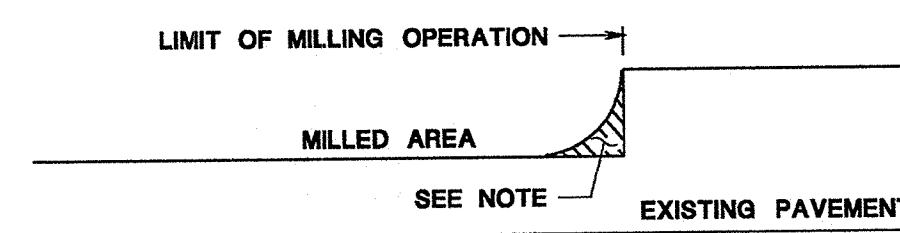
**HMA PAVEMENT**



**HMA AFTER LUTING**  
(NOTE 4)

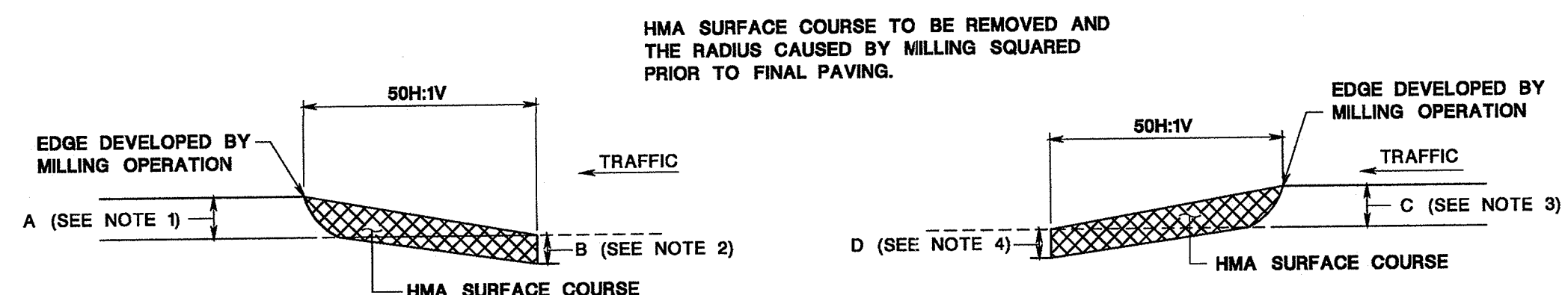
**NOTES:**

1. WHEN HMA LIFT THICKNESS IS GREATER THEN 2 1/4 INCHES AND WHEN TRAFFIC IS TO BE MAINTAINED, CONSTRUCT A WEDGE JOINT.
2. ENSURE THAT THE JOINT IN THE HMA SURFACE COURSE IS OFFSET FROM THE LANE LINES BY 6 INCHES. IN THE CENTERLINE OF A ROADWAY, ENSURE THAT THE JOINT FALLS BETWEEN THE DOUBLE YELLOW TRAFFIC STRIPE.
3. ENSURE THE LUTE OPERATOR MANUALLY BUMPS THE EDGE TO OBTAIN A TRUE VERTICAL AND DENSE UNCONFINED EDGE.
4. ENSURE THAT THE OVERLAPPED HMA MATERIAL AT THE JOINT IS TIGHTLY CROWDED (BUMPED) OVER THE JOINT ONTO THE NEWLY PLACED LANE LEAVING A SMALL MOUND OF MIX HUMPED UP FOR THE ROLLERS TO COMPACT.
5. FOR THE WEDGE JOINT, ENSURE THAT COARSE AGGREGATE PARTICLES ARE KEPT AWAY FROM THE POINT WHERE THE WEDGE MEETS THE SURFACE OF THE PREVIOUSLY PLACED LANE.
6. TO PREVENT LATERAL DISPLACEMENT OF THE UNCONFINED EDGE, ENSURE THAT THE EDGE OF THE ROLLER WHEEL EXTENDS OVER THE FREE EDGE OF THE HMA MAT BY AT LEAST 6 INCHES.



**NOTE:**  
REMOVE THE HMA MATERIAL LEFT BY THE DRUM RADIUS AT THE LIMITS OF THE MILLING OPERATION. ENSURE THAT THE FACE IS CLEAN AND VERTICAL BY SAWCUTTING OR TRANSVERSE MILLING. THIS END TREATMENT IS NOT APPLICABLE TO TEMPORARY LIMITS OF MILLING (I.E. END OF WORKDAY). IT IS APPLICABLE TO ALL AREAS WHERE THE COMPLETED MILLING OPERATION MATCHES ANY EXISTING PAVEMENT INCLUDING BRIDGES.

**END TREATMENT FOR MILLING OPERATIONS**

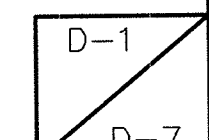


**MILLING TRANSITIONS**

CD-401-1.1

**NOTES:**

1. USE HMA SURFACE COURSE IN THE MILLING TRANSITION WHEN LEADING EDGE DEVELOPED BY MILLING OPERATION IS EQUAL TO OR GREATER THAN 1 INCH. NONE REQUIRED FOR EDGE LESS THAN 1 INCH.
2. ENSURE THAT THE THICKNESS OF THE HMA SURFACE COURSE IN THE MILLING TRANSITION IS NOT LESS THAN B. B IS EQUAL TO 2 INCHES OR A, WHICHEVER IS LESS.
3. USE HMA SURFACE COURSE IN THE MILLING TRANSITION WHEN TRAILING EDGE DEVELOPED BY MILLING OPERATION IS EQUAL TO OR GREATER THAN 1 1/2 INCHES. NONE REQUIRED FOR EDGE LESS THAN 1 1/2 INCHES.
4. ENSURE THAT THE THICKNESS OF THE HMA SURFACE COURSE IN THE MILLING TRANSITION IS NOT LESS THAN D. D IS EQUAL TO 2 INCHES OR C, WHICHEVER IS LESS



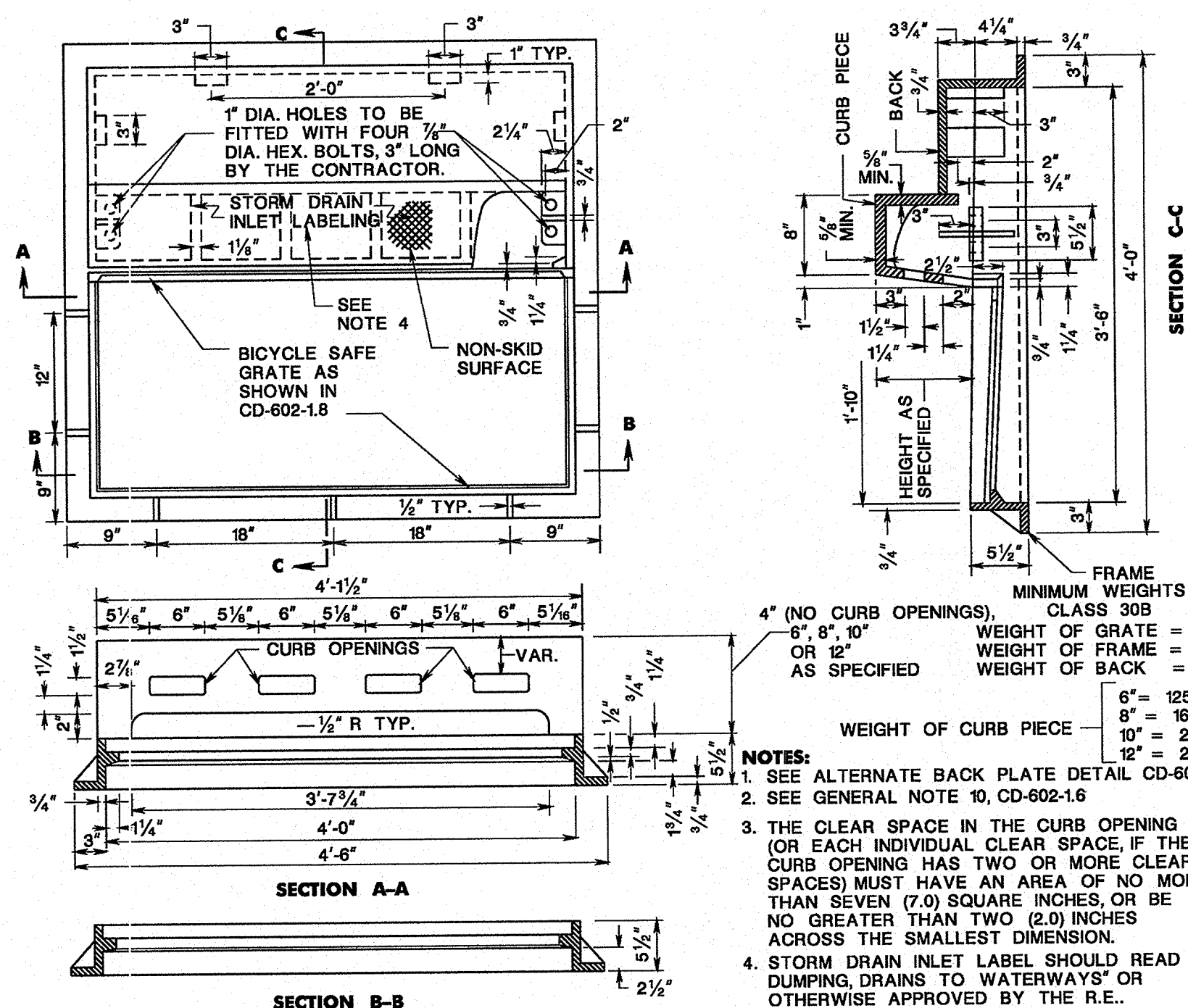
NO.	REVISION	DATE	BY	CHK. BY
<b>CONSTRUCTION DETAILS</b>				
<b>2015 COUNTY AID RESURFACING PROJECT</b>				
UNION COUNTY, NEW JERSEY				
DATE:	<i>[Signature]</i>		DATE:	2-13-15
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882			<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321	
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b>				
300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094 (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM Certificate of Authorization: 24 GA 28003800				
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.
				DWG. NO. 2000X015
				SHEET. NO. 32 OF 50

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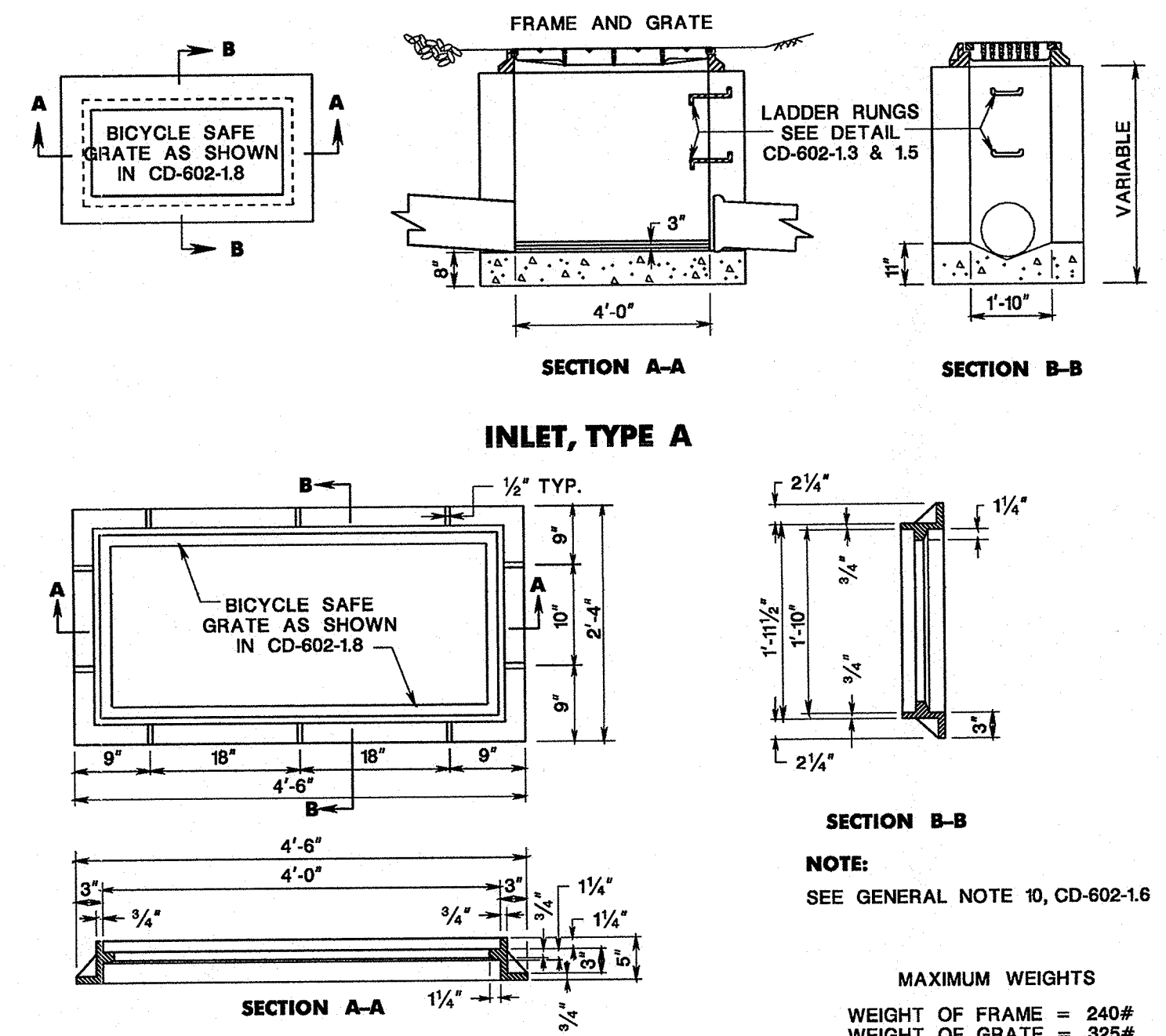


**MINIMUM WEIGHTS**  
 CLASS 30B  
 WEIGHT OF GRATE = 325#  
 WEIGHT OF FRAME = 312#  
 WEIGHT OF BACK = 120#

**WEIGHT OF CURB PIECE**  
 6" = 125#  
 8" = 167#  
 10" = 209#  
 12" = 251#

**NOTES:**  
 1. SEE ALTERNATE BACK PLATE DETAIL CD-602-2.5  
 2. SEE GENERAL NOTE 10, CD-602-1.6  
 3. THE CLEAR SPACE IN THE CURB OPENING (OR EACH INDIVIDUAL CLEAR SPACE, IF THE CURB OPENING HAS TWO OR MORE CLEAR SPACES) MUST HAVE AN AREA OF NO MORE THAN SEVEN (7.0) SQUARE INCHES, OR BE NO GREATER THAN TWO (2.0) INCHES ACROSS THE SMALLEST DIMENSION.  
 4. STORM DRAIN INLET LABEL SHOULD READ "NO DUMPING, DRAINS TO WATERWAYS" OR OTHERWISE APPROVED BY THE R.E. FISH LOGOS SHALL ALSO BE INCLUDED ON BOTH SIDES OF LABEL.

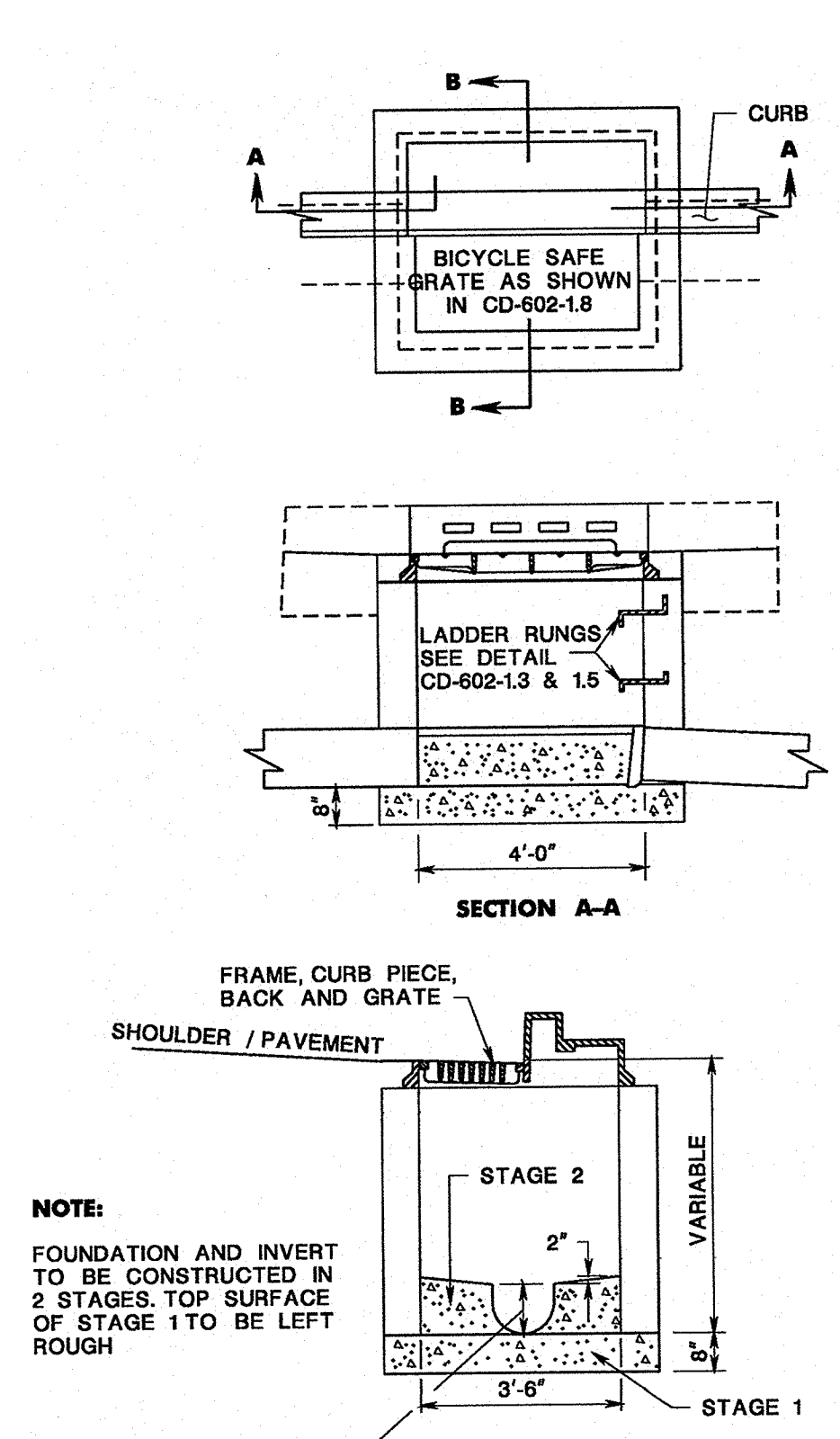
**FRAME-BACK-CURB PIECE FOR INLET TYPE B AND TYPE C** CD-602-2.1



**MAXIMUM WEIGHTS**  
 WEIGHT OF FRAME = 240#  
 WEIGHT OF GRATE = 325#

**NOTE:**  
 SEE GENERAL NOTE 10, CD-602-1.6

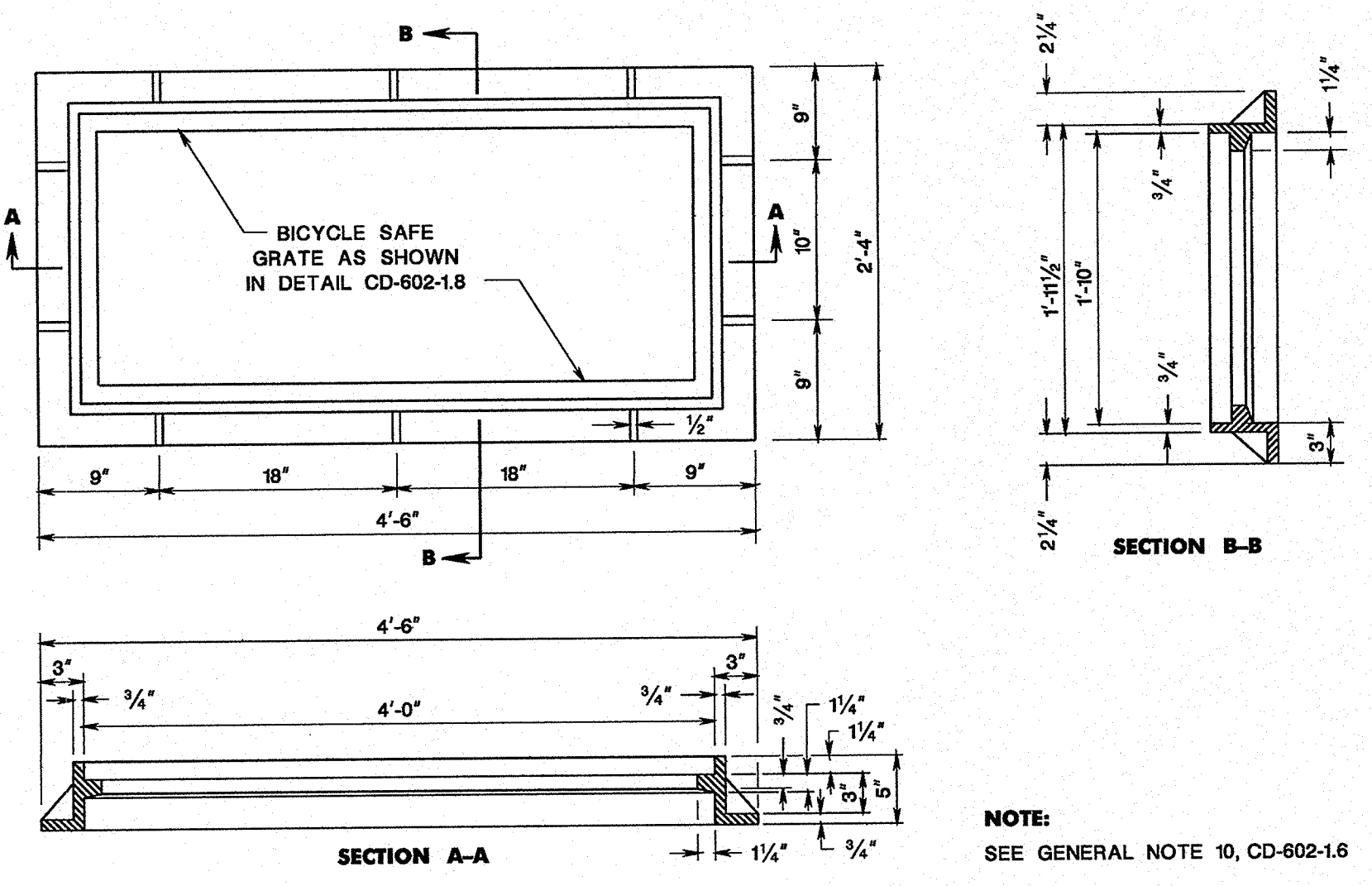
**FRAME FOR INLET, TYPE A**



**NOTE:**  
 FOUNDATION AND INVERT TO BE CONSTRUCTED IN 2 STAGES. TOP SURFACE OF STAGE 1 TO BE LEFT ROUGH

**DEPTH OF INVERT TO BE 0.80 OF DIAMETER OF THE MAIN PIPE THROUGH THE INLET.**

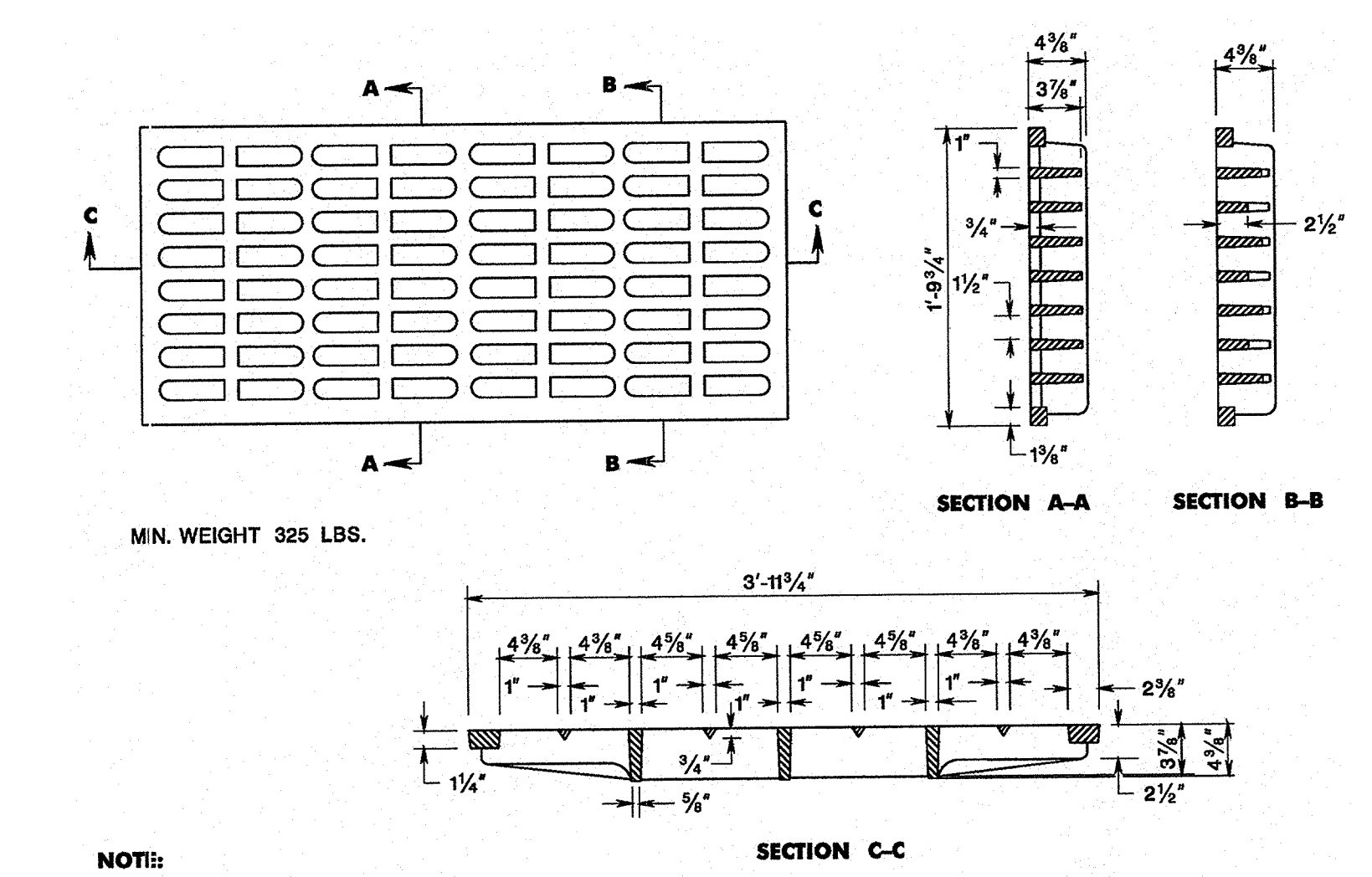
**INLET, TYPE B MODIFIED**



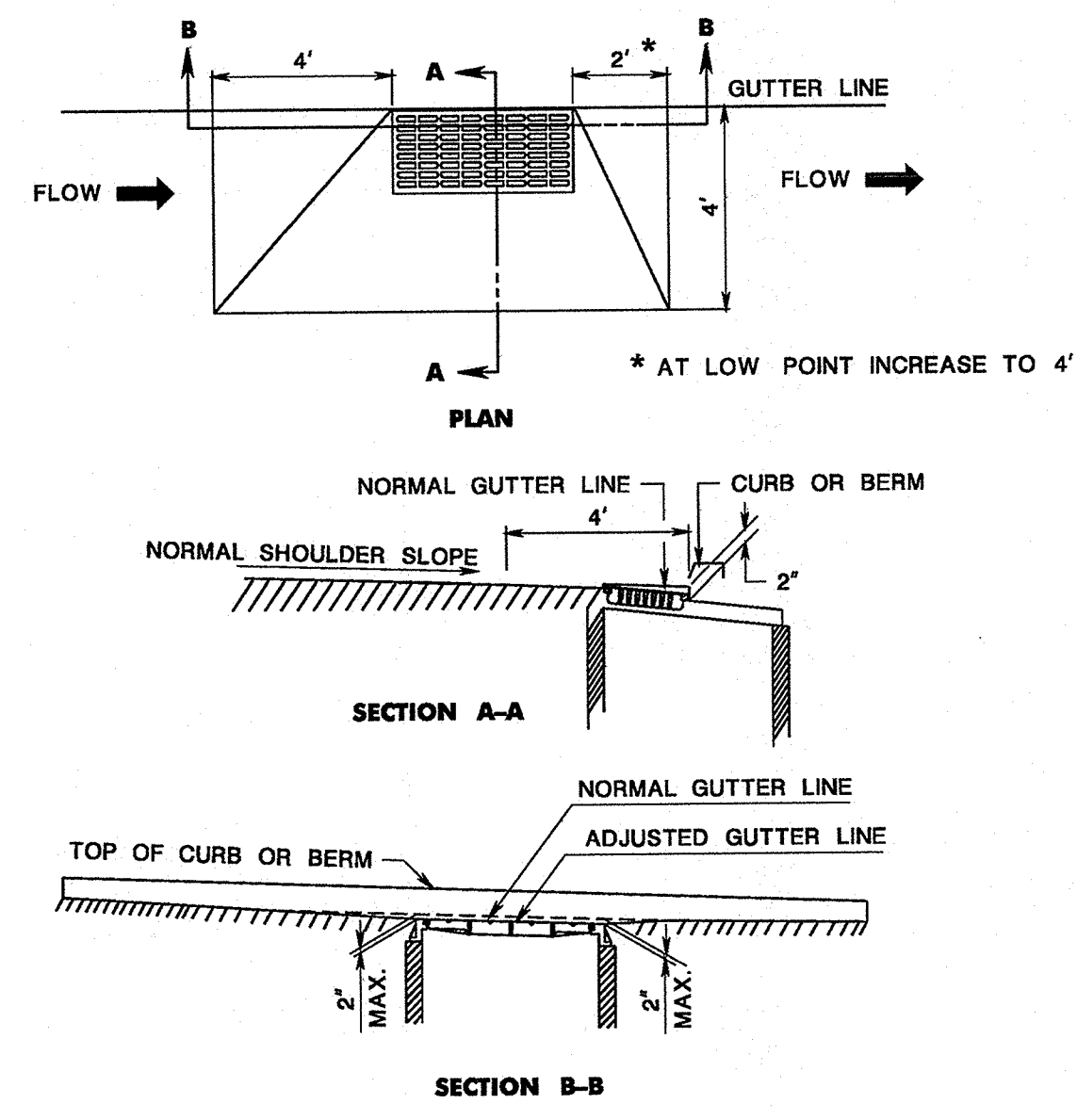
**INLET, TYPE B WITH C.I. CURB PIECE-BACK-FRAME AND GRATE**

**NOTE:**  
 LADDER RUNGS FACING TRAFFIC 12" C TO C

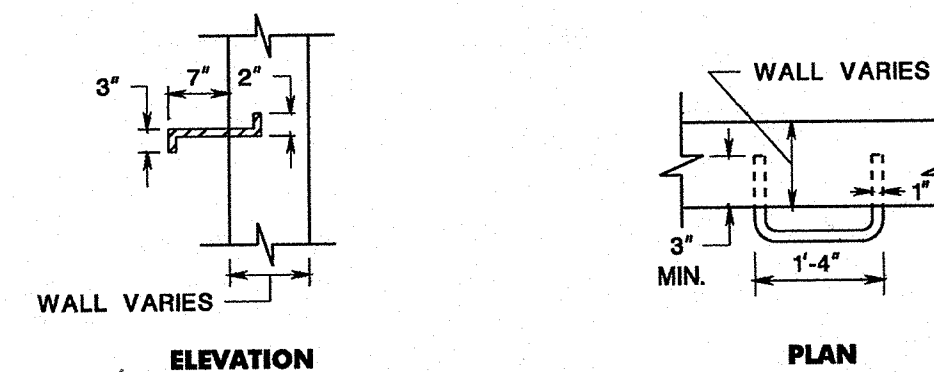
**FRAME TO BE USED FOR INLET, TYPE B MODIFIED**



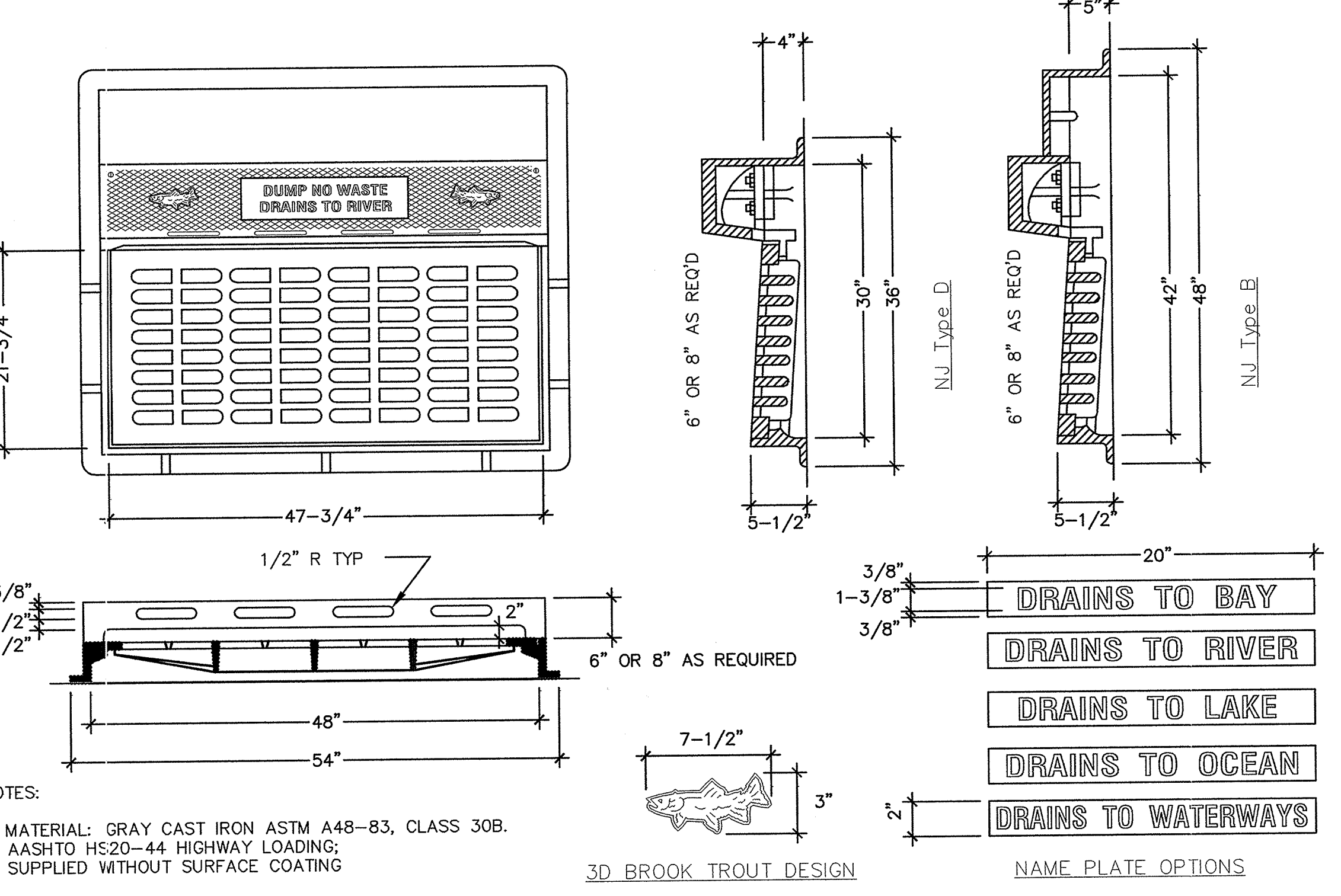
**BICYCLE SAFE GRATE (CAST IRON)**



**METHOD OF DEPRESSING INLETS AT SHOULDERS**



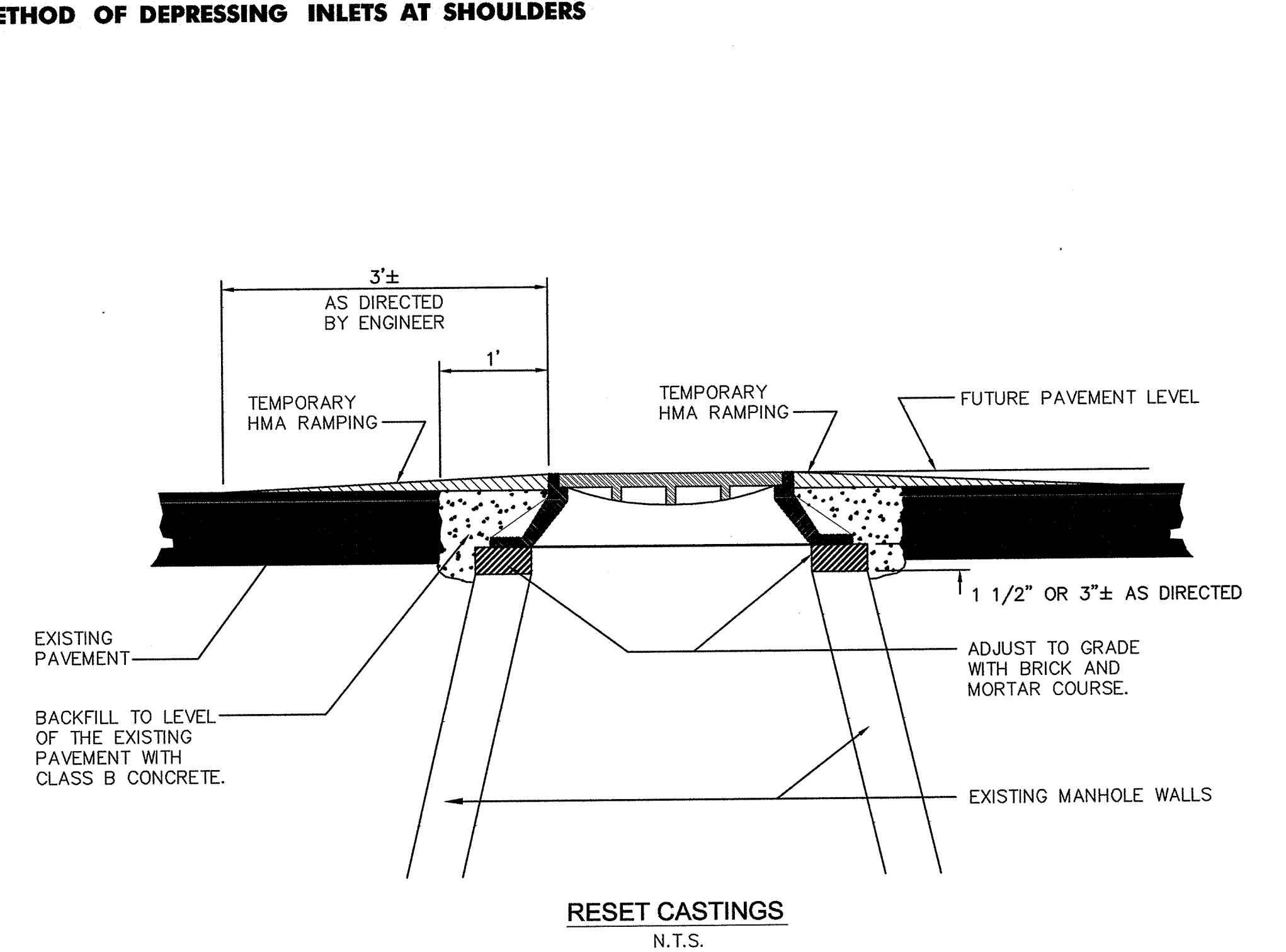
**LADDER RUNG DETAIL**



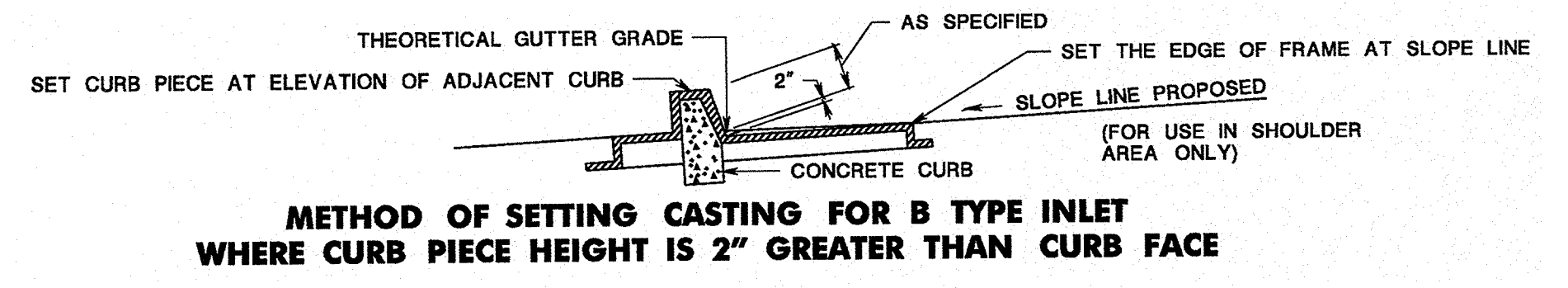
**CURB INLET WITH BICYCLE SAFE GRATE AND TYPE 'N-ECO' CURB PIECE'**

**NOTES:**  
 1. MATERIAL: GRAY CAST IRON ASTM A48-83, CLASS 30B.  
 2. AASHTO HS20-44 HIGHWAY LOADING;  
 3. SUPPLIED WITHOUT SURFACE COATING

**3D BROOK TROUT DESIGN**  
**NAME PLATE OPTIONS**



**RESET CASTINGS**  
 N.T.S.



**METHOD OF SETTING CASTING FOR B TYPE INLET WHERE CURB PIECE HEIGHT IS 2" GREATER THAN CURB FACE**

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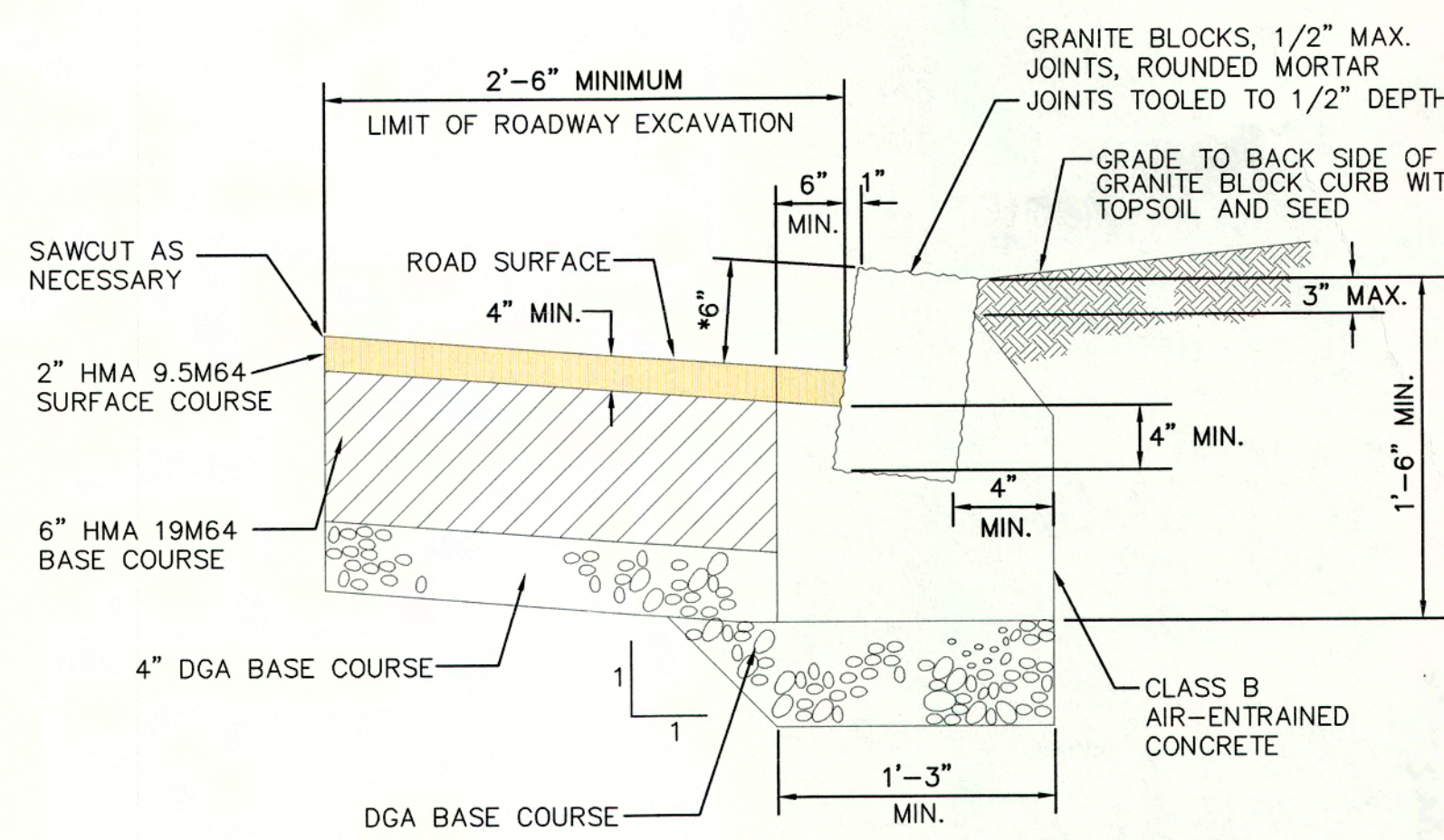
PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

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DWG. NO.	2000X015	SHEET. NO.		33 OF 50
DWS FILE PATH/NAME: F:\Transportation_Bridge\Union County\2000X015 - 2015 Road Resurfacing\Drawings\2000X015-01.dwg				



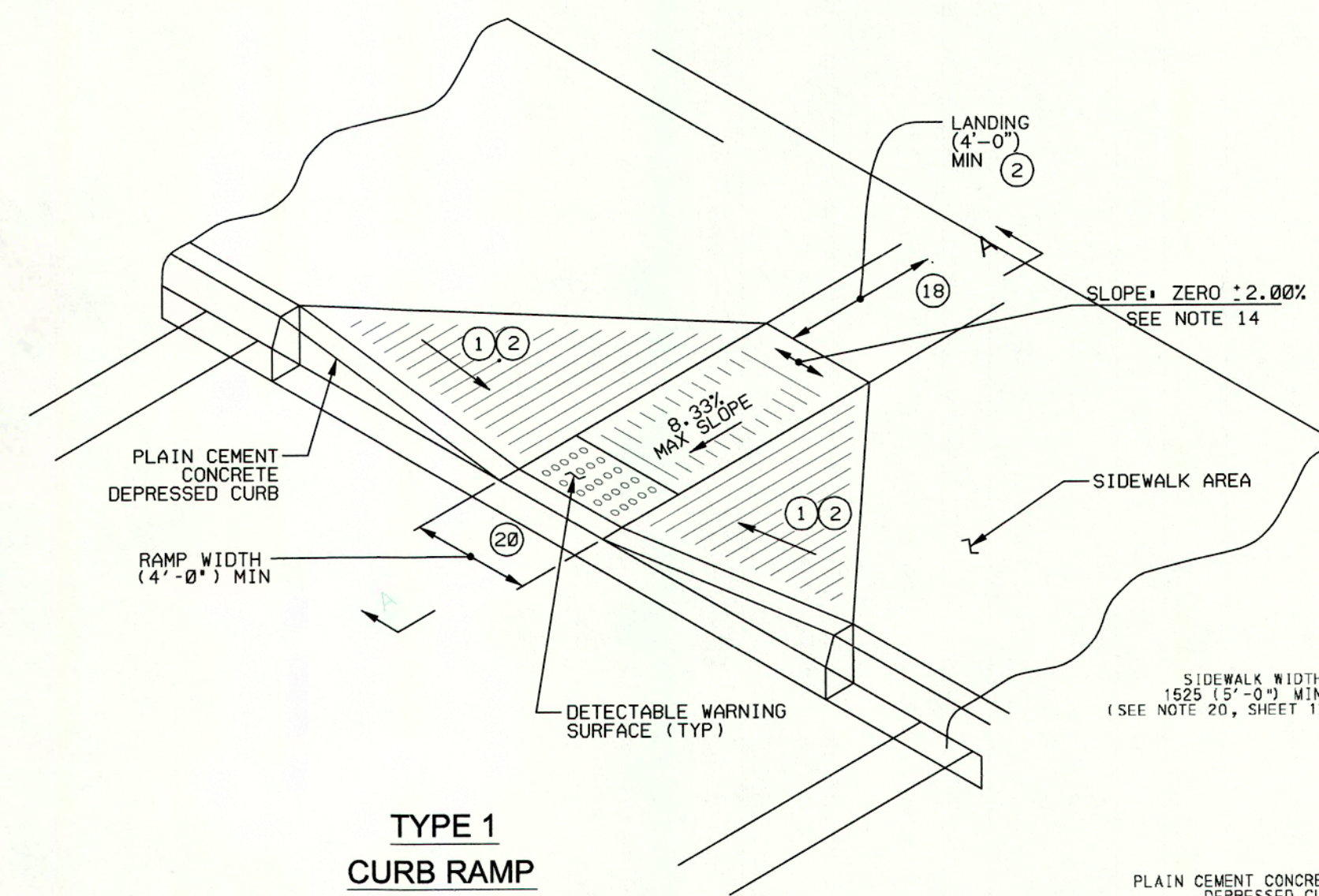




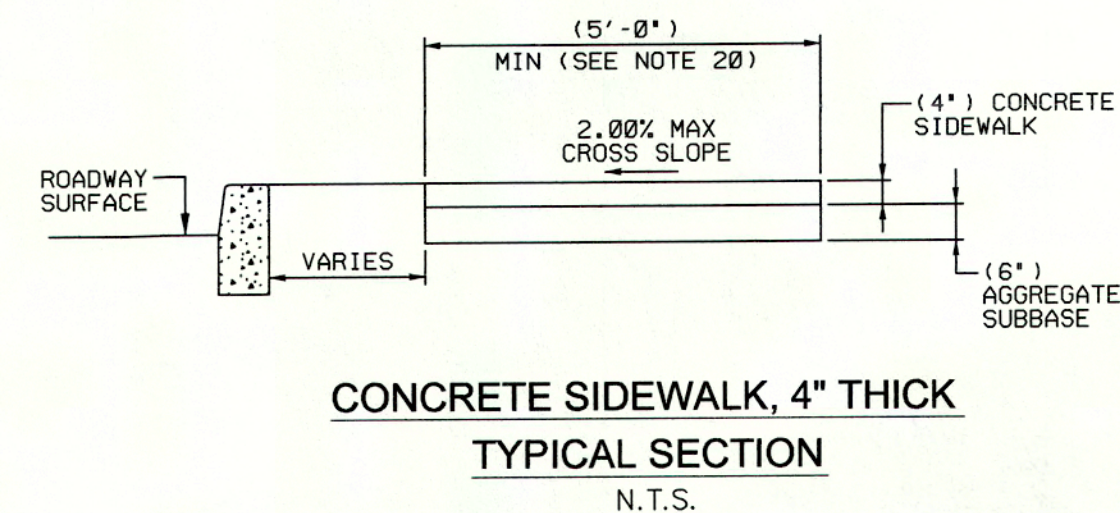


GRANITE BLOCK DIMENSIONS  
HEIGHT: MIN. 10" TO 12" MAX.  
THICKNESS + WIDTH: MIN. 5" TO 7" MAX.

**TYPICAL ROADWAY EXCAVATION AT GRANITE BLOCK CURB**  
N.T.S.

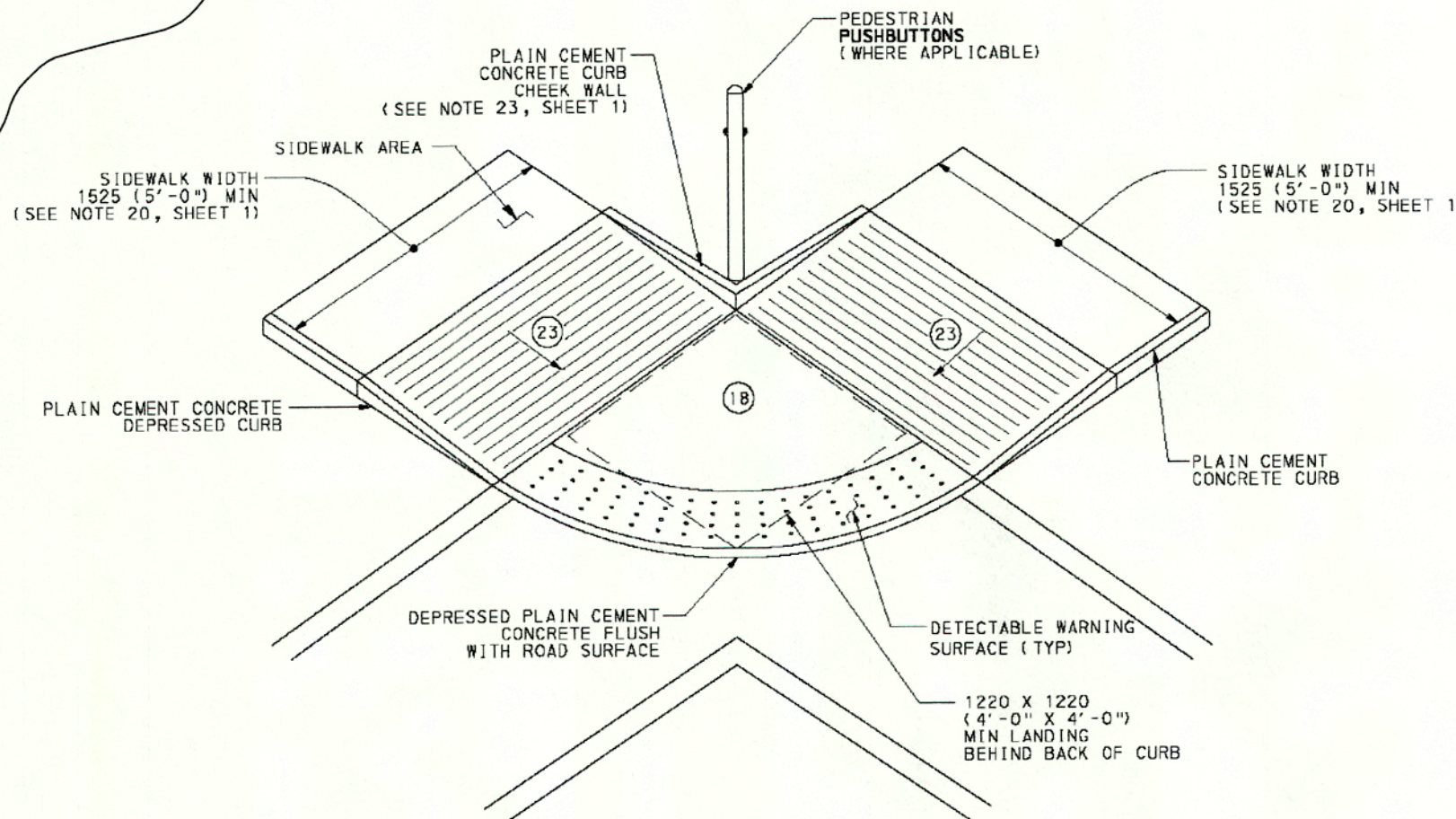


**TYPE 1 CURB RAMP**  
N.T.S.



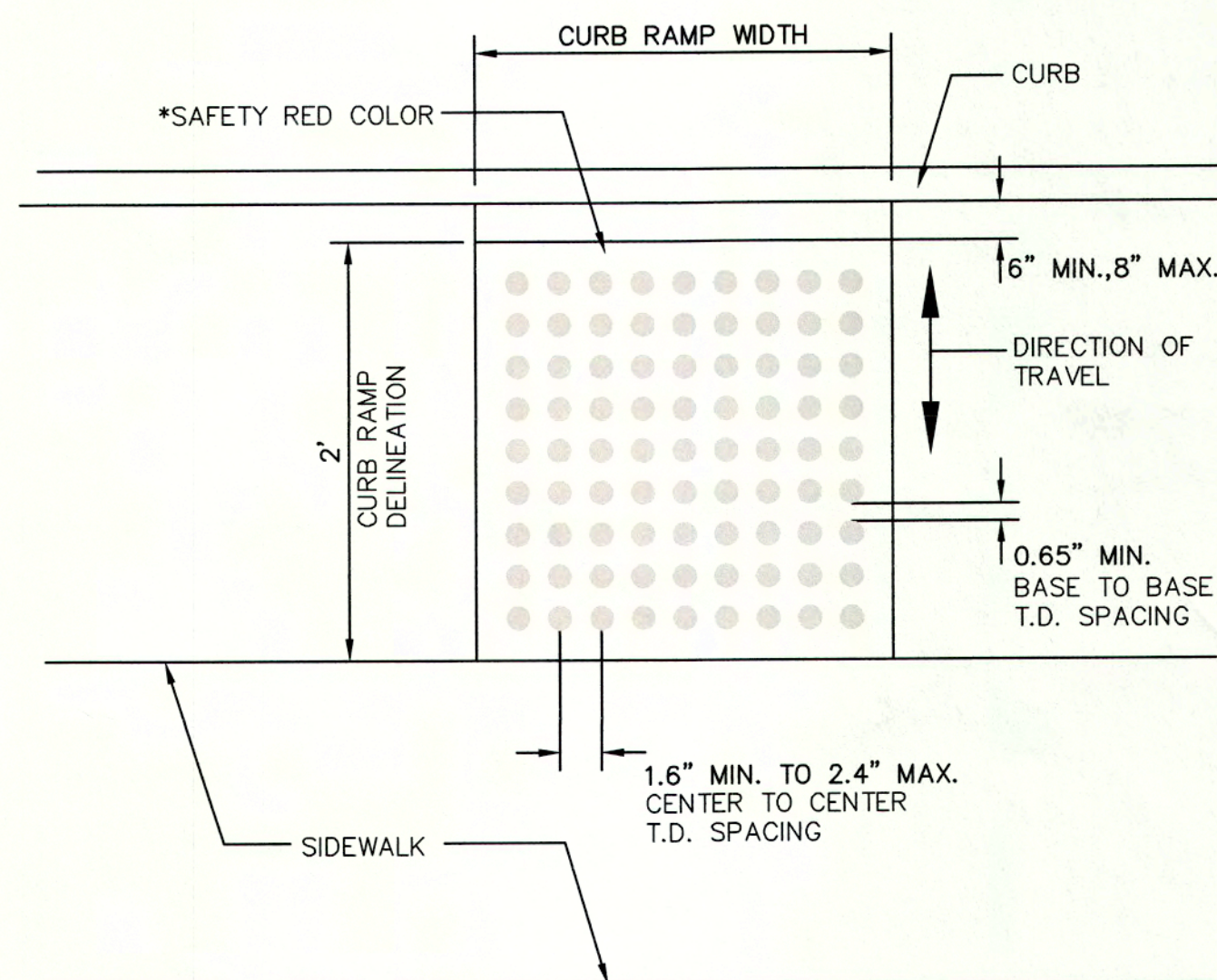
**CONCRETE SIDEWALK, 4\"/>**

- N.T.S.
- 1) SIDE FLARES 10.00% MAX SLOPE.
  - 2) IF THE LANDING IS INDICATED TO BE LESS THAN 1220 (4'-0"), CONSTRUCT SIDE FLARES 8.33% MAX SLOPE.
  - 18) CURB RAMP REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SEE DETAILS FOR LOCATIONS AND DIMENSIONS.
  - 20) CONSTRUCT DEPRESSED CURB SLOPE TO MATCH ROADWAY PROFILE AND HAVE A FLUSH CONNECTION. DO NOT EXCEED 3.00% PER 305 (1'-0") CROSS SLOPE RATE OF CHANGE WHEN TRANSITIONING FROM LEVEL LANDING TO ROADWAY PROFILE. A TECHNICALLY INFEASIBLE FORM IS REQUIRED WHEN RAMP CROSS SLOPE EXCEEDS 2.00%.

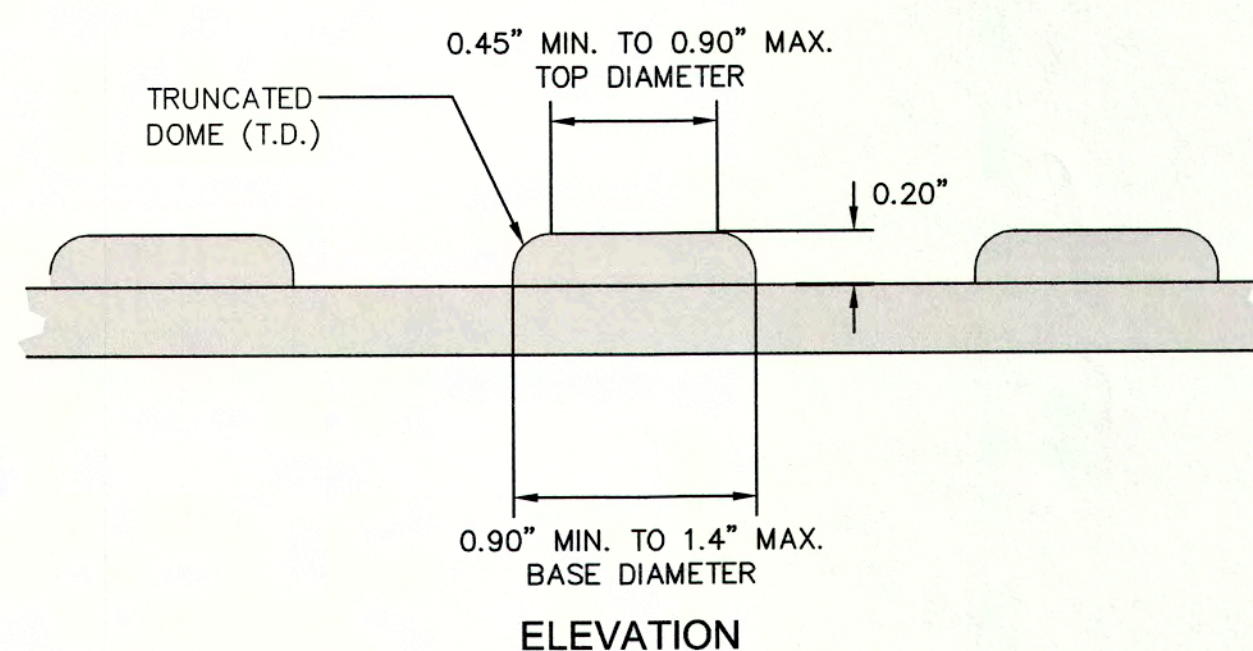


NOTE: DO NOT INSTALL GRATINGS, ACCESS COVERS AND OTHER APPURTENANCES ON THE BLENDED TRANSITION SURFACE WITHIN THE PEDESTRIAN ACCESS ROUTE. EXISTING UTILITY COVERS IN THE PATH OF TRAVEL ARE ACCEPTABLE IF THE TOP SURFACE IS FLUSH (LESS THAN 6 (1/4)" IN ELEVATION DIFFERENCE), FIRM, STABLE AND SLIP RESISTANT. INLET GRATINGS MUST HAVE OPENINGS NO GREATER THAN 13 (1/2)" IN DIRECTION OF TRAVEL.

**BLENDED TRANSITION**



**PLAN VIEW**



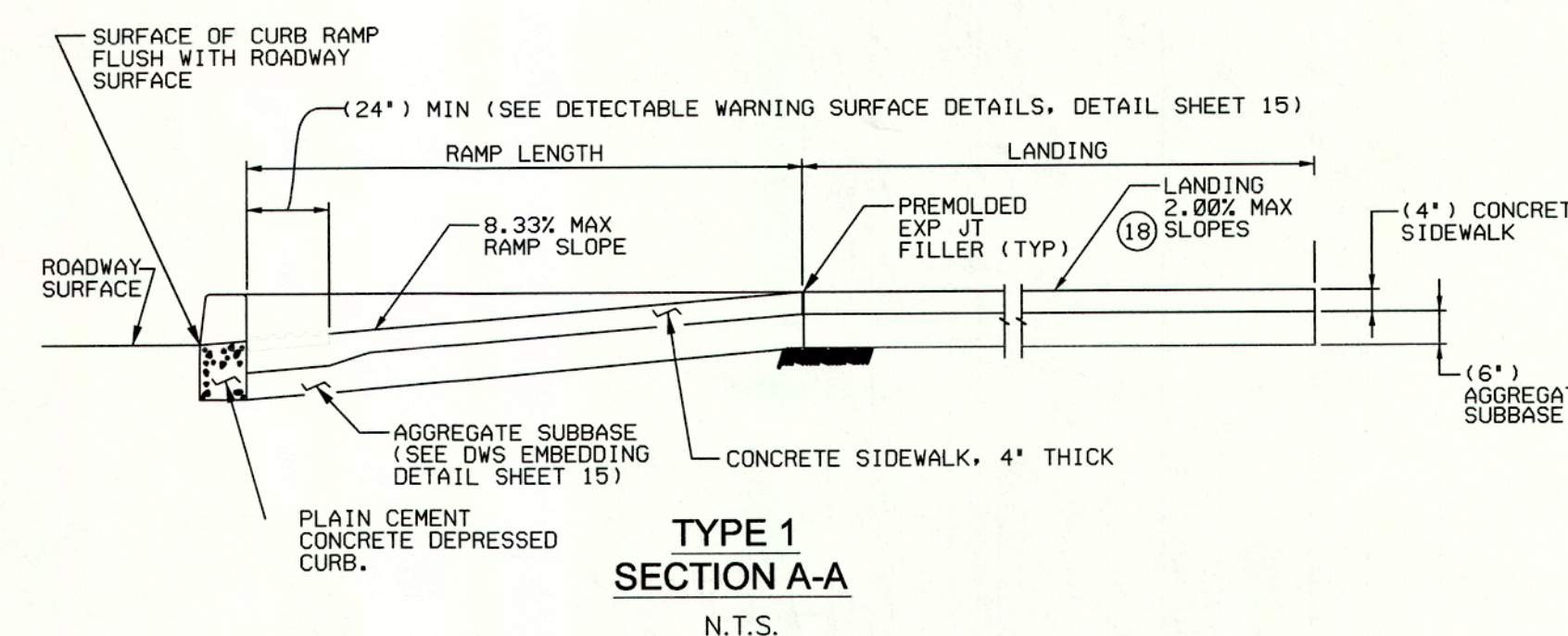
**ELEVATION**

\* MATERIAL TO BE USED AT ALL HANDICAP RAMPS AND OTHER AREAS REQUIRING DETECTABLE WARNING SURFACES SHALL BE:

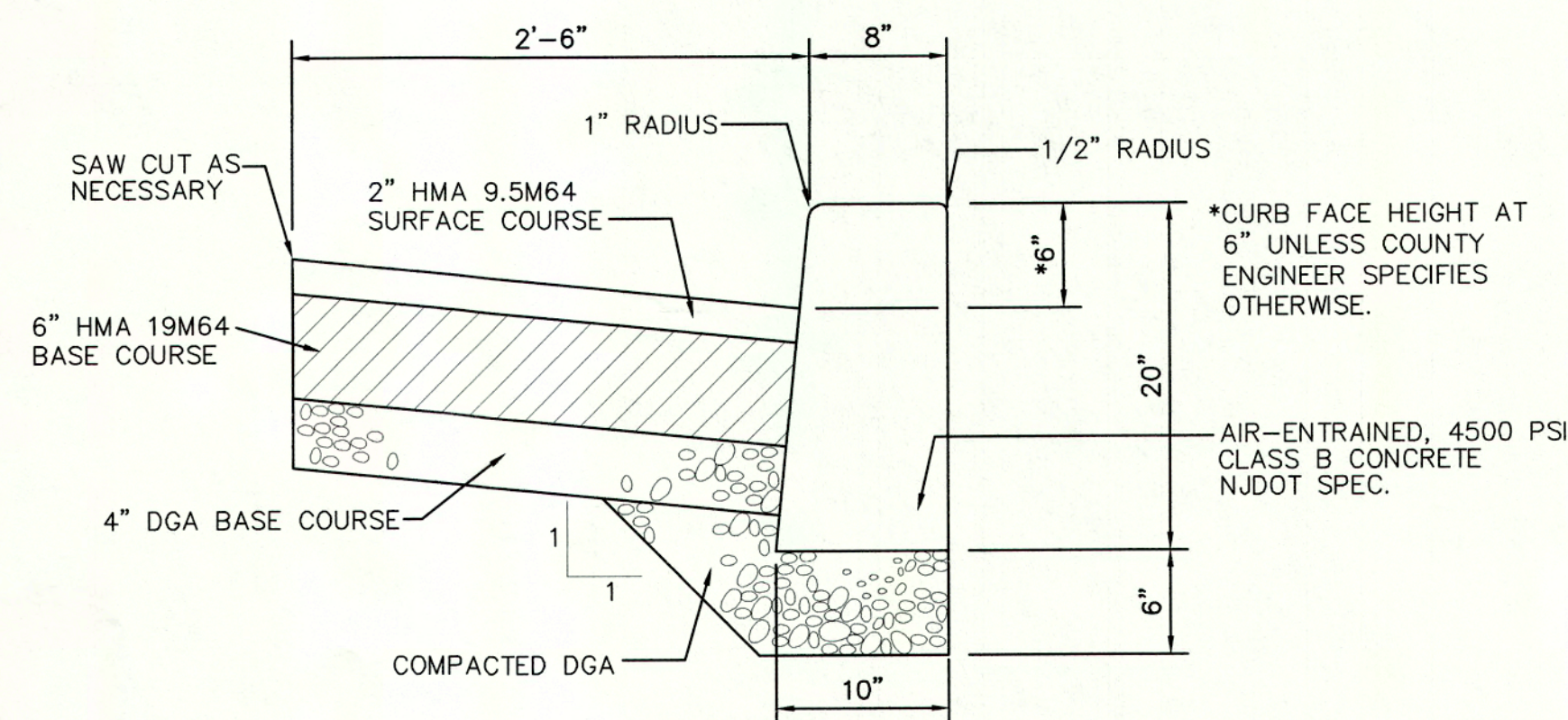
- DETECTABLE WARNING SURFACES - CAST IN PLACE TILES; OR
- DETECTABLE WARNING SURFACES - RETROFIT SURFACE MOUNT TILES.

AS MANUFACTURED BY "ADA SOLUTIONS, INC." OR APPROVED EQUAL.

**DETECTABLE WARNING SURFACE**  
N.T.S.



**TYPE 1 SECTION A-A**  
N.T.S.



NOTE: EXPANSION JOINTS TO BE SET AT 10' INCREMENTS.

**TYPICAL ROADWAY EXCAVATION AT CURBS**  
N.T.S.

**NOTES**

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. US CUSTOMARY UNITS IN ( ) PARENTHESIS.
2. PROVIDE EXPANSION JOINT MATERIAL (1/2") THICK WHERE CURB RAMP ADJOINS ANY RIGID PAVEMENT, SIDEWALK OR STRUCTURE WITH THE TOP OF JOINT FILLER FLUSH WITH ADJACENT CONCRETE SURFACE.
3. CONSTRUCT CURB RAMPS WITH A MINIMUM (4'-0" X 4'-0") CLEAR SPACE BEYOND THE CURB FACE, WITHIN THE WIDTH OF THE CROSSWALK AND WHOLLY OUTSIDE THE PARALLEL VEHICLE TRAVEL LANE. SEE DETAIL SHEET 6 FOR CROSSWALK DETAILS.
4. SEAL JOINTS WITH AN APPROVED SEALING MATERIAL.
5. PROVIDE SLIP RESISTANT TEXTURE ON CURB RAMP BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP. EXTEND TEXTURE THE FULL WIDTH AND LENGTH OF THE CURB RAMP INCLUDING FLARED SIDE RAMPS.
6. MODIFY CONSTRUCTION DETAILS TO ADAPT DIMENSIONS TO EXISTING CURB HEIGHTS WHERE THE CURB IS LESS THAN OR GREATER THAN THE STANDARD (6") HEIGHT.
7. CURB RAMP AND SIDE FLARE LENGTHS ARE VARIABLE AND BASED ON CURB HEIGHT AND THE SIDEWALK SLOPE.
8. TO AVOID CHASING GRADE INDEFINITELY WHEN TRAVERSING THE HEIGHT OF CURB, RAMP LENGTH NOT TO EXCEED (15'-0"). ADJUST RAMP SLOPE AS NEEDED TO PROVIDE ACCESS TO THE MAXIMUM EXTENT FEASIBLE.
9. NON-WALK AREA IS AN OBSTRUCTED OR GRASS/NON-PAVED AREA ADJACENT TO THE PEDESTRIAN ACCESS ROUTE THAT IS NOT USED BY THE PEDESTRIAN FOR ACCESS.
10. DETAILS DEPICT PEDESTRIAN CROSSWALK STRIPING TO ILLUSTRATE THE RECOMMENDED PLACEMENT OF PEDESTRIAN RAMPS.
11. PROVIDE ACCESS TO EXISTING PEDESTRIAN PUSHBUTTONS TO THE MAXIMUM EXTENT FEASIBLE.
12. ALIGN DETECTABLE WARNING SURFACE TRUNCATED DOMES ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF THE RAMP AND PERPENDICULAR TO CURB.
13. PROVIDE DETECTABLE WARNING SURFACES (DWS) 610 (24") MINIMUM (IN THE DIRECTION OF PEDESTRIAN TRAVEL) ACROSS FULL WIDTH OF RAMP AT THE GRADE BREAK NEAR STREET EDGE. PROVIDE DWS THAT CONTRAST VISUALLY WITH ADJACENT WALKWAY SURFACES. EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT FOR THE FULL WIDTH OF RAMP.
14. FOR NEW CONSTRUCTION, DO NOT EXCEED 2.00% CROSS SLOPE ON THE CURB RAMP OR PEDESTRIAN ACCESSIBLE ROUTE.
15. FOR NEW CONSTRUCTION AND ALTERATIONS, CONSTRUCT CURB RAMP AND FLARE SLOPES WITH THE FLATTEST SLOPE POSSIBLE. THE SLOPES INDICATED IN THE DETAILS SHOW THE MAX SLOPE ALLOWABLE. SLOPES THAT EXCEED THOSE INDICATED IN THE DETAILS, OR CONTRACT DOCUMENTS AS APPLICABLE, WILL NOT BE ACCEPTED AND WILL BE RECONSTRUCTED.
16. CONSTRUCT SIDEWALKS AT A LONGITUDINAL SLOPE NOT TO EXCEED 5.00%. FOR ROADWAY PROFILE SLOPES THAT EXCEED 5.00%, CONSTRUCT PARALLEL SIDEWALKS ADJACENT TO ROADWAY AT A LONGITUDINAL SLOPE NOT TO EXCEED ROADWAY PROFILE SLOPE.
17. THE CHANGE IN GRADE AT THE BOTTOM OF THE CURB RAMP AND ADJOINING ROAD SURFACE IS NOT TO EXCEED AN ALGEBRAIC DIFFERENCE OF 11.00%. THE COUNTER SLOPE OF THE GUTTER OR ROAD AT THE FOOT OF A CURB RAMP, LANDING OR BLENDED TRANSITION IS NOT TO EXCEED 5.00%.
18. THE CONSTRUCTION STANDARDS DEPICTED ARE MOST APPROPRIATE FOR NEW CONSTRUCTION. ALL CONSTRUCTION MUST MEET THE STANDARDS CONTAINED HEREIN UNLESS OTHERWISE NOTED OR DIRECTED.
19. ALL SLOPES ARE MEASURED WITH RESPECT TO A LEVEL PLANE. THEREFORE, THE LENGTH OF RAMP IS NOT SOLELY DEPENDANT ON THE HEIGHT OF CURB. (FOR EXAMPLE, A 150 (6") CURB DOES NOT NECESSARILY MEAN A RAMP LENGTH OF 1830 (6'-0") FOR A 12x1 (1:12) SLOPE.
20. SIDEWALK WIDTH MAY BE REDUCED TO 1220 (4'-0"), WHEN PASSING AREAS 1525 X 1525 (5'-0" X 5'-0") ARE PROVIDED EVERY 61 METERS (200').
21. THE TRAVEL LANE IS DEFINED BY THE OUTSIDE EDGE OF THE WHITE PAVEMENT MARKING LINE. IF A WHITE PAVEMENT MARKING LINE DOES NOT EXIST, THE TRAVEL LANE IS DEFINED BY THE CONTRACT DOCUMENTS.
22. CONSTRUCT DEPRESSED CURB FOR CURB RAMPS FLUSH TO ADJACENT ROADWAY. GRADE EDGE OF ROAD ELEVATIONS AT THE FLOW LINE TO ENSURE POSITIVE DRAINAGE AND PREVENT PONDING. FOR LEVEL LANDINGS BEHIND DEPRESSED CURB, ADJUST SLOPES TO PROVIDE POSITIVE DRAINAGE.
23. CHEEK WALLS ARE PERMITTED WHEN ADJACENT TO NON-WALK AREAS OR ELEVATION DIFFERENCES CANNOT BE ACCOMMODATED BY FLARES OR GRADING. GRADE GRASS AREAS OR OTHER NON-WALK AREAS AT 3:1 (1:3) MAXIMUM. DO NOT INSTALL CHEEK WALLS THAT INTERSECT THE PEDESTRIAN ACCESS ROUTE.
24. CONSTRUCT TOP OF PLAIN CEMENT CONCRETE DEPRESSED CURB TO BE FLUSH WITH ADJACENT SURFACES (RAMPS, SIDEWALKS, FLARES).
25. FOR CURB RAMPS THAT LEAD TO A SINGLE CROSSWALK, THE RAMP (EXCLUDING FLARES) TO BE FULLY INSIDE OF MARKED CROSSWALK LINES. SEE SITE PLANS FOR LOCATIONS.
26. A 1220 (4'-0") MAXIMUM DIGITAL DISPLAY LEVEL WILL BE USED TO VERIFY THE SLOPES OF CURB RAMPS AND SIDEWALKS.

PERCENT SLOPE	EQUIVALENT SLOPE
10.00%	10:1 (1:10)
8.33%	12:1 (1:12)
7.14%	14:1 (1:14)
5.00%	20:1 (1:20)
2.00%	50:1 (1:50)
1.00%	100:1 (1:100)

**EQUIVALENT SLOPES**

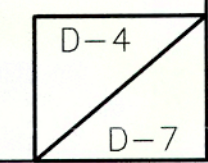
NOTE: EITHER ALL METRIC OR ALL ENGLISH VALUES MUST BE USED ON PLANS. METRIC AND ENGLISH VALUES SHOWN MAY NOT BE MIXED.

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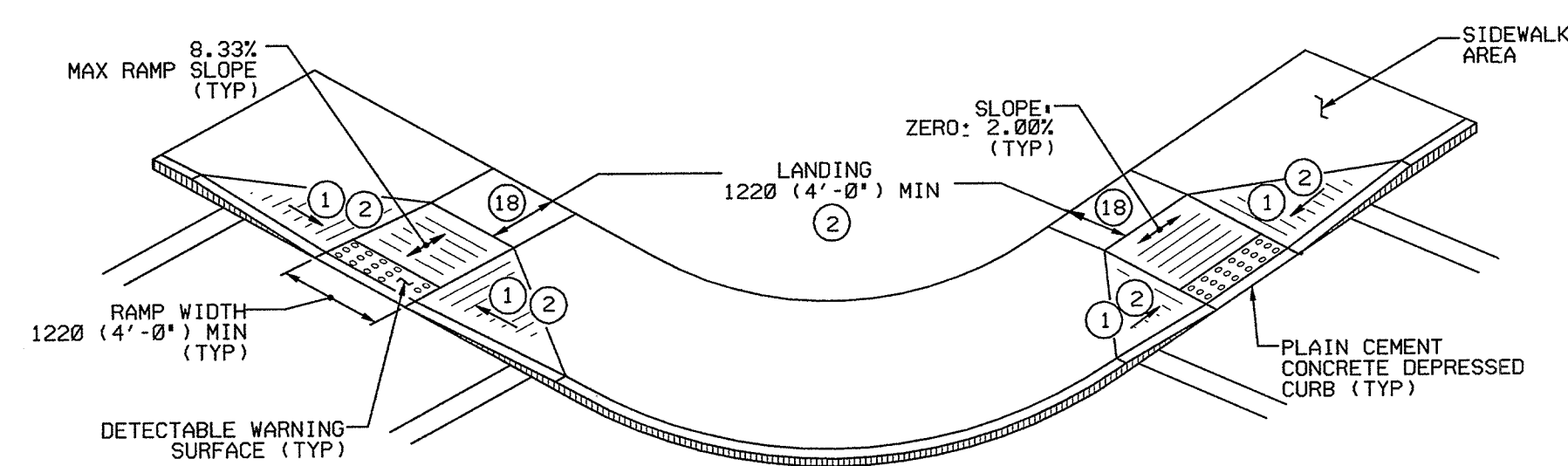
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DWG FILE PATH/NAME					SHEET. NO.
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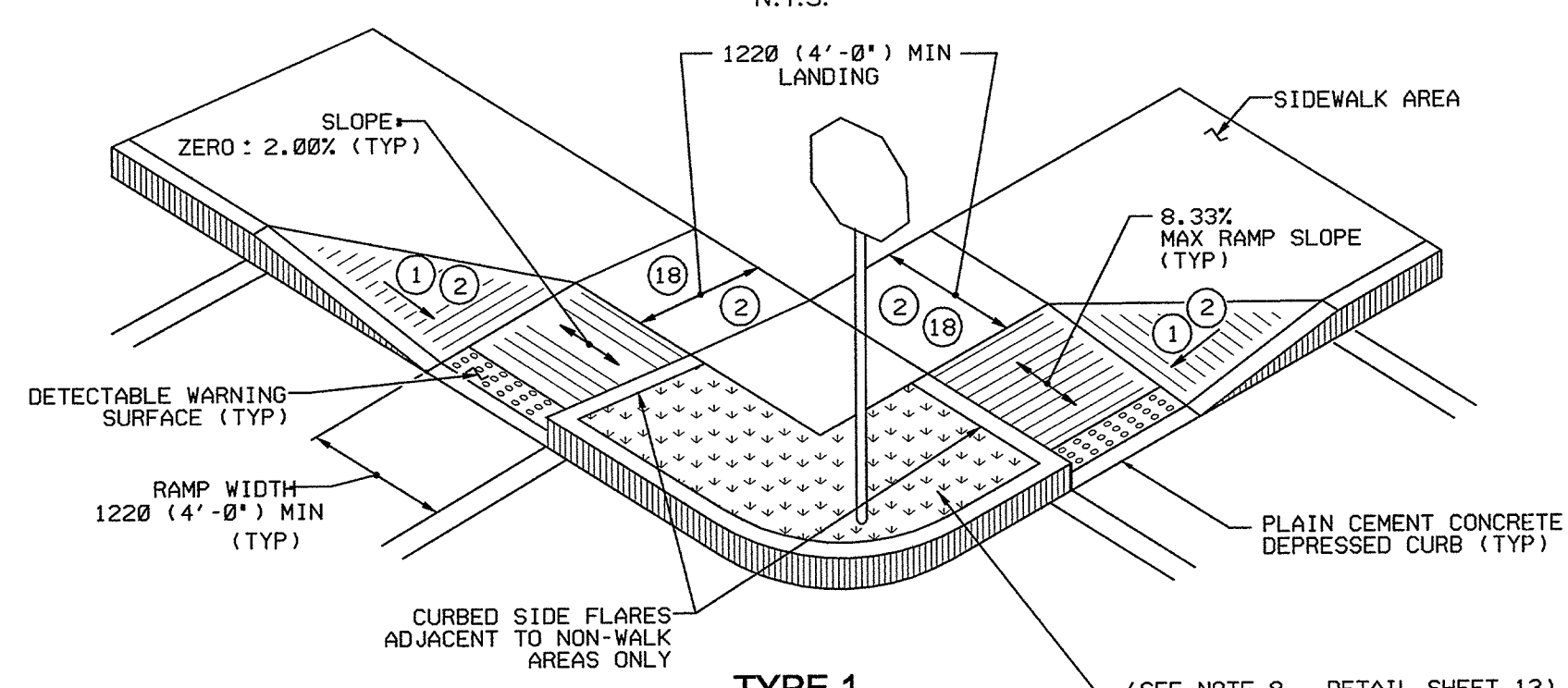




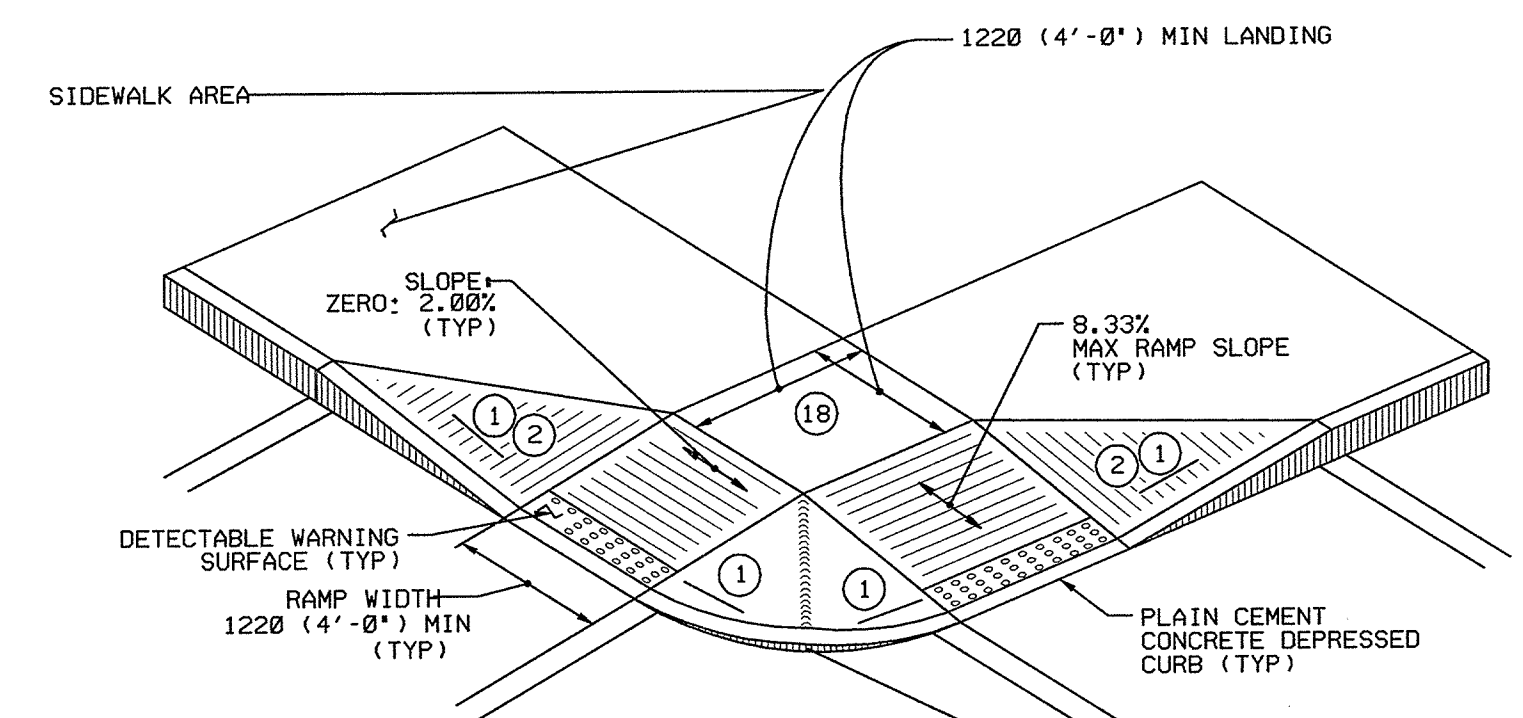


NOTE: IF SPACE IS LIMITED, IT MAY BE NECESSARY TO CURB THE SIDE FLARES OF THE TYPE 1 CURB RAMPS (SEE ALTERNATE INSTALLATION DETAIL BELOW). PEDESTRIAN TRAFFIC SHOULD NOT BE DIRECTED TO CROSS THE VERTICAL DROP.

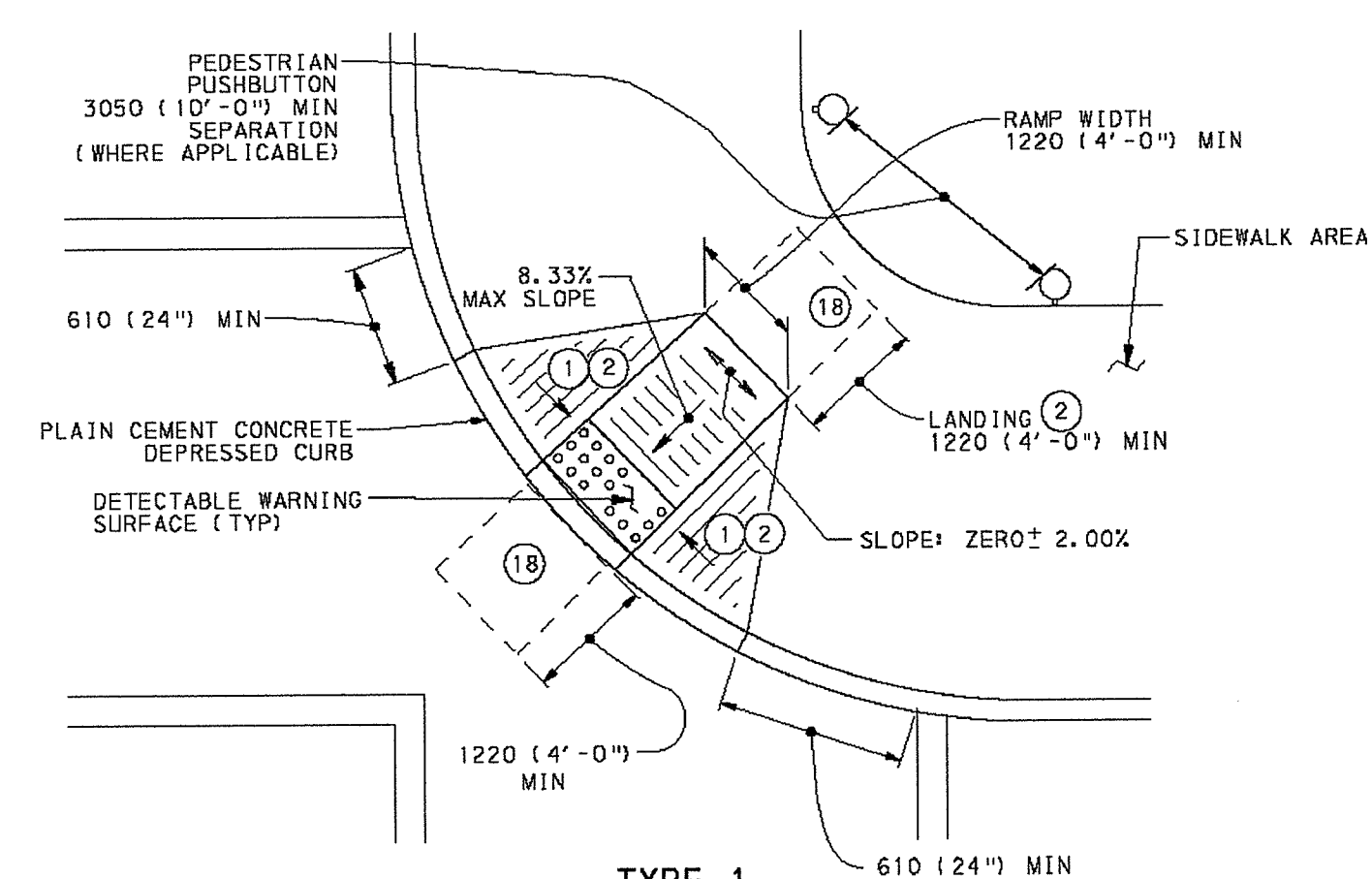
**TYPE 1  
DOUBLE CURB RAMPS  
(PREFERRED INSTALLATION)**  
N.T.S.



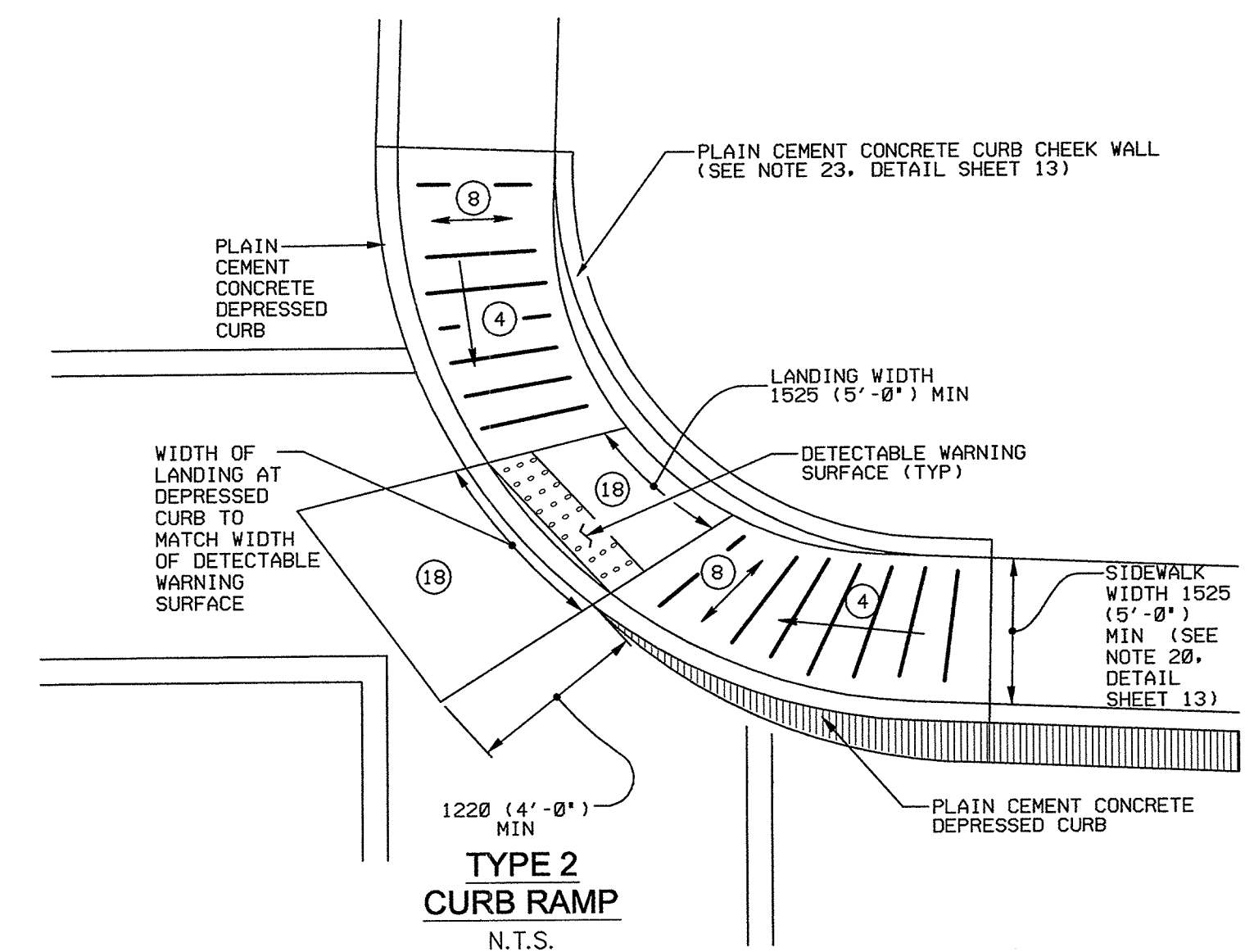
**TYPE 1  
DOUBLE CURB RAMPS  
(ALTERNATE INSTALLATION)**  
N.T.S.



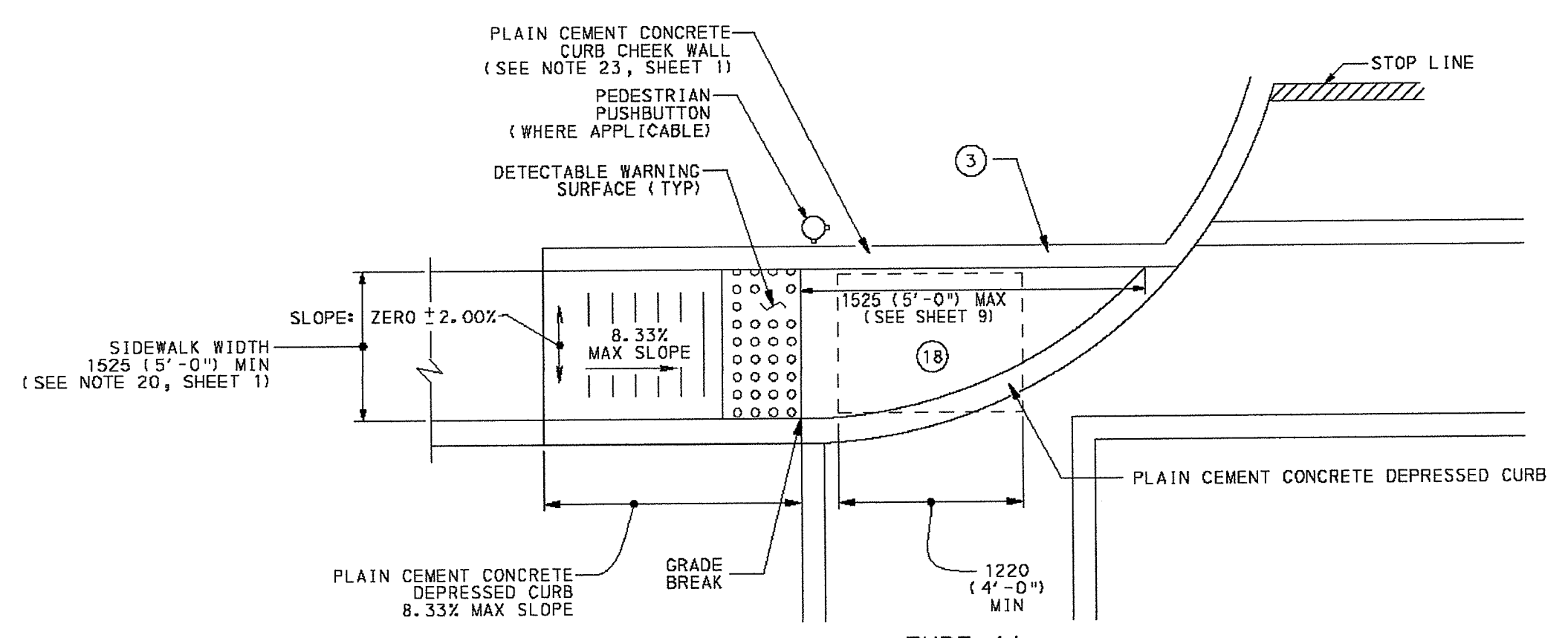
**TYPE 1 CURB RAMPS  
WITH SHARED LANDING**  
N.T.S.



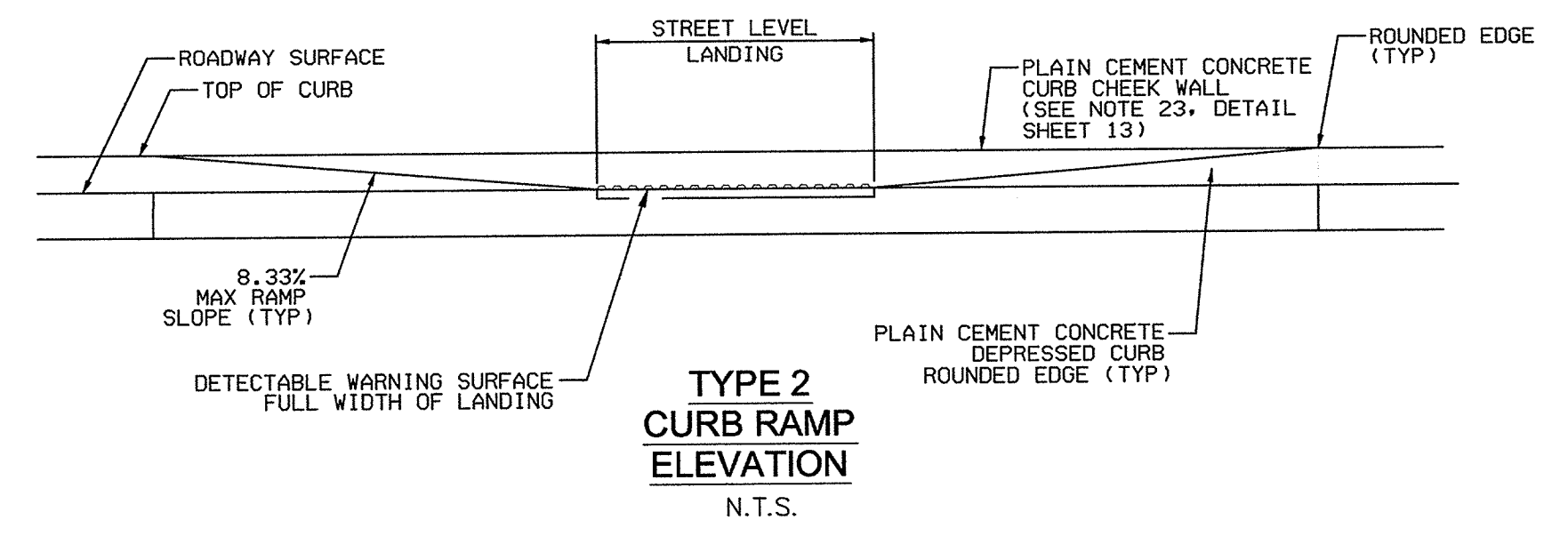
**TYPE 1  
CURB RAMP**



**TYPE 2  
CURB RAMP**  
N.T.S.



**TYPE 1A  
CURB RAMP**



**TYPE 2  
CURB RAMP  
ELEVATION**  
N.T.S.

- ① SIDE FLARES 10.00% MAX SLOPE
- ② IF THE LANDING IS INDICATED TO BE LESS THAN 1220 (4'-0"), CONSTRUCT SIDE FLARES 8.33% MAX SLOPE.
- ③ OPTIONAL ROLLED CONCRETE SURFACE OR REGRADE SLOPE CAN BE USED TO MEET THE ADJACENT SURFACES IN LIEU OF A RETURN CURB CHEEK WALL.
- ④ CURB RAMPS REQUIRE A 1220 (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SEE DETAILS FOR LOCATIONS AND DIMENSIONS.

D-5  
D-7

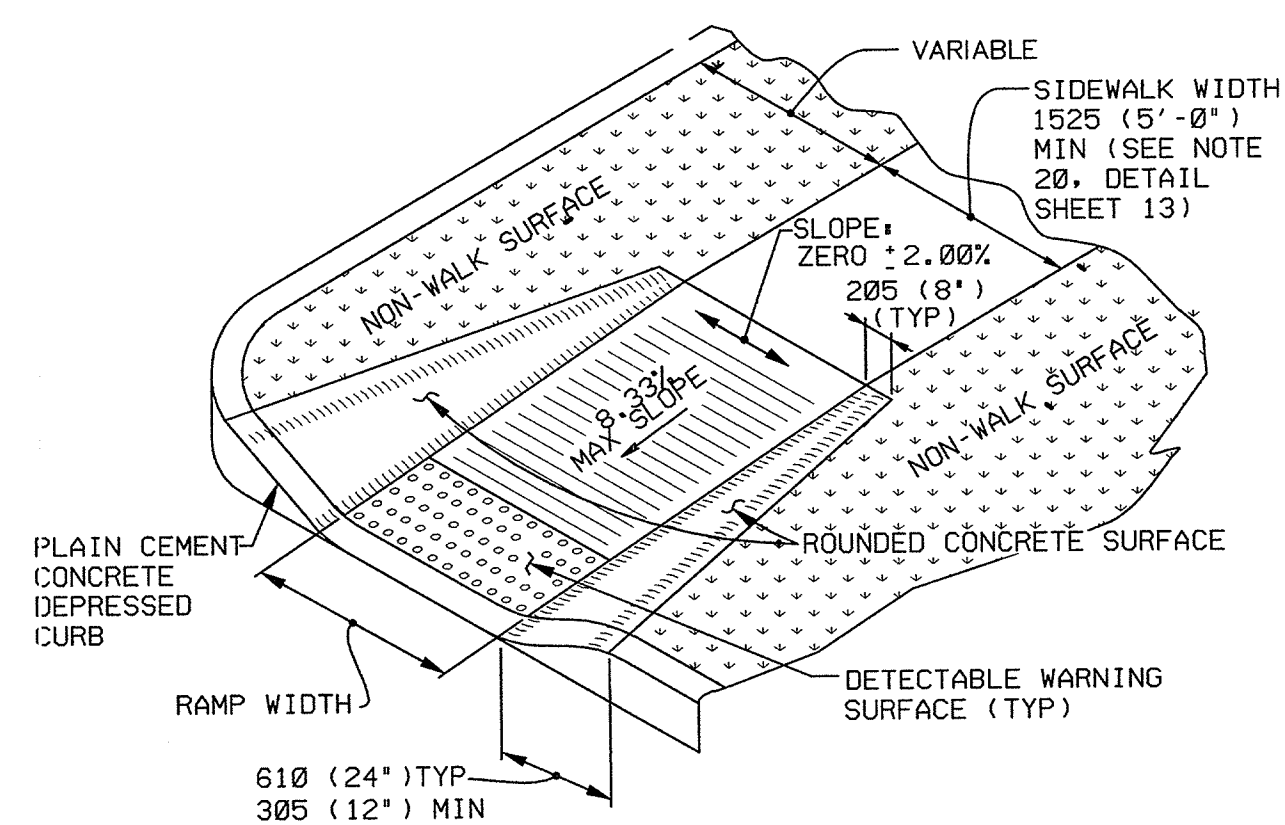
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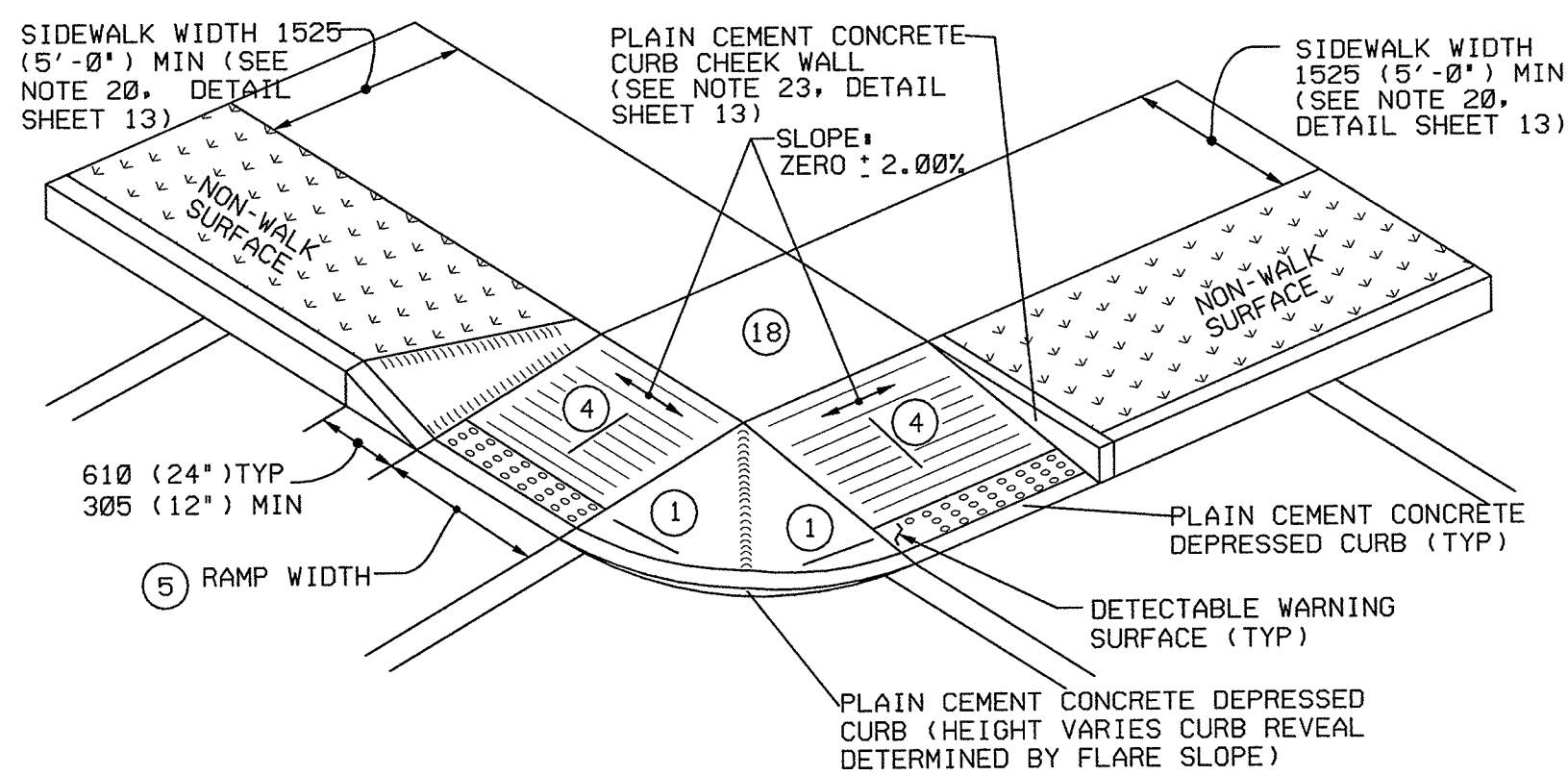
PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

NO.	REVISION	DATE	BY	CHK.	BY
<b>CONSTRUCTION DETAILS</b>					
<b>2015 COUNTY AID RESURFACING PROJECT</b>					
UNION COUNTY, NEW JERSEY					
DATE:	<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882		<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321		
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b>					
300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094 (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RV&A.COM Certificate of Authorization: 24 GA 28003900					
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY	DWG. NO.
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015
DWG. FILE PATH/NAME					SHEET. NO.
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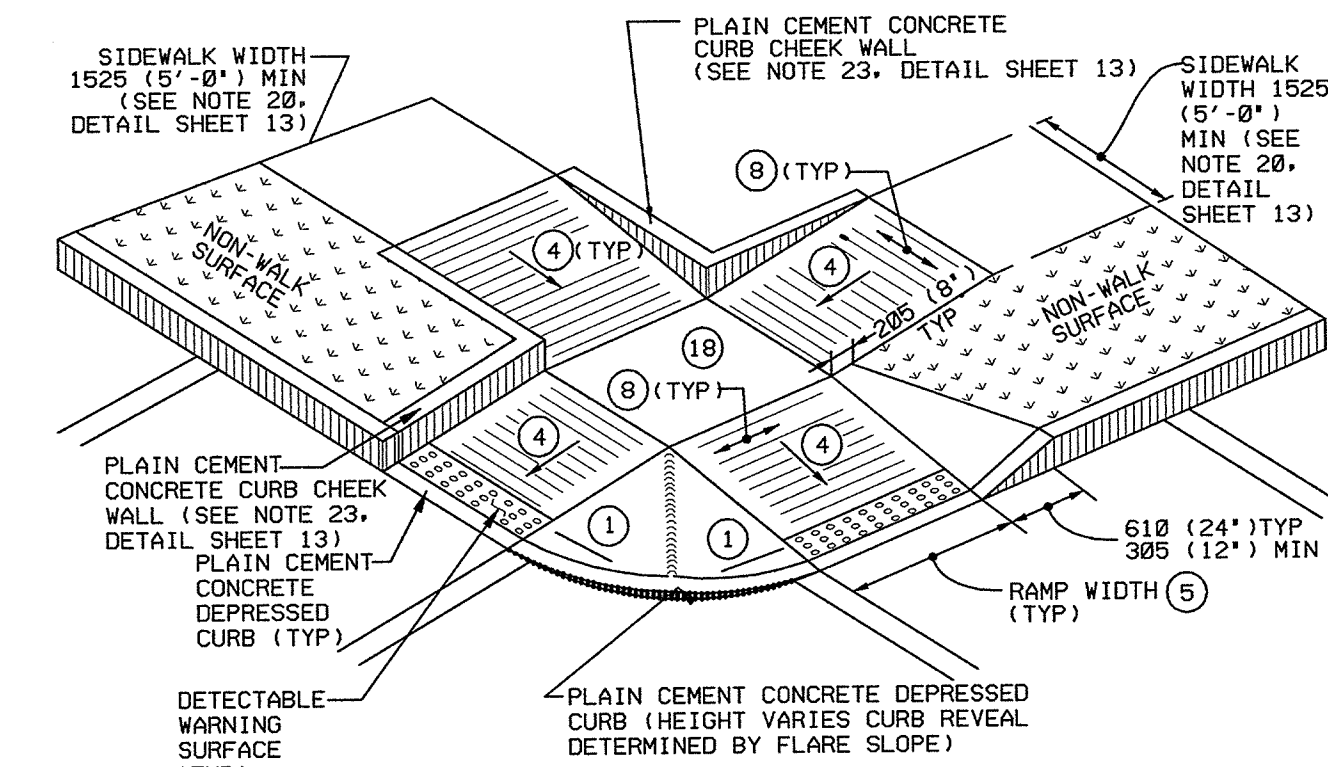




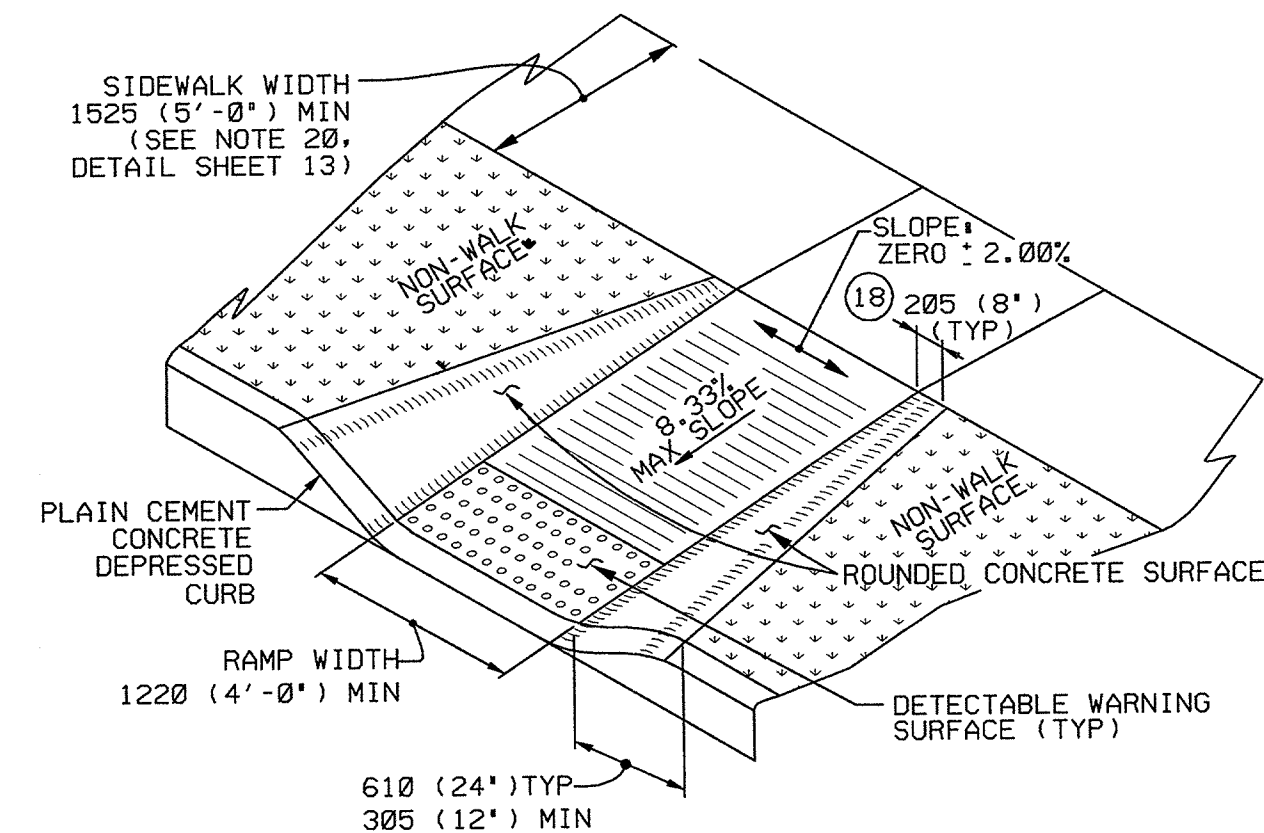
**ALTERNATE TYPE 4A CURB RAMP (PARALLEL)**  
N.T.S.



**TYPE 4/4A CURB RAMP WITH SHARED LANDING**  
N.T.S.

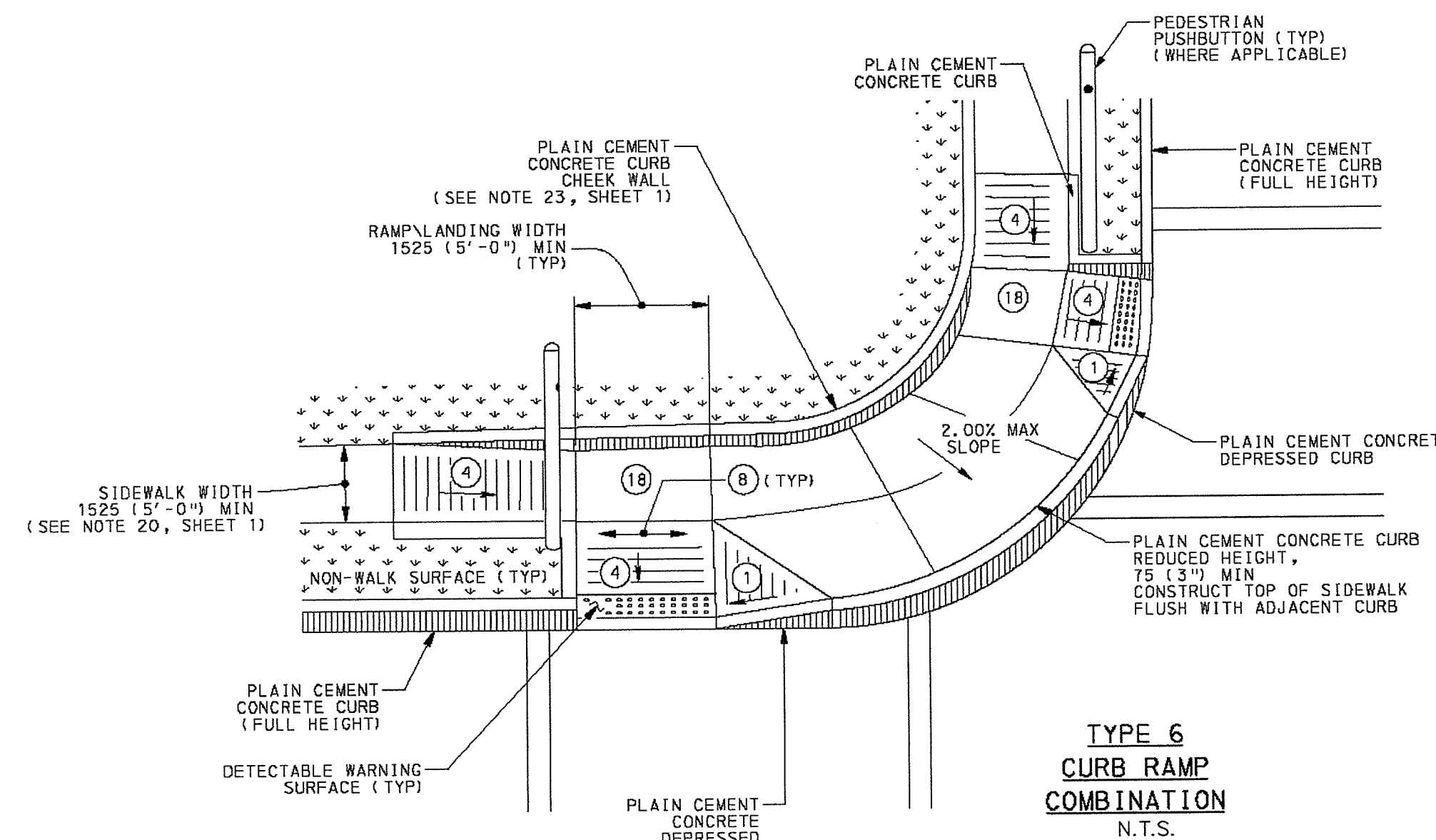


**TYPE 6 CURB RAMP WITH SHARED LANDING**  
N.T.S.



**ALTERNATE TYPE 4A CURB RAMP (PERPENDICULAR)**  
N.T.S.

- ① SIDE FLARES 10.00% MAX SLOPE
- ④ 8.33% MAX RAMP SLOPE
- ⑤ CURB RAMP WIDTH IS EQUAL TO SIDEWALK WIDTH WHEN THE SIDEWALK WIDTH IS GREATER THAN OR EQUAL TO THE MINIMUM 1220 (4'-0").
- ⑥ SLOPE VARIES SEE RAMP DETAILS
- ⑧ CURB RAMP WIDTH IS GREATER THAN OR EQUAL TO THE MINIMUM 1220 (4'-0").
- ⑩ CURB RAMP WIDTH IS GREATER THAN OR EQUAL TO THE MINIMUM 1220 (4'-0").

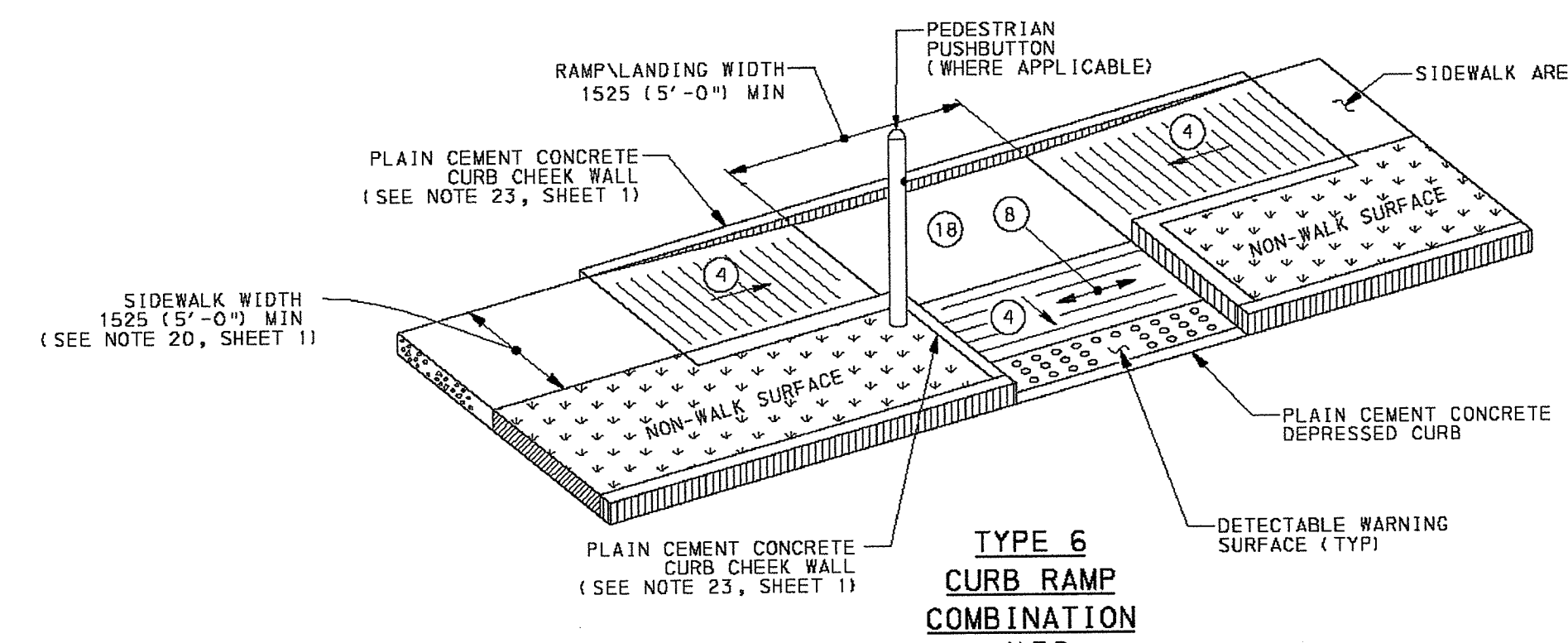


**TYPE 6 CURB RAMP COMBINATION**  
N.T.S.

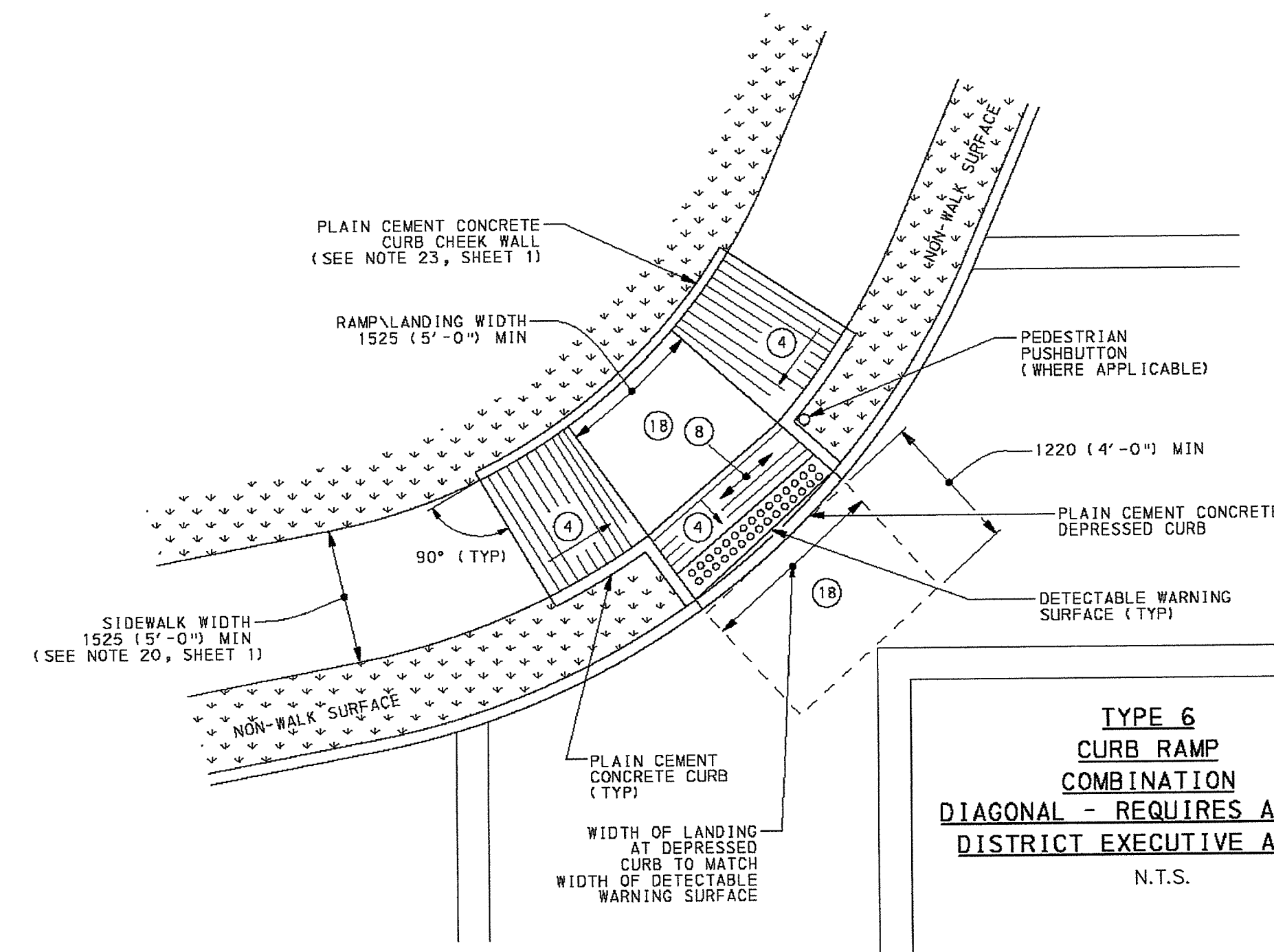
- ① SIDE FLARES 10.00% MAX SLOPE
- ④ 8.33% MAX RAMP SLOPE
- ⑤ CURB RAMP WIDTH IS EQUAL TO SIDEWALK WIDTH WHEN THE SIDEWALK WIDTH IS GREATER THAN OR EQUAL TO 1220 (4'-0").
- ⑧ SLOPE: ZERO ± 2.00%
- ⑩ CURB RAMP WIDTH IS GREATER THAN OR EQUAL TO THE MINIMUM 1220 (4'-0").

**DETECTABLE WARNING SURFACE (DWS) INSTALLATION INSTRUCTIONS**

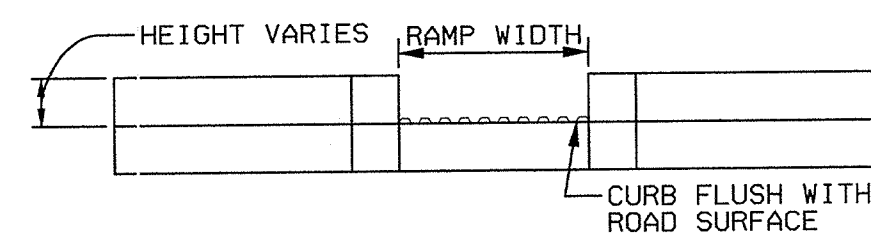
1. SAW CUT EXISTING CURB RAMP SURFACE WHERE THE DWS WILL BE PLACED.
2. REMOVE EXISTING CONCRETE FROM THIS AREA.
3. REPLACE AND COMPACT ANY DISTURBED AGGREGATE SUBBASE.
4. PLACE NEW CEMENT CONCRETE AND LEVEL TO A 6" DEPTH SO THAT THE TOP OF THE CONCRETE IS LOWER THAN THE ADJOINING SIDEWALK, EQUIVALENT TO THE EMBEDDING DEPTH OF THE DWS MATERIAL.
5. LAY OUT AND PROPERLY FIT EACH UNIT PRIOR TO SETTING IN WET CONCRETE.
6. CUT UNITS AS NECESSARY ALONG PERIMETER OF DETECTABLE WARNING SURFACE AND/OR WHERE THE CURB IS FLUSH.
7. PLACE UNITS ACROSS THE ENTIRE WIDTH OF THE DETECTABLE WARNING SURFACE.
8. PRESS UNITS INTO FULL CONTACT WITH THE FRESH CONCRETE.
9. ADJUST HEIGHT OF EACH UNIT EDGE TO BE LEVEL WITH ADJACENT RAMP SURFACES.
10. ONLY TRUNCATED DOMES SHOULD BE ABOVE THE ADJACENT FINISHED CONCRETE.
11. FILL ANY SAW CUT GAPS WITH APPROVED JOINT SEALANT MATERIAL.



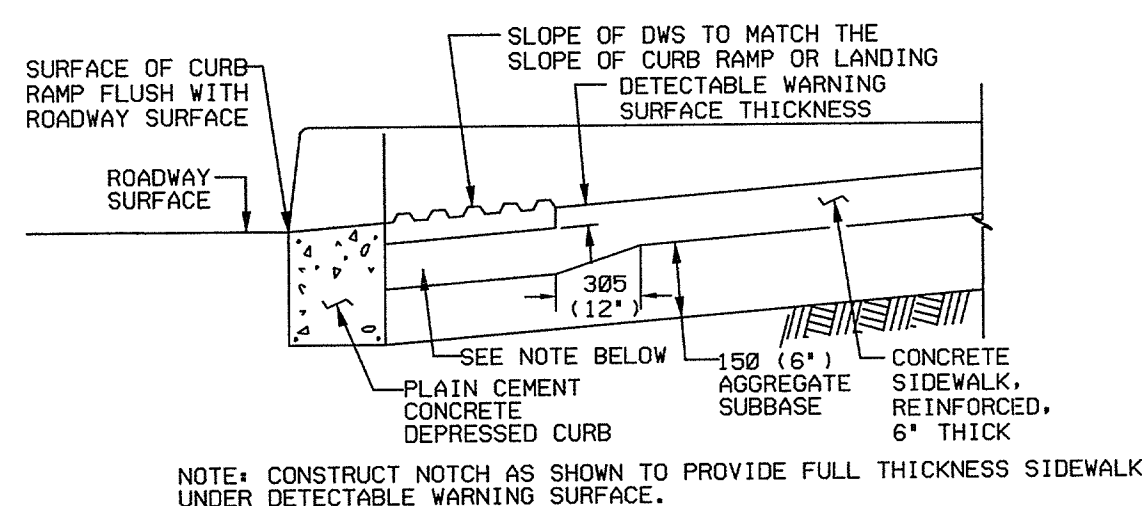
**TYPE 6 CURB RAMP COMBINATION**  
N.T.S.



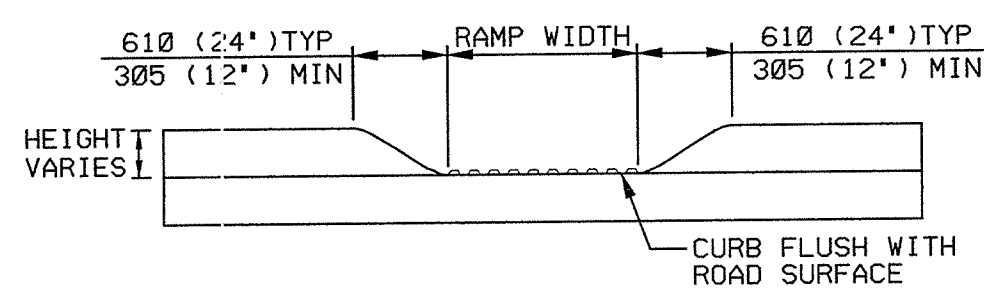
**TYPE 6 CURB RAMP COMBINATION DIAGONAL - REQUIRES ASSISTANT DISTRICT EXECUTIVE APPROVAL**  
N.T.S.



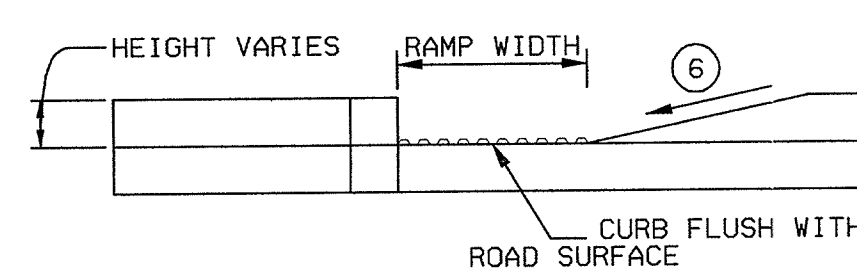
**TYPE 4A NON-TRAVERSABLE ROLLED FLARE TRANSITION**



**DETECTABLE WARNING SURFACE EMBEDDING DETAIL**



**TYPICAL ELEVATIONS FOR DEPRESSED CURBS**  
N.T.S.

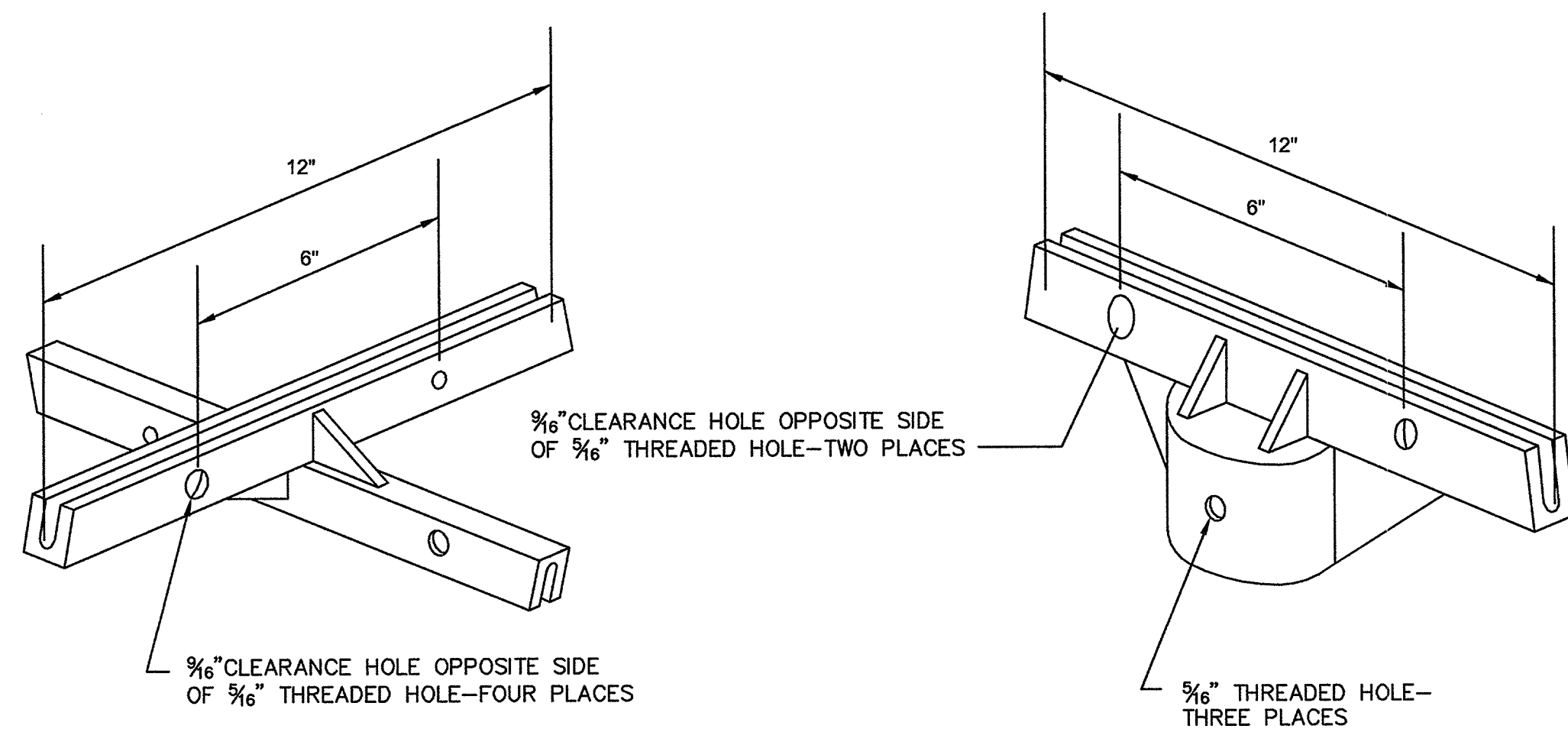


**COMBINATION TRANSITION**

NO.	REVISION	DATE	BY	CHK.	BY
<b>CONSTRUCTION DETAILS</b>					
<b>2015 COUNTY AID RESURFACING PROJECT</b>					
UNION COUNTY, NEW JERSEY					
DATE: _____			DATE: <i>2-13-15</i>		
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882			<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321		
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b>					
300 PENHORN AVENUE, 3RD FLOOR, SECAUOUS, NJ 07094					
(201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVAE.COM					
Certificate of Authorization: 24 GA 28003800					
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY	DWG. NO.
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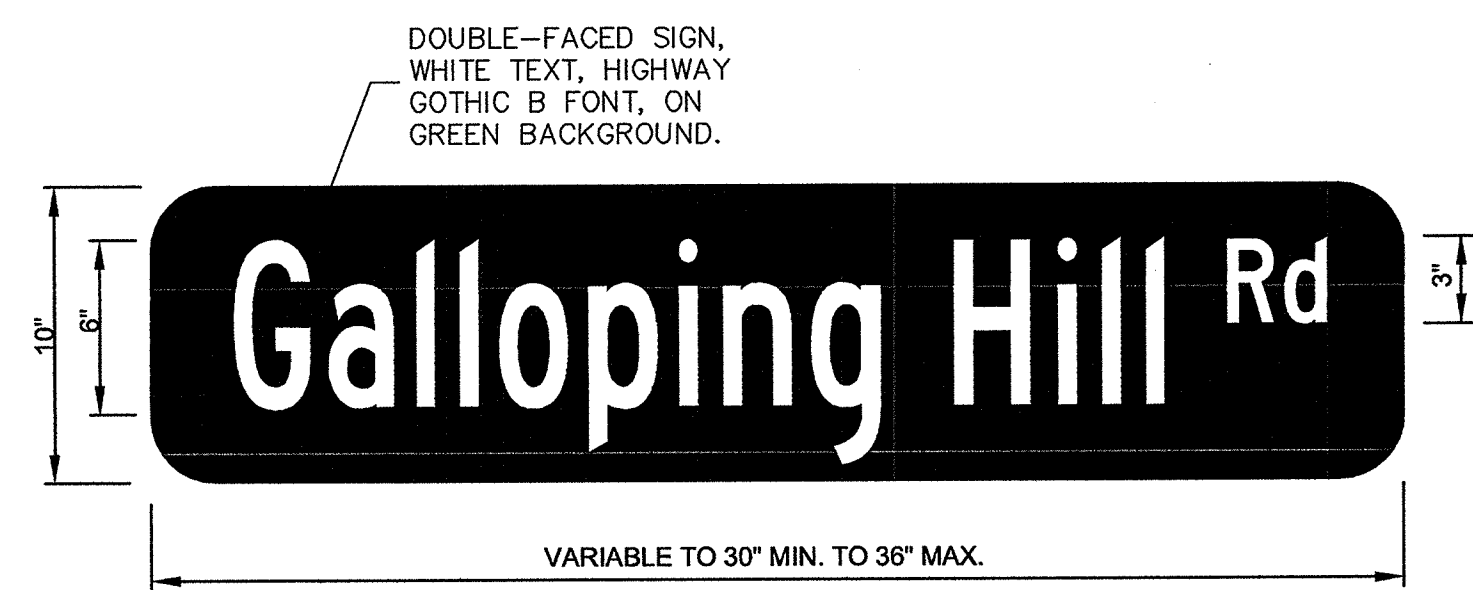
**BOLT THRU CROSS**

EACH HOLE SHALL BE DRILLED AND TAPPED TO ACCEPT A 1/8" STANDARD SET SCREW. VANDAL PROOF SET SCREWS SHALL BE USED IN PLACE OF THE STANDARD SET SCREW 1/8" CLEARANCE HOLE ON OPPOSITE SIDE FOR BOLT-THROUGH ALIGNMENT WITH VANDAL PROOF BOLTS.

**STREET SIGN BOLT THRU BRACKETS**

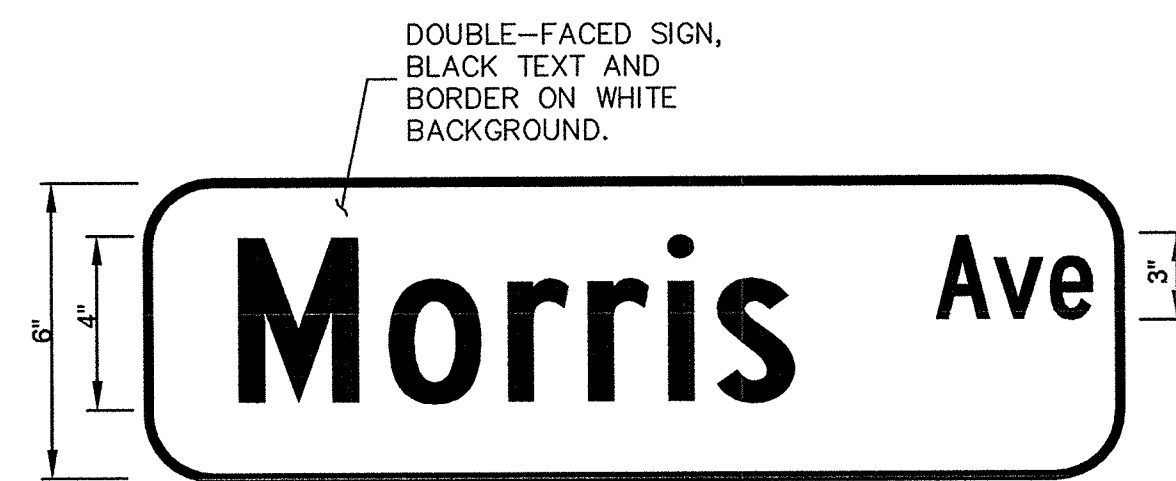
N.T.S.

FOR FLAT EXTRUDED SIGNS AND ROUND, SQUARE OR U-CHANNEL POSTS 12" BLADE HOLDER DRILLED AND TAPPED ON 6" CENTERS



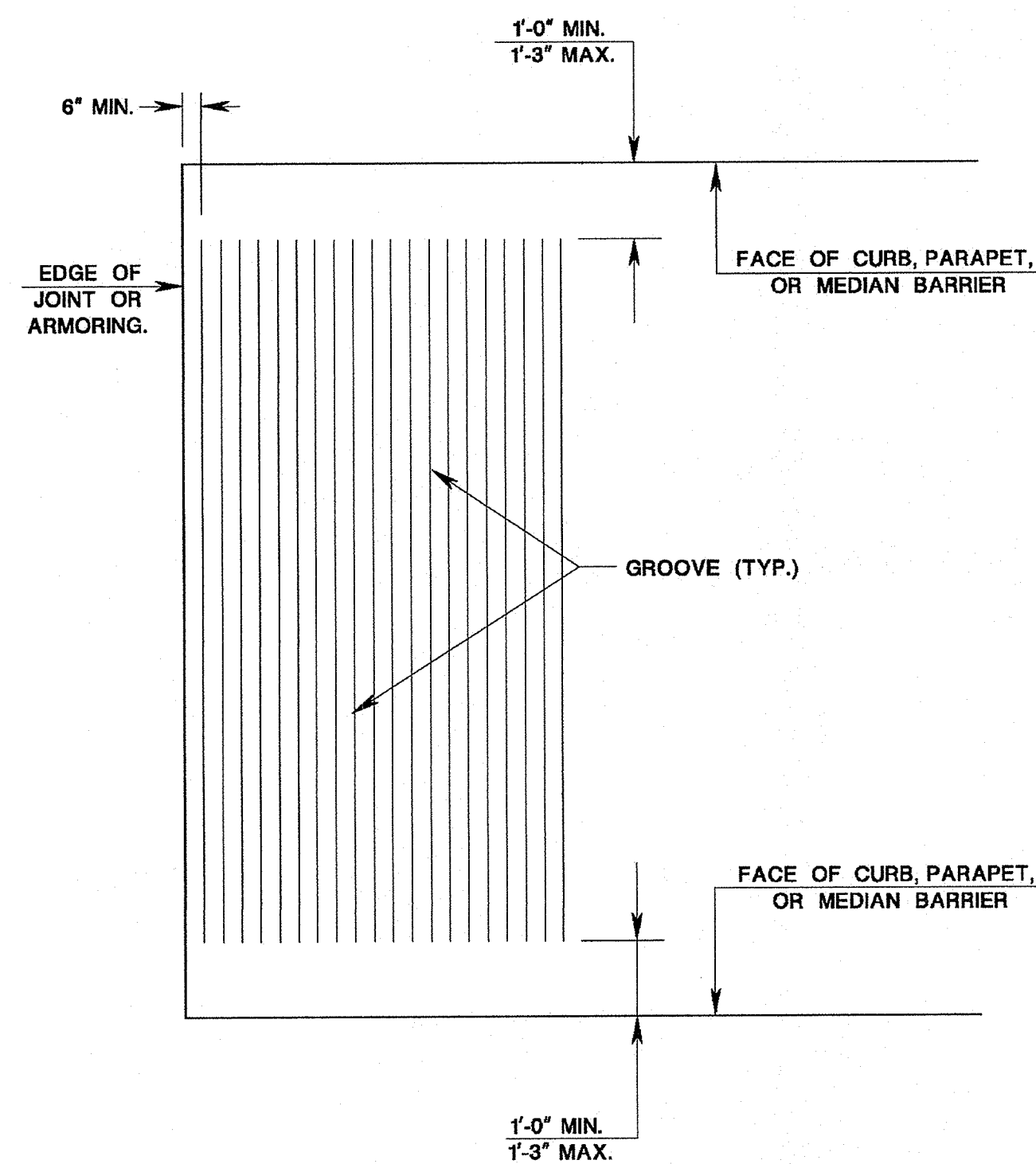
**STREET NAME SIGN, TYPE DF (ALL MUNICIPALITIES EXCEPT SUMMIT CITY)**

N.T.S.

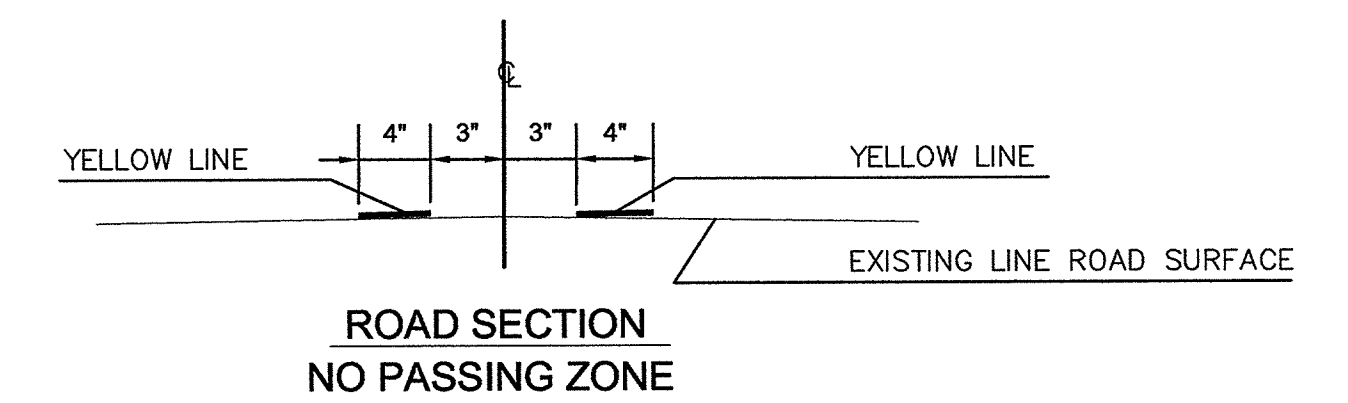


**STREET NAME SIGN, TYPE DF (SUMMIT CITY ONLY)**

N.T.S.

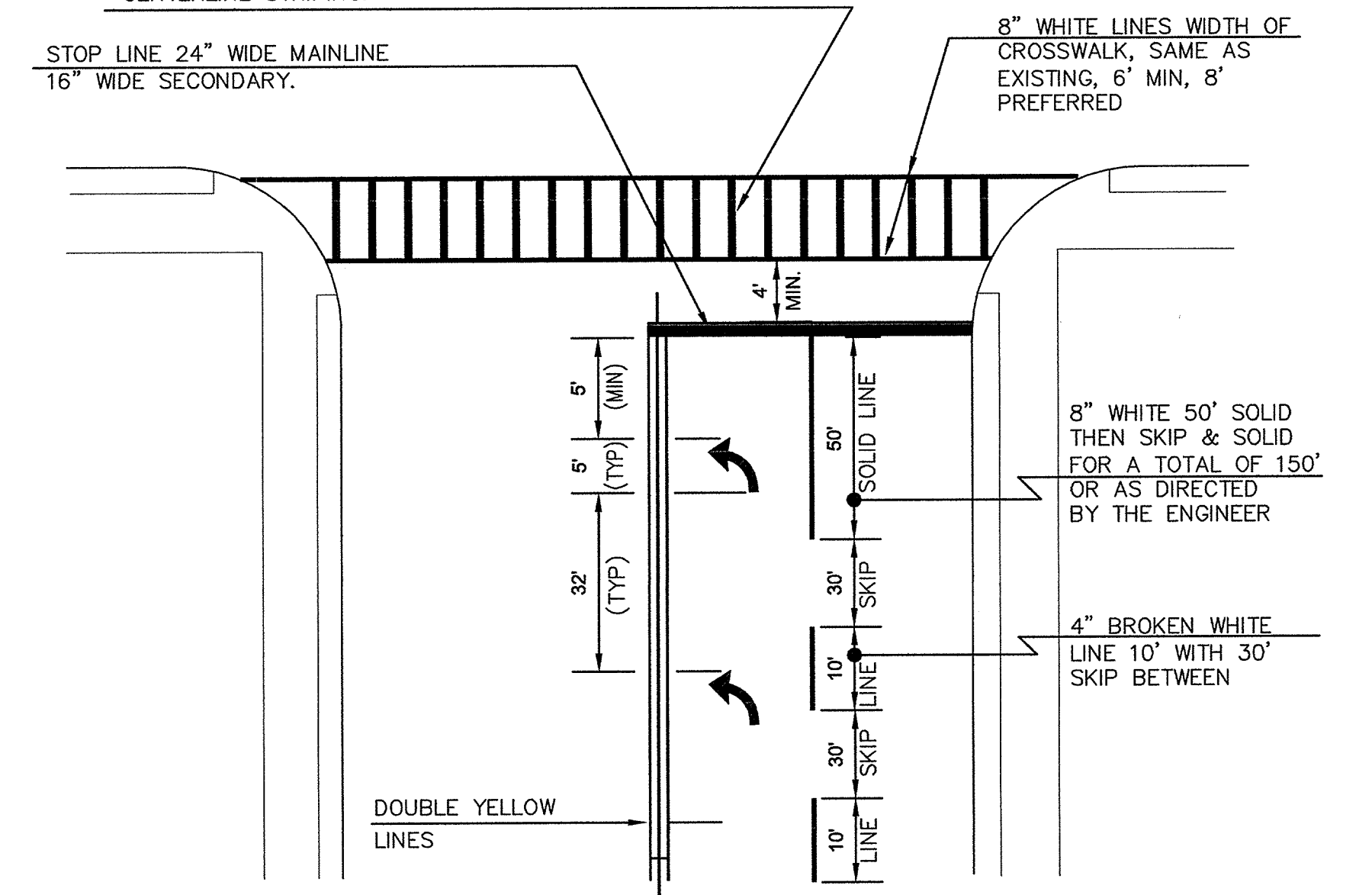


**SAWCUT GROOVING FOR BRIDGE DECKS**



**ROAD SECTION  
NO PASSING ZONE**

NOTE: CROSSWALK HATCHING IS REQUIRED AT ALL CROSSWALKS. ALL HATCHING SHALL BE 12" WIDE SOLID WHITE LINES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER AND SPACED 3 FEET ON CENTER. ALL HATCHING SHALL BE PLACED AT PARALLEL TO CENTERLINE STRIPING.



**PLAN  
APPROACH TO SIGNALIZED INTERSECTION**

**TRAFFIC STRIPING**

N.T.S.

**NOTES:**

1. ALL TRAFFIC MARKINGS SHALL CONFORM TO THE M.U.T.C.D.
2. SYMBOL MARKINGS SHALL CONFORM TO THE STANDARD ALPHABET FOR HIGHWAY SIGNS & PAVEMENT MARKINGS.
3. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC MATERIAL.

NO.	REVISION	DATE	BY	CHK. BY
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**CONSTRUCTION DETAILS**

**2015 COUNTY AID  
RESURFACING PROJECT**  
UNION COUNTY, NEW JERSEY

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DATE: **2-13-15**

**RICHARD G. ARANGO**  
NJ PROFESSIONAL ENGINEER LIC. No. 38882

**FRANK J. SENEY JR.**  
NJ PROFESSIONAL ENGINEER LIC. No. 35321


















**REMINGTON, VERNICK & ARANGO ENGINEERS**  
300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094  
(201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM  
Certificate of Authorization: 24 GA 28003900

SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY	DWG. NO.	SHEET. NO.
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015	38 OF 50

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**LEGEND**

-  BREAKAWAY BARRICADES
-  BREAKAWAY BARRICADES WITH SIGN
-  CONSTRUCTION SIGNS
-  DRUMS
-  CONE
-  PRECAST CONCRETE CURB CONSTRUCTION BARRIER (TYPE SPECIFIED)
-  DIRECTION OF TRAFFIC FLOW
-  TRAFFIC DIRECTOR, FLAGGER
-  TRAILER MOUNTED MOUNTED ARROW BOARD SHOWING CAUTION MODE
-  ILLUMINATED FLASHING ARROW MOUNTED ON TOWING VEHICLE SHOWING ARROW PATTERN (Left, Right, Both)
-  TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING CAUTION MODE
-  TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING ARROW PATTERN (Left, Right, Both)
-  TEMPORARY CRASH CUSHION, INERTIAL BARRIER SYSTEM
-  TEMPORARY CRASH CUSHION, (all other approved)
-  BUFFER ZONE
-  WORK AREA
-  PAINT STRIPING TRUCK OR OTHER OPERATING VEHICLE

**GENERAL NOTES:**

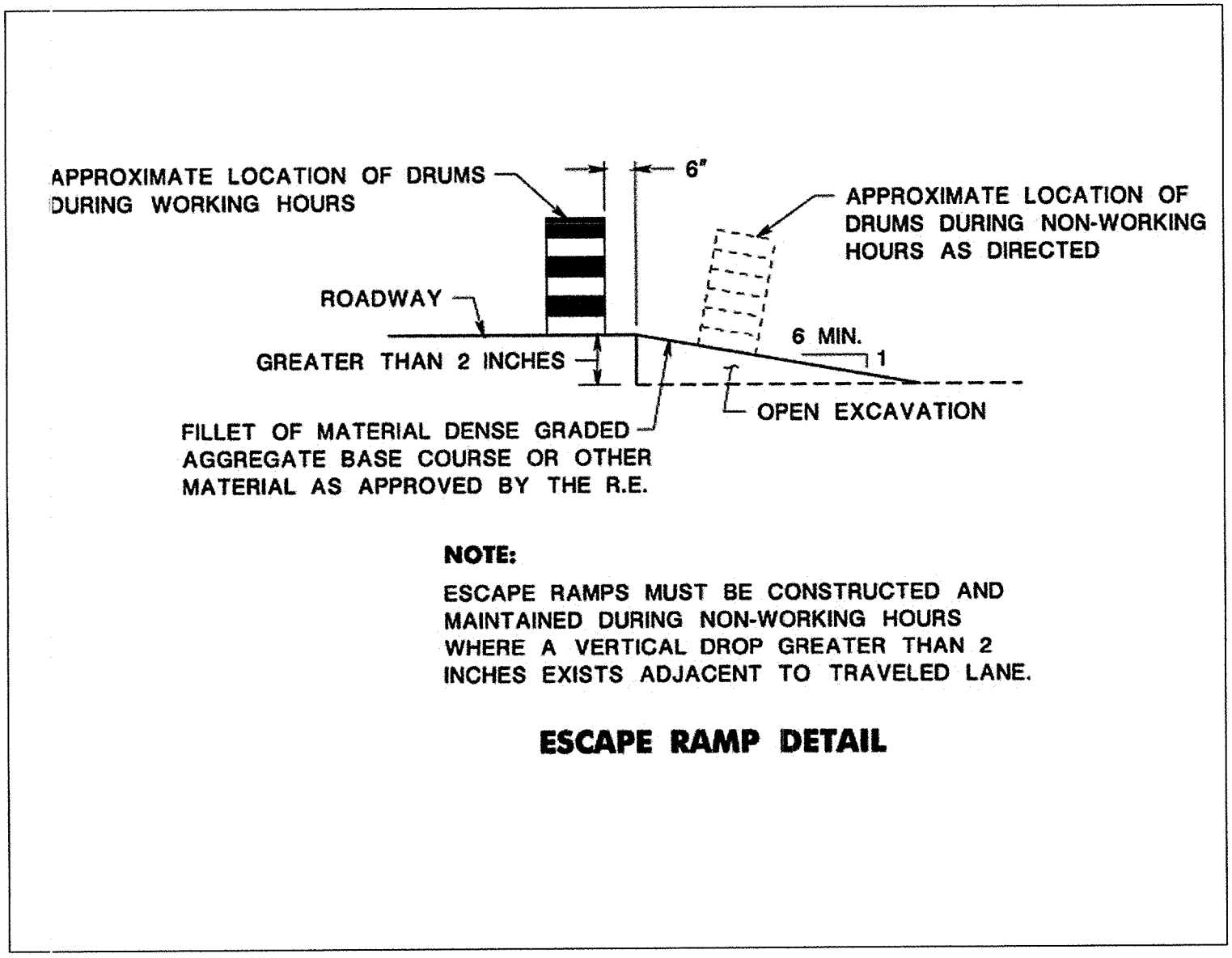
1. ADVANCE WARNING SIGNS DISTANCES, AND TAPER LENGTHS MAY BE EXTENDED, AT DIRECTION OF THE DEPARTMENT, TO ADJUST FOR REDUCED VISIBILITY DUE TO HORIZONTAL AND VERTICAL CURVATURE OF THE ROADWAY.
2. THE APPROXIMATE LOCATIONS OF THE ILLUMINATED FLASHING ARROW BOARDS ARE SHOWN ON THE TRAFFIC CONTROL PLANS. THESE LOCATIONS MAY BE MODIFIED AS APPROVED BY RE TO ADJUST FOR VISIBILITY DUE TO HORIZONTAL OR VERTICAL CURVATURE OF THE ROADWAY OR TO POSITION AT A SAFER LOCATION. ILLUMINATED FLASHING ARROW BOARDS ARE TO BE USED FOR TEMPORARY LANE CLOSINGS AND AT LOCATIONS SHOWN ON THE TRAFFIC CONTROL PLANS.
3. PRIOR TO ANY ROAD CONSTRUCTION, TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE IN PLACE.
4. RAMPS AND/OR SIDE STREETS ENTERING THE ROADWAY AFTER THE FIRST ADVANCE WARNING SIGN SHALL BE PROVIDED WITH AT LEAST ONE W20-F SIGN (ROAD WORK AHEAD) AS A MINIMUM.
5. ALL EXISTING ROAD SIGNS, PAVEMENT MARKINGS AND/OR PLOWABLE PAVEMENT REFLECTORS WHICH CONFLICT WITH THE PROPOSED TRAFFIC CONTROL PLAN SHALL BE COVERED, REMOVED OR RELOCATED AS DIRECTED BY THE RE.
6. CONFLICTING OR NON-OPERATING SIGNAL INDICATIONS ON EITHER THE EXISTING, TEMPORARY, OR PROPOSED TRAFFIC SIGNAL SYSTEMS SHALL BE BAGGED OR COVERED.
7. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES - PART VI STANDARDS AND GUIDES FOR TRAFFIC CONTROL FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY, AND INCIDENT MANAGEMENT OPERATIONS, UNLESS OTHERWISE NOTED IN THE PLANS AND SPECIFICATIONS.
8. CONSTRUCTION SIGN W99-2 (GIVE US A BRAKE) SHALL BE LOCATED 200 FEET IN ADVANCE OF PROJECT LIMITS.
9. A W46 (ARROW) SIGN MOUNTED ON A BREAKAWAY BARRICADE AND CENTERED ON THE CLOSED WIDTH SHALL BE LOCATED 90 FEET BEYOND EACH INTERSECTION OR MAIN ACCESS POINT WITHIN THE AREA OF A LANE OR SHOULDER CLOSURE.
10. CONSTRUCTION SIGNS R1-4 (ROAD CLOSED TO THRU TRAFFIC) SHALL BE PLACED AT THE INTERSECTING STREETS WHICH ARE CLOSED TO TRAFFIC BECAUSE OF CONSTRUCTION.
11. CONSTRUCTION SIGNS W8-8A (SYMBOL FOR UNEVEN PAVEMENT) AND W8-14A (GROOVED PAVEMENT) SHALL BE USED WHEN SUCH PAVEMENT CONDITIONS EXIST. THE PLACEMENT OF THESE SIGNS SHALL BE AS DIRECTED BY THE RE.
12. MOVING WORK AREAS IN A LANE CLOSURE REQUIRE A TRAILER MOUNTED ILLUMINATED FLASHING ARROW TO REMAIN AT THE END OF THE TAPER. THE TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION THAT SHALL MOVE WITH THE WORK AREAS TO KEEP A 70 FEET MIN. AND 150 FEET MAX. BUFFER IN ADVANCE OF EACH WORK AREA.
13. THE CONTRACTOR SHALL SUBMIT A PLAN FOR THE SAFE ACCESS OF CONSTRUCTION VEHICLES THROUGHOUT THE WORK SITE WHERE SPACE CONSTRAINTS PREVENT THE USE OF LANE CLOSURES. THE PLAN SHALL BE SUBMITTED TO THE RE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
14. ALL EXCAVATED AREAS WITHIN OR ADJACENT TO THE ROADWAY SHALL BE BACKFILLED AND PLACED ON AT LEAST 6H : 1V SLOPE BEFORE THE END OF EACH WORK DAY. OTHER EXCAVATED AREA WITHIN THE CLEAR ZONE SHALL BE BACKFILLED.
15. WHERE REQUIRED, THE CONTRACTOR SHALL MAKE PROVISIONS FOR MAINTAINING PEDESTRIAN CROSSING LOCATIONS AND TYPE AS DIRECTED BY THE RE.
16. BITUMINOUS CONCRETE PLACED DURING THE VARIOUS CONSTRUCTION STAGES SHALL BE TRANSITIONED ON A MINIMUM 20H : 1V SLOPE TO MEET THE ADJACENT EXISTING GRADE AT THE LONGITUDINAL AND TRANSVERSE LIMITS OF THE STAGE CONSTRUCTION AREAS UNLESS OTHERWISE NOTED ON THE STAGE CONSTRUCTION PLANS.
17. THE PLACEMENT AND OR RELOCATION OF PRECAST CONCRETE CURB, CONSTRUCTION BARRIER SHALL BE DONE DURING APPROVED OFF-PEAK HOURS WHEN TRAFFIC MAY BE REDUCED TO ONE LANE IN EACH DIRECTION.
18. CONSTRUCTION ZONE SPEED LIMIT WILL BE DETERMINED BY THE TRAFFIC SIGNAL & SAFETY ENGINEERING, REGIONAL TRAFFIC ENGINEER - WORK ZONE, AT THE TIME OF OR DURING CONSTRUCTION, AS REQUESTED BY THE R.E..
19. THE SPEED LIMIT, R2-1 (BLACK ON WHITE) WITH ADDED WORK ZONE PLATE (BLACK ON ORANGE) SIGNS SHALL BE LOCATED THROUGH WORK AREAS AS DIRECTED BY THE TRAFFIC SIGNAL & SAFETY ENGINEERING REGIONAL TRAFFIC ENGINEER - WORK ZONE.
20. THE REDUCED SPEED AHEAD SIGN, W3-9(S) (BLACK ON ORANGE) SHALL BE LOCATED IN ADVANCE OF SPEED LIMIT R2-1 SIGNS WHICH REDUCE THE NORMAL POSTED SPEED LIMIT THROUGH THE CONSTRUCTION ZONE.
21. TRAFFIC FINES DOUBLED IN WORK AREA R(N)5-17(S), 4 FEET BY 2.5 FEET SIGN SHALL BE LOCATED 500 FEET AFTER THE FIRST ADVANCE WARNING SIGN, (W20 SERIES) AT EACH WORK AREA LOCATED WITHIN URBAN AREAS. THIS SIGN SHALL ALSO BE USED ON PROJECTS REQUIRING MOVING OPERATIONS IN WHICH CASE THE SIGN SHALL BE MOUNTED ON A SLOW MOVING CONSTRUCTION VEHICLE.
22. THE FINAL HMA SURFACE PAVEMENT SHALL NOT BE CONSTRUCTED UNTIL THE FINAL STAGE OF THE PROJECT UNLESS OTHERWISE DIRECTED BY THE RE OR INDICATED ON THE PLANS. MANHOLES AND INLETS SHALL BE SET TO FINISHED GRADE AND TEMPORARY PAVEMENT RAMPS ARE TO BE CONSTRUCTED AROUND THEM WITH A MINIMUM 20H : 1V SLOPE IN ALL DIRECTIONS USING HOT MIX ASPHALT PAVEMENT. THIS TEMPORARY MATERIAL WILL BE REMOVED IMMEDIATELY PRIOR TO PLACING THE SURFACE COURSE.
23. TRAFFIC CONTROL DEVICES FOR LANE CLOSURES INCLUDING SIGNS, CONES, BARRICADES, ETC. SHALL BE PLACED AS SHOWN ON PLANS. SIGNS SHALL NOT BE PLACED WITHOUT ACTUAL LANE CLOSURES AND SHALL BE IMMEDIATELY REMOVED UPON REMOVAL OF THE CLOSURES.
24. CONES MAY BE SUBSTITUTED FOR DRUMS AND INSTALLED UPON THE APPROVAL OF THE RE.
25. TRAFFIC IMPACT NOTICES AND CHANGES
  - A. TERMS:  
WHEN THE FOLLOWING TERMS ARE USED, THE INTENT AND MEANING SHALL BE AS FOLLOWS:  
i. IMPACTS TO NORMAL TRAFFIC FLOW - WORK THAT REQUIRES A PORTION OF THE PAVED ROADWAY BEING BLOCKED OR CLOSED WITH SAFETY DEVICES OR VEHICLES, INCLUDING, BUT NOT LIMITED TO, FULL OR PARTIAL LANE CLOSURES, FULL OR PARTIAL RAMP CLOSURES, SHOULDER CLOSURES, MOVING OPERATIONS SUCH AS TRAFFIC STRIPING OR SWEEPING, LANE SHIFTS, OR ALTERNATING TRAFFIC. THIS APPLIES EVEN WHEN DETOURS ARE PROVIDED.
  - ii. TEMPORARY LANE CLOSURES - WORK DESCRIBED UNDER "IMPACTS TO NORMAL TRAFFIC FLOW" WHICH IS ROUTINELY SET UP AND REMOVED ON A DAILY BASIS.
  - iii. PERMANENT LANE CLOSURES - WORK DESCRIBED UNDER "IMPACTS TO NORMAL TRAFFIC FLOW" WHICH REMAINS IN PLACE CONTINUOUSLY FOR 24 HOURS OR MORE.
- B. ADVANCE NOTICES  
FOR THE INITIAL START OF WORK THAT REQUIRES "IMPACTS TO NORMAL TRAFFIC FLOW", THE CONTRACTOR SHALL NOTIFY THE RE IN WRITING, ON THE ADVANCE FORM TO-103 PROVIDED BY THE DEPARTMENT, OF THE PROPOSED DATE. THE NOTICE SHALL BE SUBMITTED AT LEAST TWENTY-EIGHT CALENDAR DAYS, BUT NOT MORE THAN SIXTY CALENDAR DAYS, BEFORE THE PROPOSED DATE. START OF A NEW TRAFFIC PATTERN WILL NOT BE PERMITTED PRIOR TO THE DATE STATED IN THE NOTICE. THE CONTRACTOR SHALL CONFIRM IN WRITING TO THE RE, THE PROPOSED DATE SEVEN (AND/OR FOURTEEN) CALENDAR DAYS BEFORE STARTING THE ESTABLISHMENT OF THE TRAFFIC CONTROL MEASURES FOR THE TRAFFIC IMPACT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RE IF THE PROPOSED ESTABLISHMENT CAN NOT BE COMPLETED ON THE PROPOSED DATE.  
FOR A "PERMANENT LANE CLOSURE", THE CONTRACTOR SHALL NOTIFY THE RE IN WRITING, ON ADVANCE FORM TO-103, OF THE PROPOSED DATE A NEW TRAFFIC PATTERN WILL BE ESTABLISHED. THE NOTICE SHALL BE SUBMITTED AT LEAST TWENTY-EIGHT CALENDAR DAYS, BUT NOT MORE THAN SIXTY CALENDAR DAYS, IN ADVANCE OF THE PROPOSED DATE. START OF A NEW TRAFFIC PATTERN WILL NOT BE PERMITTED PRIOR TO THE DATE STATED IN THE NOTICE. THE CONTRACTOR SHALL CONFIRM IN WRITING TO THE RE, THE PROPOSED DATE OF THE NEW TRAFFIC PATTERN SEVEN (AND/OR FOURTEEN) DAYS BEFORE STARTING TRAFFIC CONTROL MEASURES FOR THE ESTABLISHMENT OF THE NEW PATTERN. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RE IF THE PROPOSED ESTABLISHMENT CAN NOT BE COMPLETED ON THE PROPOSED DATE.  
STARTING THE ESTABLISHMENT OF A NEW PERMANENT TRAFFIC PATTERN SHALL BEGIN NO EARLIER THAN 100 PM FRIDAY AND SHALL BE COMPLETED AND READY FOR OPERATIONS BY 600 PM THE FOLLOWING SUNDAY. THE ESTABLISHMENT SHALL BE COMPLETED IN ACCORDANCE WITH THE LANE CLOSURE HOURS SPECIFIED IN THE CONTRACT.  
ADVANCE NOTICES SENT PRIOR TO THE PRE-CONSTRUCTION MEETING SHALL BE ADDRESSED TO THE CONTACT PERSON AS SPECIFIED IN SUBSECTION 101.04 OF THE SPECIAL PROVISIONS.
- C. PROGRESS NOTICES  
ALL "IMPACTS TO NORMAL TRAFFIC FLOW" SCHEDULED FOR THE SEVEN DAY PERIOD STARTING ON THE FOLLOWING MONDAY SHALL BE SUBMITTED TO THE RE BY 9:00 AM OF EACH FRIDAY ON WEEKLY FORM TO-100 PROVIDED BY THE DEPARTMENT.  
EACH DAY OF "TEMPORARY LANE CLOSURES" SHALL BE SUBMITTED TO THE RE BY 9:00 AM THE DAY IN ADVANCE OF THE START OF THOSE OPERATIONS ON DAILY FORM TO-101 PROVIDED BY THE DEPARTMENT.  
"TEMPORARY LANE CLOSURES" FOR WEEKENDS SHALL BE SUBMITTED TO THE RE BY 9:00 AM ON THE IMMEDIATELY PRECEDING FRIDAY ON THE DAILY FORM TO-101 PROVIDED BY THE DEPARTMENT.
- D. CHANGES TO THE SCHEDULED CLOSURES  
REQUEST FOR A CHANGE TO THE TRAFFIC CONTROL REQUIREMENTS IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED IN WRITING TO THE RE AS FOLLOWS:  
CHANGES TO THE SCHEDULED HOURS FOR "TEMPORARY LANE CLOSURES" SHALL BE SUBMITTED TO THE RE AT LEAST EIGHT CALENDAR DAYS IN ADVANCE OF WHEN THE CHANGE IS PROPOSED TO START.  
OTHER PROPOSED CHANGES TO "TEMPORARY LANE CLOSURES" AND ALL CHANGES TO "PERMANENT LANE CLOSURES" SHALL BE SUBMITTED TO THE RE AS SPECIFIED IN THE SPECIFICATIONS.

REGULATORY APPROACH SPEED OF TRAFFIC MILE/HOUR	RECOMMENDED SIGHT DISTANCE TO BEGINNING OF CHANNELIZING TAPERS		
	DESIRABLE		MINIMUM
	RURAL FEET	URBAN FEET	RURAL AND URBAN FEET
25	375	525	150
30	450	625	200
35	525	725	250
40	600	825	325
45	675	925	400
50	750	1025	475
55	825	1150	550
60	1000	1275	650
65	1050		725

- NOTES:**
1. AVOIDANCE MANEUVER IS FOR A SPEED, PATH, AND/OR DIRECTION CHANGE PRIOR TO THE BEGINNING OF CHANNELIZING TAPERS.
  2. RECOMMENDED DISTANCES BETWEEN TWO SEPARATE LANE CLOSURES SHALL BE DOUBLE THE VALUES SHOWN ABOVE.
  3. RURAL AND URBAN ROAD DESIGNATIONS SHALL BE AS DEFINED IN THE NJDOT STATE HIGHWAY STRAIGHT LINE DIAGRAMS.
  4. DESIRABLE VALUES SHALL BE PROVIDED WHEREVER POSSIBLE. IF IT IS NOT FEASIBLE OR PRACTICAL TO PROVIDE DESIRABLE VALUES BECAUSE OF HORIZONTAL OR VERTICAL CURVATURE OR IF RELOCATION OF THE TAPER IS NOT POSSIBLE, THEN MINIMUM VALUES CAN BE APPLIED. WHEN MINIMUM VALUES ARE USED, SPECIAL ATTENTION SHOULD BE GIVEN TO THE USE OF SUITABLE TRAFFIC CONTROL DEVICES FOR PROVIDING ADVANCED WARNING OF THE CONDITIONS THAT ARE LIKELY TO BE ENCOUNTERED.
  5. TAPERS SHALL BE LOCATED TO MAXIMIZE THE VISIBILITY OF THEIR TOTAL LENGTH.

REGULATORY APPROACH SPEED OF TRAFFIC MILE/HOUR	RECOMMENDED TAPER LENGTH AND SPACING FOR CHANNELIZING TAPERS			RECOMMENDED SPACING ALONG TANGENTS		
	MINIMUM TAPER RATIO IN LENGTH PER FOOT OF WIDTH	MINIMUM TAPER LENGTH L - FOR LANE WIDTHS		MAXIMUM DEVICE (B) SPACING ALONG TAPERS IN FEET	MAXIMUM DEVICE (D) SPACING ALONG TANGENTS IN FEET	
		10'	11'			12'
25	10.5:1	105	115	125	25	50
30	15:1	150	165	180	30	60
35	20.5:1	205	225	245	35	70
40	27:1	270	300	325	40	80
45	45:1	450	495	540	45	90
50	50:1	500	550	600	50	100
55	55:1	550	605	660	55	110
60	60:1	600	660	720	60	120
65	65:1	650	715	780	65	130

**NOTE:**  
THE MAXIMUM DEVICE SPACING ALONG CURVES SHALL BE AS DEFINED FOR TAPERS (B) IN THE ABOVE TABLE.



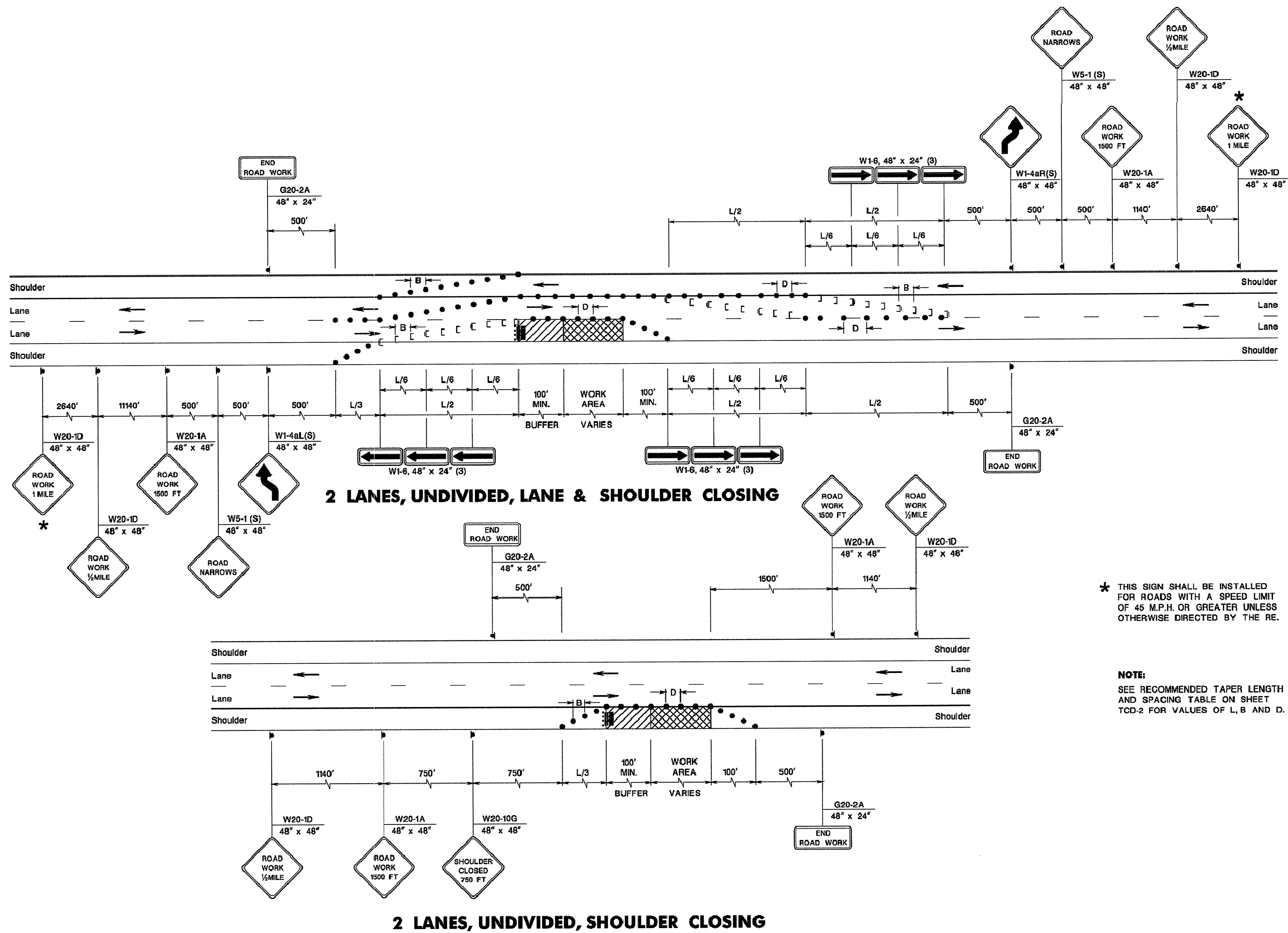
NO.	REVISION	DATE	BY	CHK.	BY
<b>MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS</b>					
<b>2015 COUNTY AID RESURFACING PROJECT</b>					
UNION COUNTY, NEW JERSEY					
DATE: _____			DATE: 2-13-15		
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882			<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321		
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b>					
300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094 (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM					
SCALE: AS NOTED	DATE: 2/2015	DRAWN BY: P.J.P.	DSGN. BY: CHK. D.	DWG. NO.: 2000X015	SHEET NO.: 39 OF 50
ALL DOCUMENTS PREPARED BY REMINGTON, VERNICK & ARANGO ENGINEERS ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS. AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM. PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.					

MPT-1  
MPT-12









\* THIS SIGN SHALL BE INSTALLED FOR ROADS WITH A SPEED LIMIT OF 45 M.P.H. OR GREATER UNLESS OTHERWISE DIRECTED BY THE RE.

**NOTE:**  
SEE RECOMMENDED TAPER LENGTH AND SPACING TABLE ON SHEET TCD-2 FOR VALUES OF L, B AND D.

NO.	REVISION	DATE	BY	CHK.	BY

**MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS**  
2015 COUNTY AID  
RESURFACING PROJECT  
UNION COUNTY, NEW JERSEY

DATE: 2-13-15  
**RICHARD G. ARANGO**  
 NJ PROFESSIONAL ENGINEER LIC. No. 38882  
**FRANK J. SENEY JR.**  
 NJ PROFESSIONAL ENGINEER LIC. No. 35321

**REMINGTON, VERNICK & ARANGO ENGINEERS**  
 300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094  
 (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RV&A.COM  
 Certificate of Authorization: 24 GA 28003800

SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY	DWG. NO.	SHEET. NO.
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015	40 OF 50

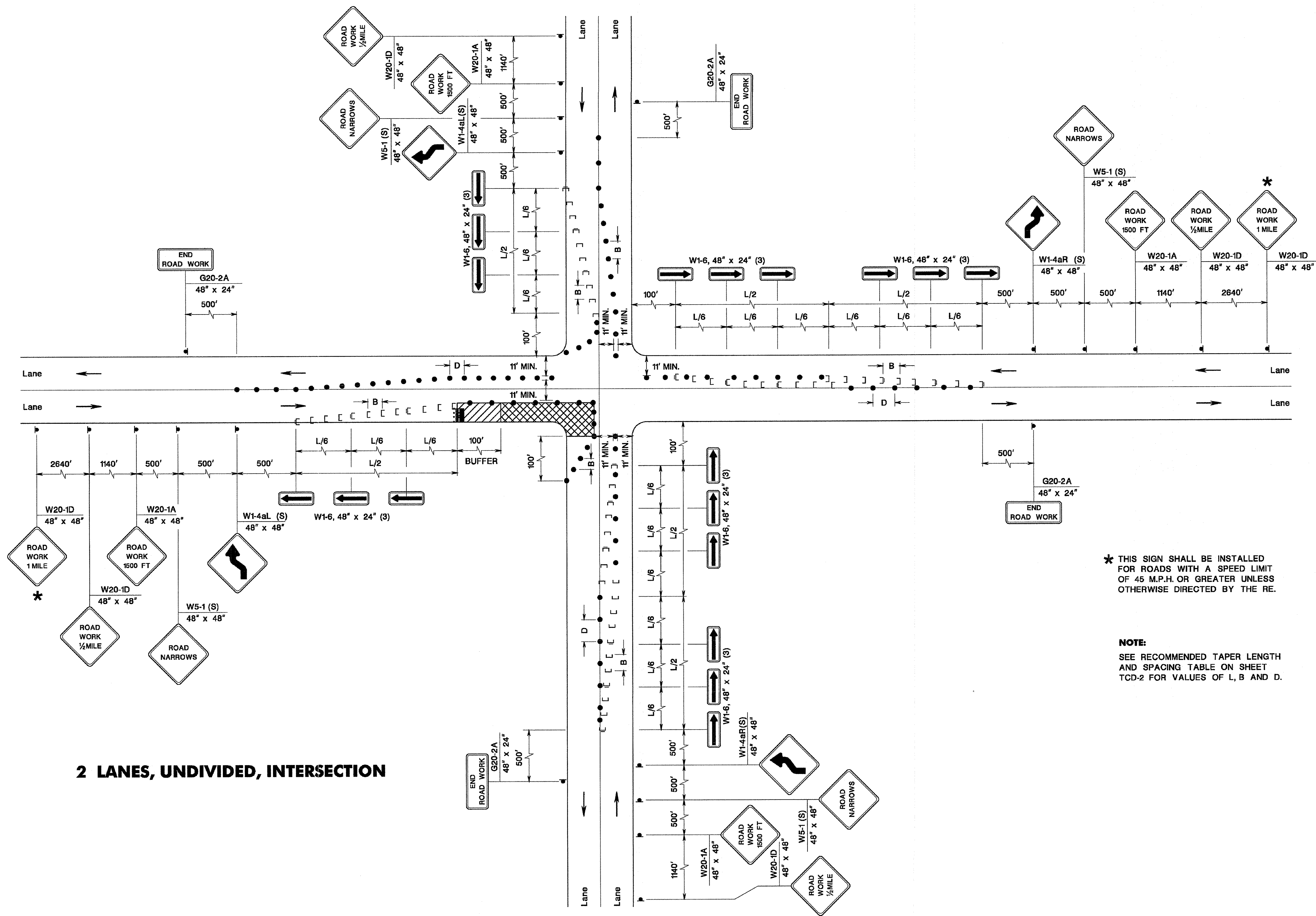
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MPT-2  
MPT-12





**2 LANES, UNDIVIDED, INTERSECTION**

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**NOTE:**  
SEE RECOMMENDED TAPER LENGTH AND SPACING TABLE ON SHEET TCD-2 FOR VALUES OF L, B AND D.

MPT-4  
MPT-12

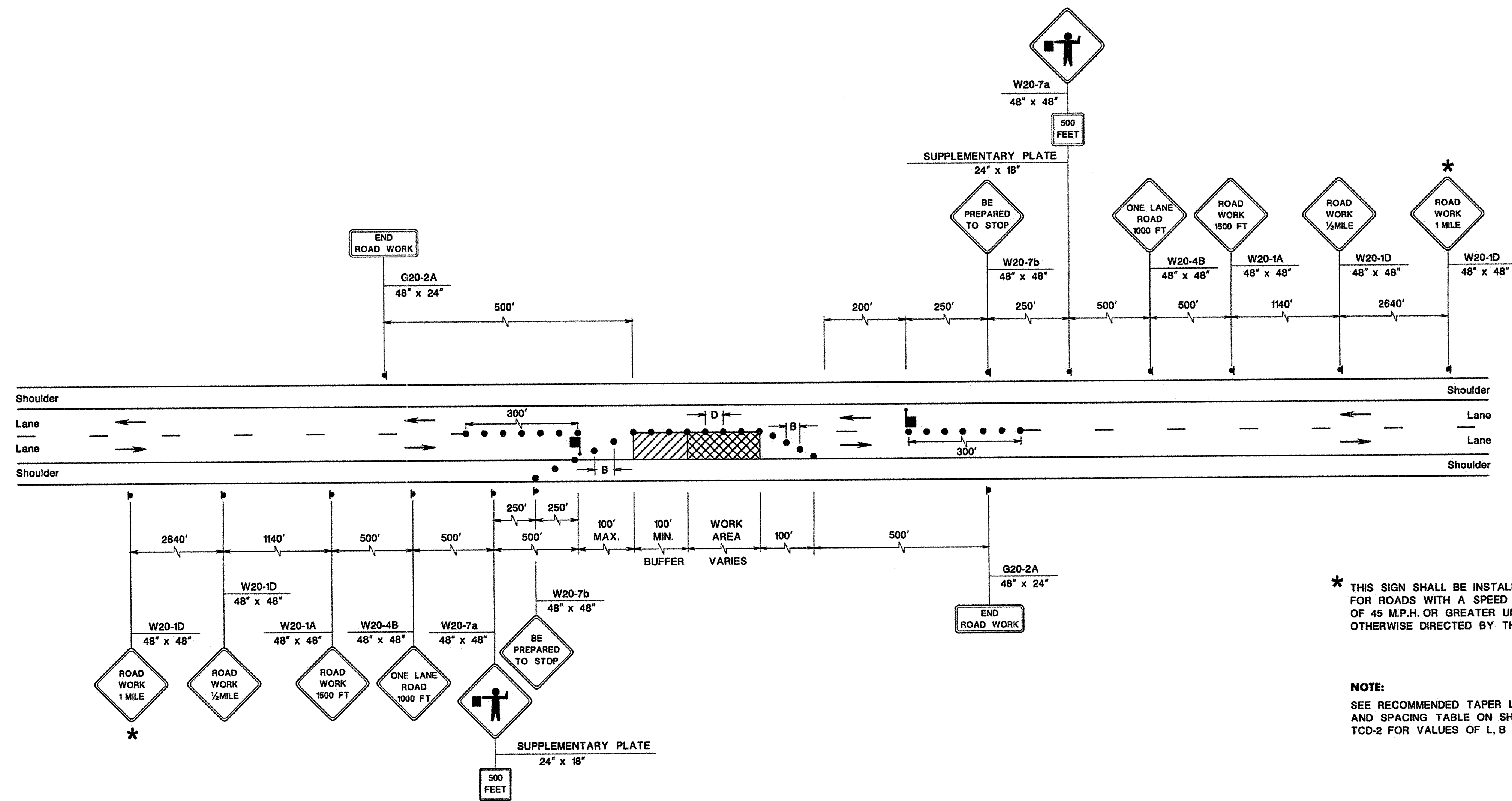
NO.	REVISION	DATE	BY	CHK. BY		
<b>MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS</b> 2015 COUNTY AID RESURFACING PROJECT UNION COUNTY, NEW JERSEY						
DATE:		DATE: 2-13-15				
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882		<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321				
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b> <small>300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094            (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RV&amp;A.COM            Certificate of Authorization: 24 GA 28003900</small>						
SCALE	DATE	DRAWN BY	DSGN. BY	CHK. D. BY	DWG. NO.	SHEET. NO.
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015	41 OF 50

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**2 LANES, UNDIVIDED, LANE & SHOULDER CLOSING W/FLAGGING**

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NOTE:  
SEE RECOMMENDED TAPER LENGTH AND SPACING TABLE ON SHEET TCD-2 FOR VALUES OF L, B AND D.

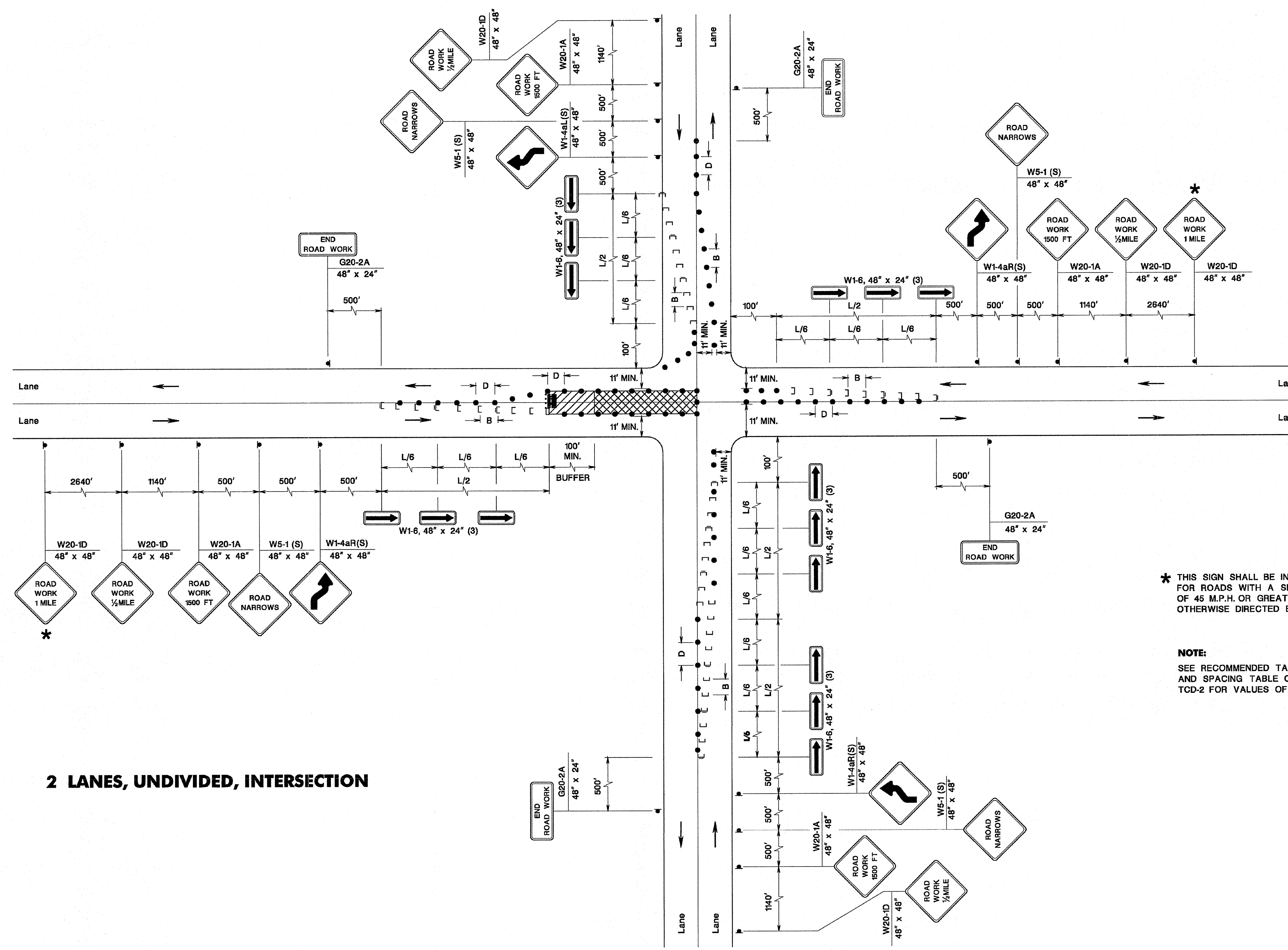
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MPT-3  
MPT-12

NO.	REVISION	DATE	BY	CHK.	BY
<b>MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS</b> 2015 COUNTY AID RESURFACING PROJECT UNION COUNTY, NEW JERSEY					
DATE:		2-13-15			
<b>RICHARD G. ARANGO</b>		<b>FRANK J. SENEY JR.</b>			
NJ PROFESSIONAL ENGINEER LIC. No. 38882		NJ PROFESSIONAL ENGINEER LIC. No. 35321			
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b> 300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094 (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM Certificate of Authorization: 24 GA 28003800					
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY	DWG. NO.
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015
DWG. FILE PATH/NAME					SHEET. NO.
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**2 LANES, UNDIVIDED, INTERSECTION**

\* THIS SIGN SHALL BE INSTALLED FOR ROADS WITH A SPEED LIMIT OF 45 M.P.H. OR GREATER UNLESS OTHERWISE DIRECTED BY THE RE.

**NOTE:**  
SEE RECOMMENDED TAPER LENGTH AND SPACING TABLE ON SHEET TCD-2 FOR VALUES OF L, B AND D.

MPT-5  
MPT-12

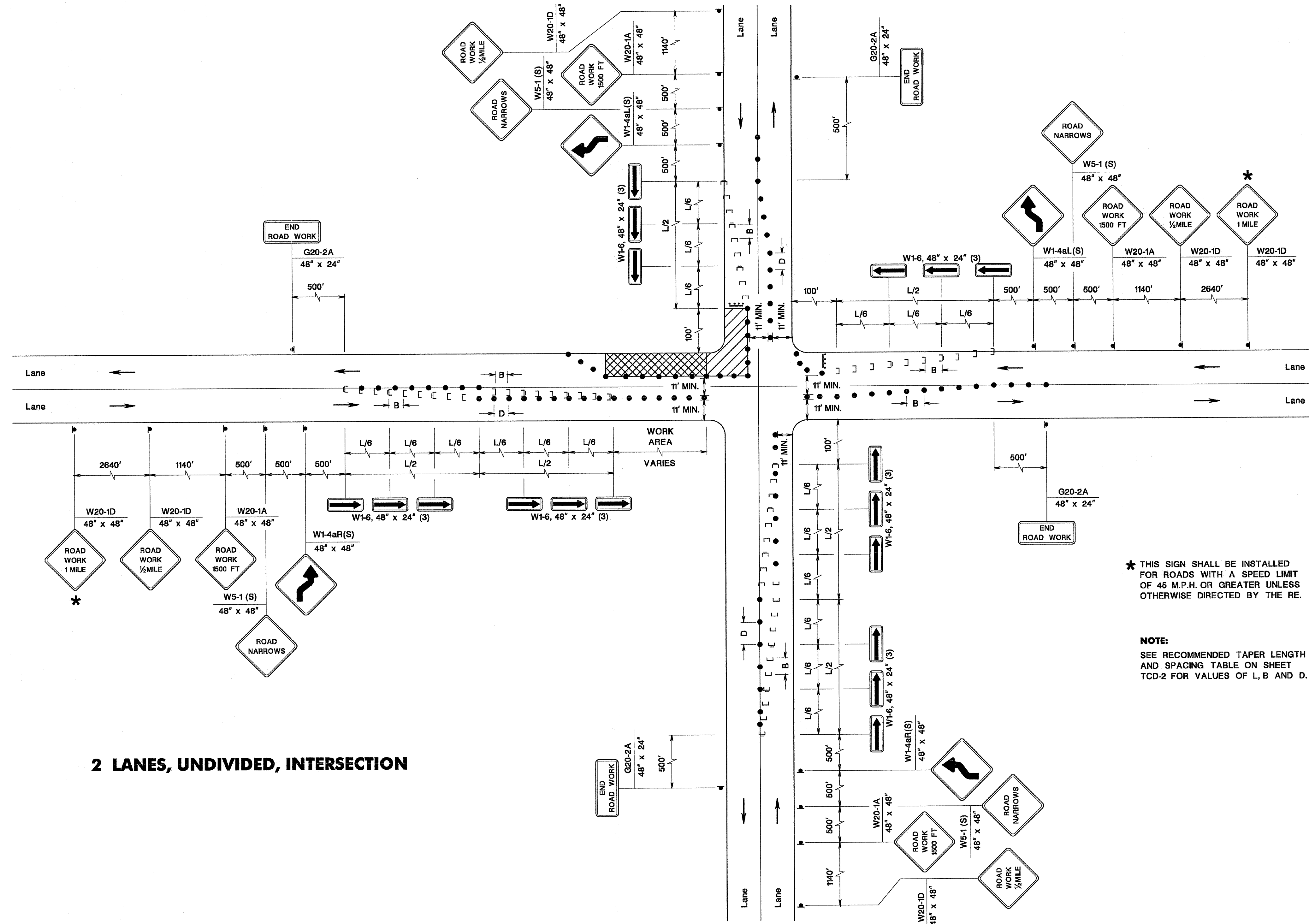
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<b>MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS</b>					
<b>2015 COUNTY AID RESURFACING PROJECT</b>					
UNION COUNTY, NEW JERSEY					
DATE: <b>2-13-15</b>			DATE: <i>[Signature]</i>		
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882			<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321		
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b>					
<small>300 PENNHORN AVENUE, 3RD FLOOR, SECAUOUS, NJ 07094 (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM Certificate of Authorization: 24 GA 28003900</small>					
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY	DWG. NO.
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015
DWG FILE PATH/NAME T:\Transportation-Bridge\Union County\2000X015 - 2015 Road Resurfacing\Drawings\MPT-2000X015-01.dwg					SHEET NO. 43 OF 50





**2 LANES, UNDIVIDED, INTERSECTION**

\* THIS SIGN SHALL BE INSTALLED FOR ROADS WITH A SPEED LIMIT OF 45 M.P.H. OR GREATER UNLESS OTHERWISE DIRECTED BY THE RE.

NOTE:  
SEE RECOMMENDED TAPER LENGTH AND SPACING TABLE ON SHEET TCD-2 FOR VALUES OF L, B AND D.

MPT-6  
MPT-12

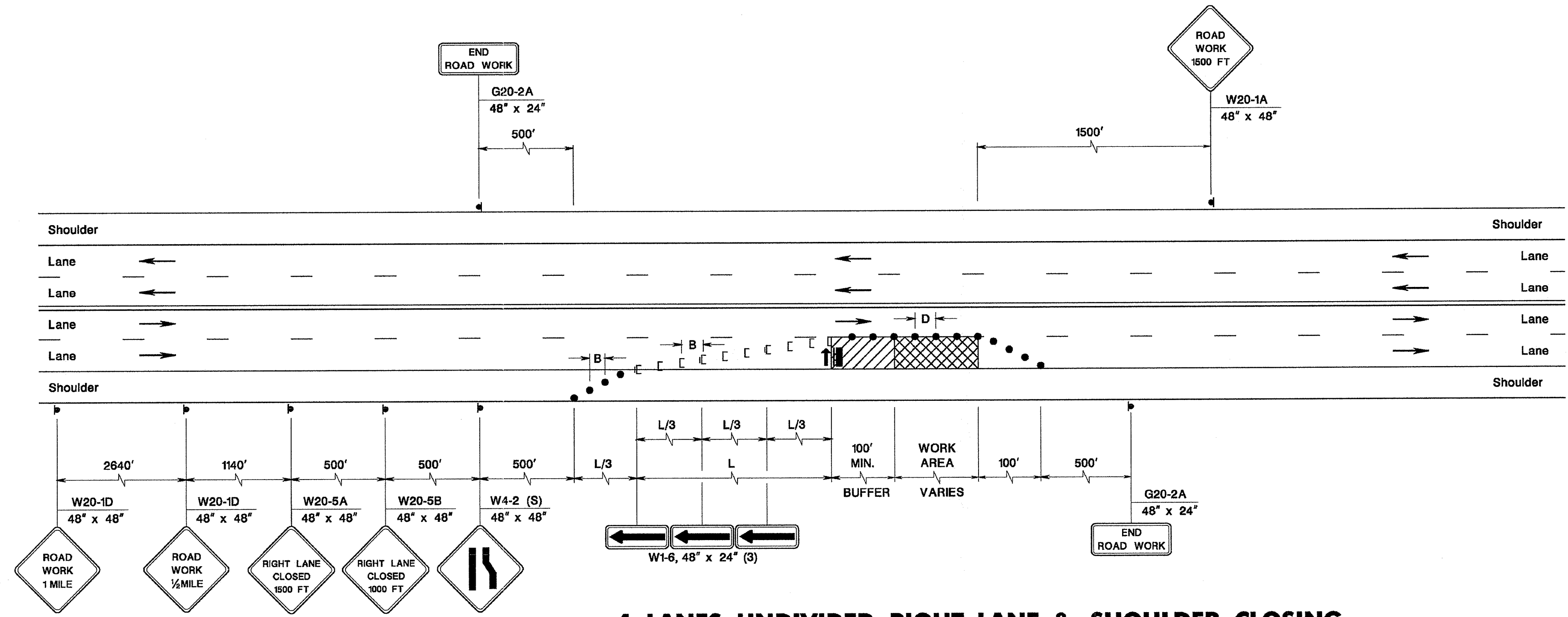
NO.	REVISION	DATE	BY	CHK.	BY
<b>MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS</b> 2015 COUNTY AID RESURFACING PROJECT UNION COUNTY, NEW JERSEY					
DATE: <b>2-13-15</b>			DATE: <b>2-13-15</b>		
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882			<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321		
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AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015
				SHEET NO.	44 OF 50

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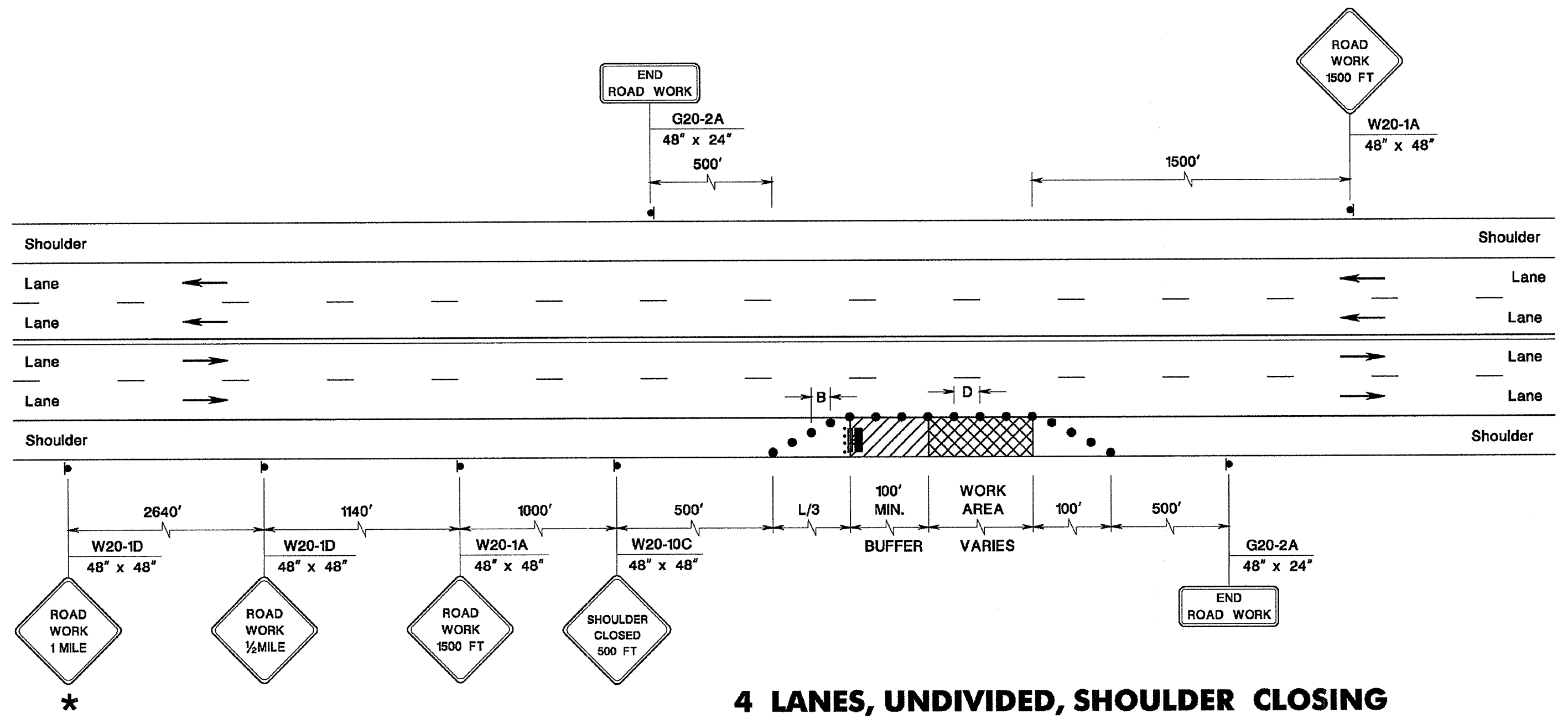
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**4 LANES, UNDIVIDED, RIGHT LANE & SHOULDER CLOSING**



**4 LANES, UNDIVIDED, SHOULDER CLOSING**

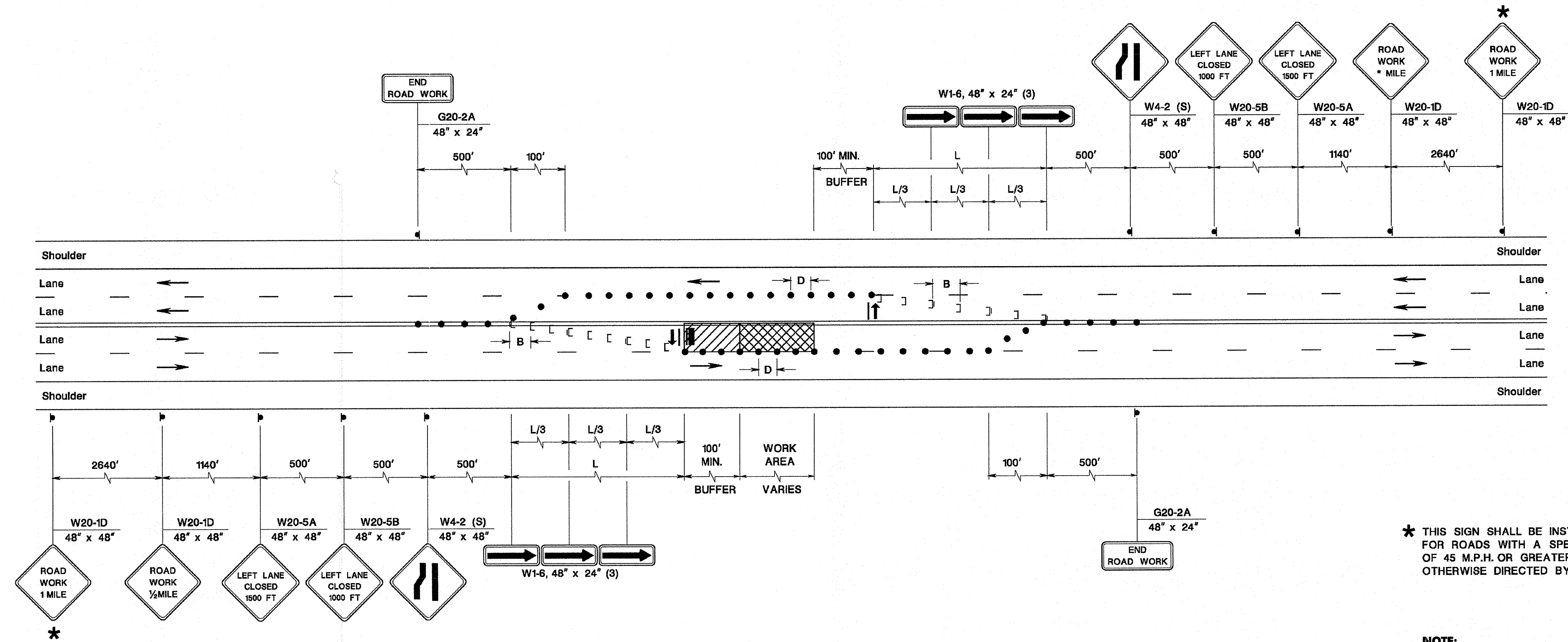
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**NOTE:**  
SEE RECOMMENDED TAPER LENGTH AND SPACING TABLE ON SHEET TCD-2 FOR VALUES OF L, B AND D.

MPT-7  
MPT-12

NO.	REVISION	DATE	BY	CHK.	BY
<b>MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS</b> 2015 COUNTY AID <b>RESURFACING PROJECT</b> UNION COUNTY, NEW JERSEY					
DATE:		DATE: 2-13-15			
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882		<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321			
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b> 300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094 (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RV&A.COM Certificate of Authorization: 24 GA 28003900					
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AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015
DWG FILE PATH/NAME F:\Transportation\Bridge\Union County\2000X015 - 2015 Road Resurfacing\Drawings\MPT-2000X015-01.dwg					SHEET. NO. 45 OF 50





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NOTE: SEE RECOMMENDED TAPER LENGTH AND SPACING TABLE ON SHEET TCD-2 FOR VALUES OF L, B AND D.

**4 LANES, UNDIVIDED, LEFT LANE CLOSING**

NO.	REVISION	DATE	BY	CHK.	BY

MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS  
 2015 COUNTY AID  
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 UNION COUNTY, NEW JERSEY

DATE: 2-13-15  
**RICHARD G. ARANGO**  
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**FRANK J. SENEY JR.**  
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AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015	46 OF 50

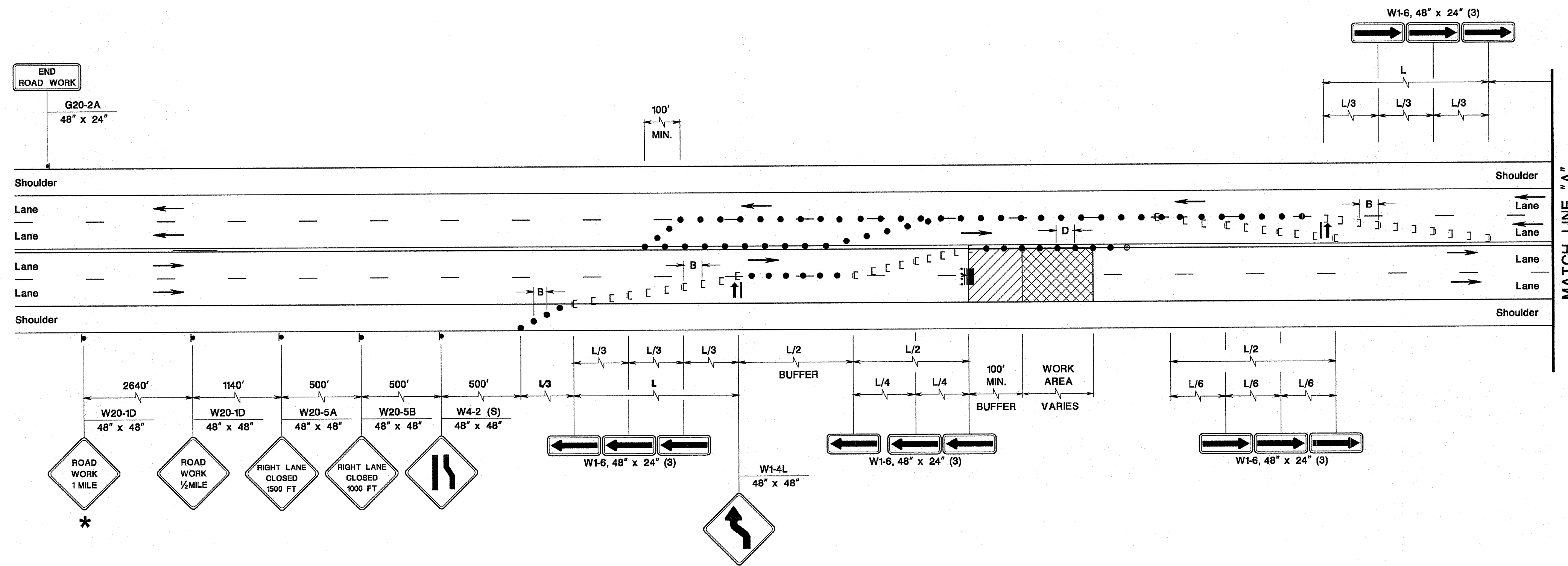
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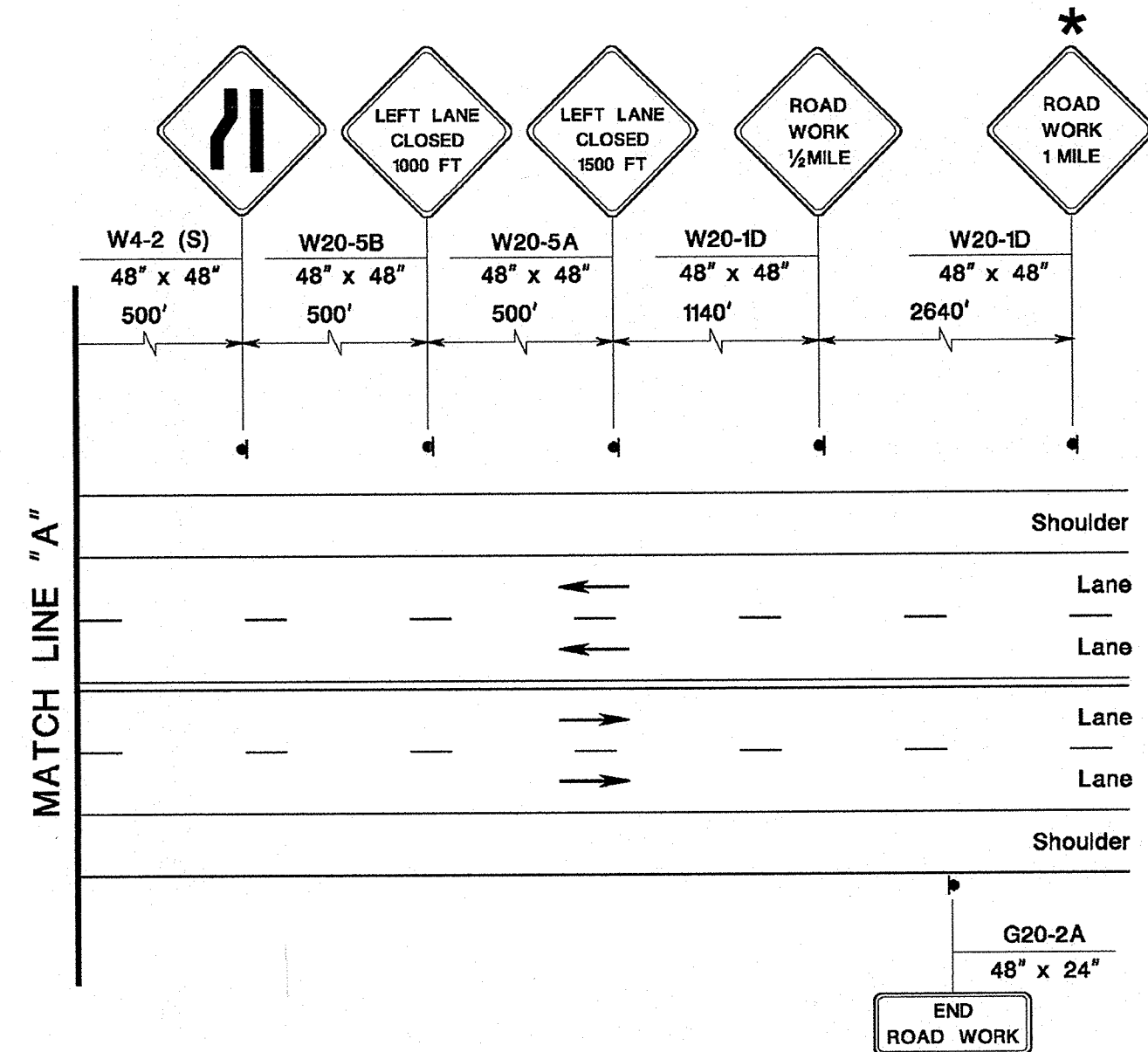
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MPT-8  
 MPT-12





**4 LANES, UNDIVIDED, 2 LANES & SHOULDER ONE DIRECTION CLOSING**



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NOTE:  
SEE RECOMMENDED TAPER LENGTH AND SPACING TABLE ON SHEET TCD-2 FOR VALUES OF L, B AND D.

MPT-9  
MPT-12

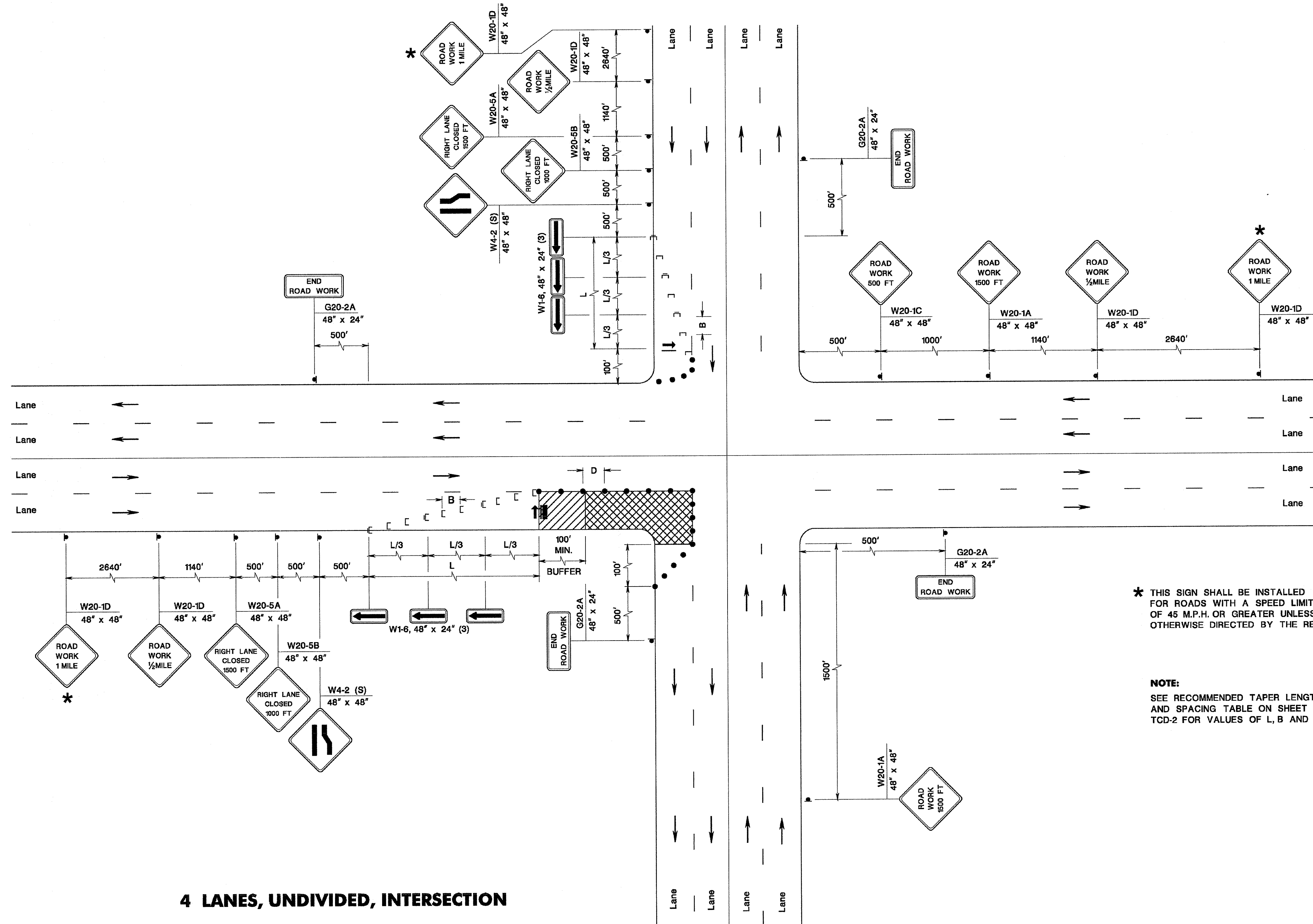
NO.	REVISION	DATE	BY	CHK.	BY
<b>MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS</b> 2015 COUNTY AID RESURFACING PROJECT UNION COUNTY, NEW JERSEY					
DATE:		DATE: 2-13-15			
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882		<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321			
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I:\transportation\bridge\Union County\2000X015 - 2015 Road Resurfacing\Drawings\MPT-2000X015-01.dwg					47 OF 50

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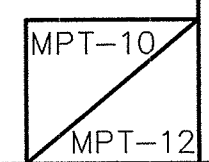
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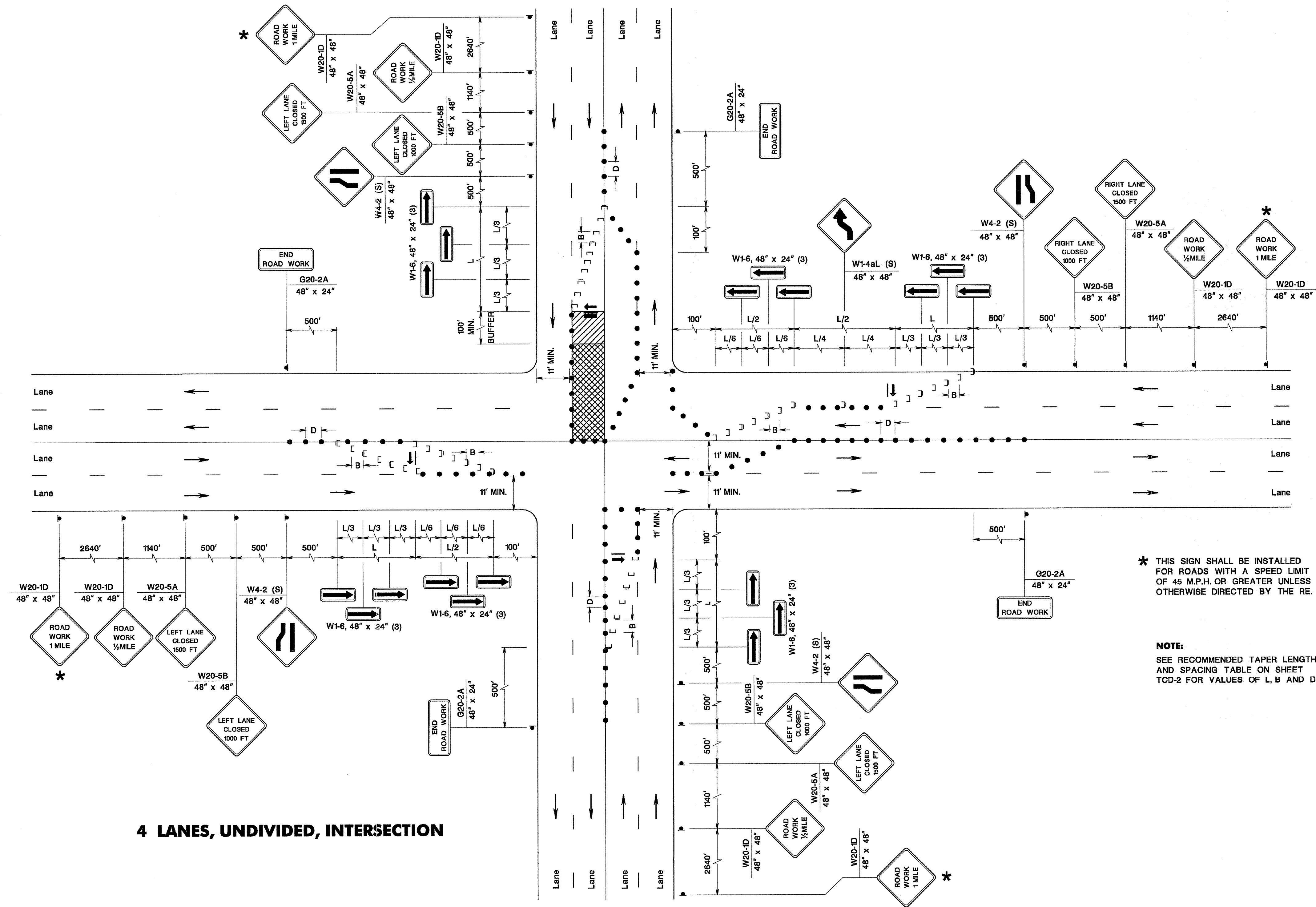
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<b>MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS</b>					
<b>2015 COUNTY AID RESURFACING PROJECT</b>					
UNION COUNTY, NEW JERSEY					
DATE:	<i>[Signature]</i>				DATE:
<b>RICHARD G. ARANGO</b>			<b>FRANK J. SENEY JR.</b>		
NJ PROFESSIONAL ENGINEER LIC. No. 38882			NJ PROFESSIONAL ENGINEER LIC. No. 35321		
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b>					
300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094					
(201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RV&A.COM					
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AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015
SHEET NO.					48 OF 50





**4 LANES, UNDIVIDED, INTERSECTION**

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NO.	REVISION	DATE	BY	CHK.	BY

**MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS**

**2015 COUNTY AID RESURFACING PROJECT**

UNION COUNTY, NEW JERSEY

DATE: 2-13-15

**RICHARD G. ARANGO**  
NJ PROFESSIONAL ENGINEER LIC. No. 38882

**FRANK J. SENEY JR.**  
NJ PROFESSIONAL ENGINEER LIC. No. 35321

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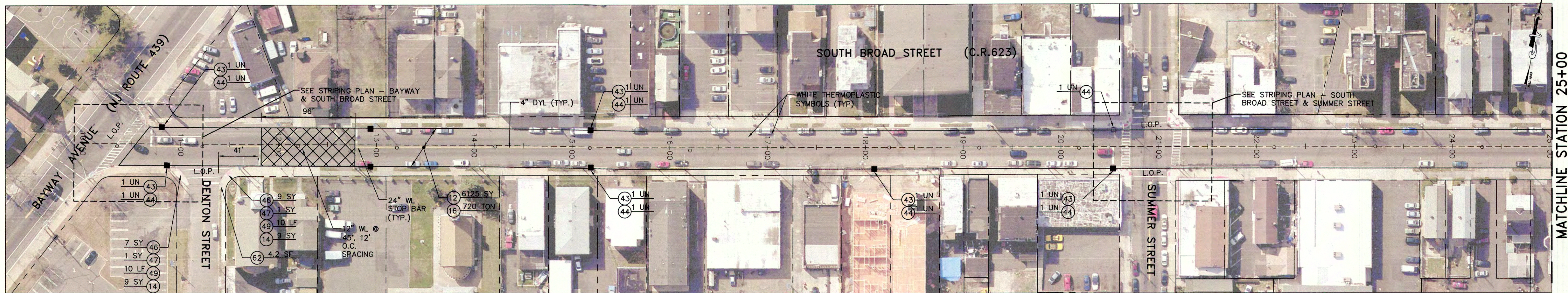
PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

**REMINGTON, VERNICK & ARANGO ENGINEERS**  
300 FENWORTH AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094  
(201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RV&A.COM  
Certificate of Authorization: 24 GA 28003900

SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY	DWG. NO.	SHEET. NO.
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015	49 OF 50

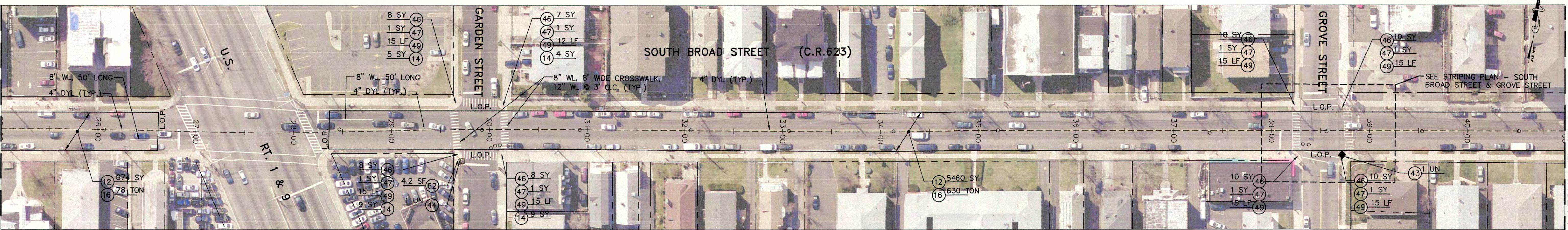
MPT-11  
MPT-12





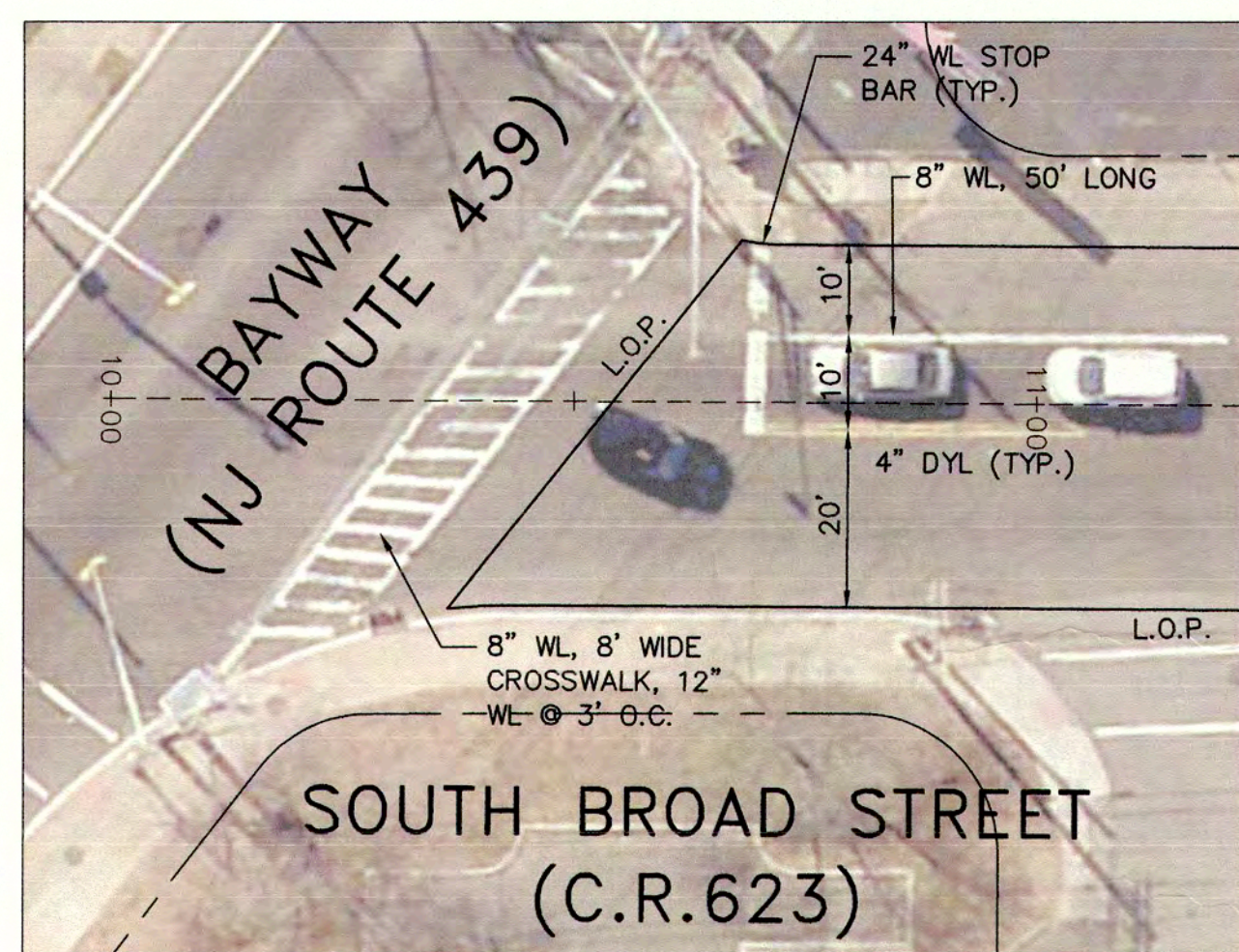
**CONSTRUCTION PLAN**

SCALE: 1" = 50'



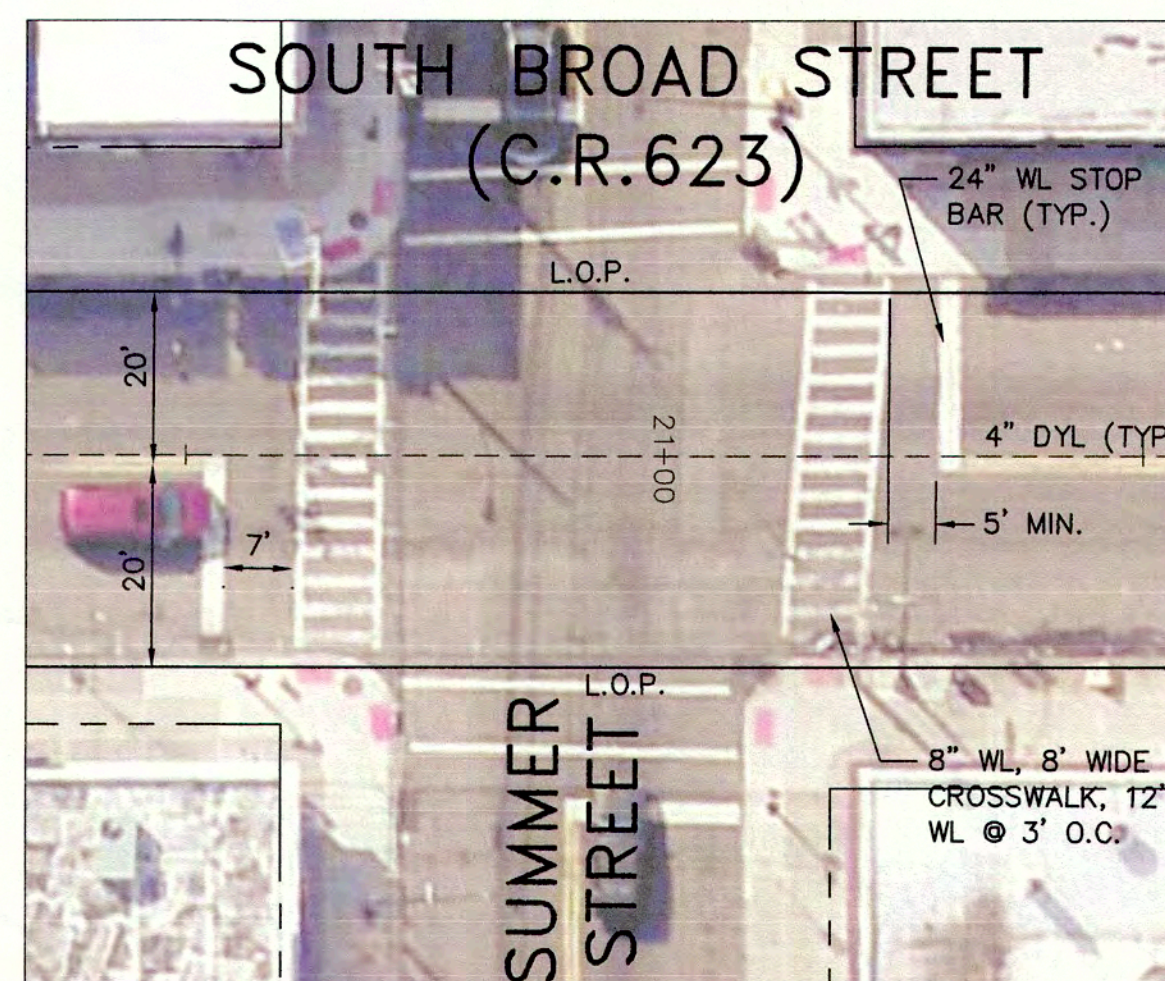
**CONSTRUCTION PLAN**

SCALE: 1" = 50'



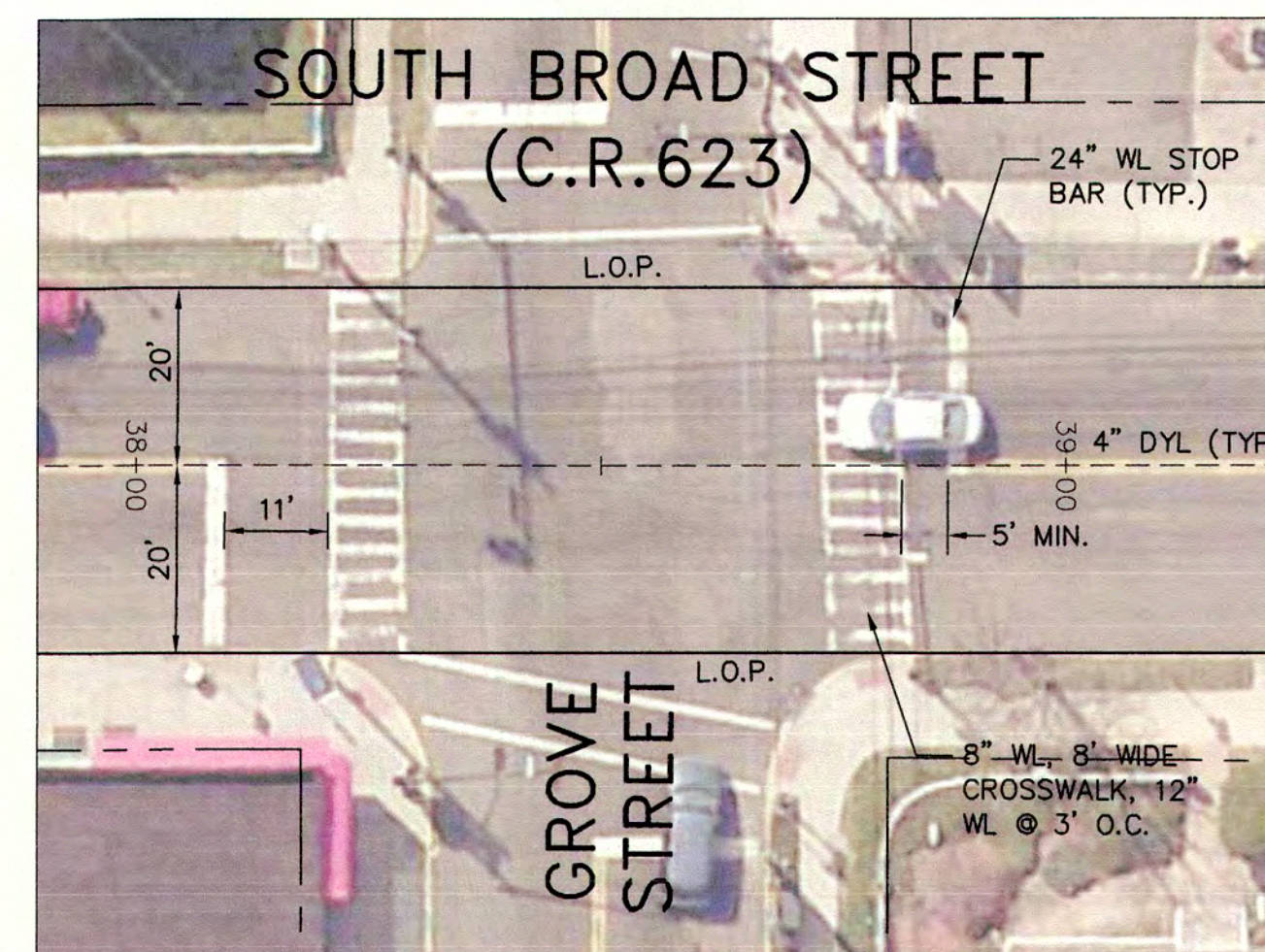
**STRIPING PLAN - BAYWAY & SOUTH BROAD STREET**

SCALE: 1" = 20'



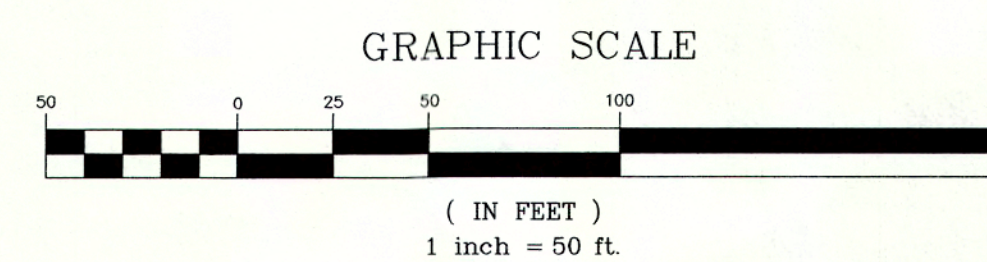
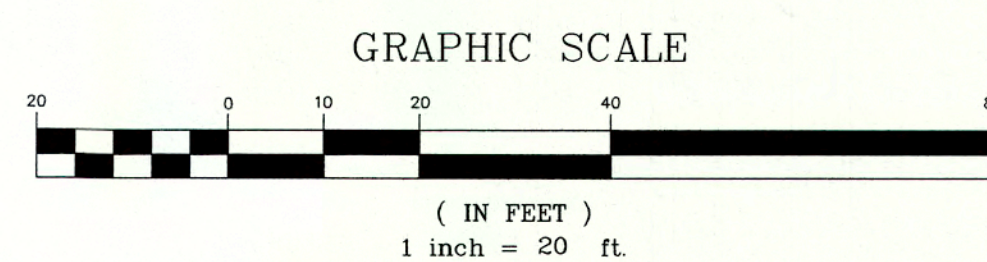
**STRIPING PLAN - SOUTH BROAD STREET  
SUMMER STREET**

SCALE: 1" = 20'



**STRIPING PLAN - SOUTH BROAD STREET & GROVE STREET**

SCALE: 1" = 20'



TO BE CONSTRUCTED				
ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	AS BUILT QUANTITY
12	HMA MILLING, 3" OR LESS	SY	12259	
16	HOT MIX ASPHALT 9.5M64 SURFACE COURSE	TON	1438	
24	RESET EXISTING CASTING	UN	28	
43	BICYCLE SAFE GRATE	UN	7	
44	CURB PIECE	UN	8	
46	CONCRETE SIDEWALK, 4" THICK	SY	87	
47	DETECTABLE WARNING SURFACE	SY	10	
49	10" X 20" CONCRETE VERTICAL CURB	LF	137	
52	TRAFFIC STRIPES, THERMOPLASTIC, 4"	LF	5080	
53	TRAFFIC STRIPES, THERMOPLASTIC, 8"	LF	740	
54	TRAFFIC STRIPES, THERMOPLASTIC, 12"	LF	1493	
55	TRAFFIC STRIPES, THERMOPLASTIC, 24"	LF	140	
56	TRAFFIC MARKINGS, THERMOPLASTIC	SF	60	
57	FPM, MONO-DIRECTIONAL, WHITE LENS	UN	6	
59	FPM, BI-DIRECTIONAL, AMBER LENS	UN	38	
62	ACCESSORY PANEL, TYPE DF	SF	8.4	

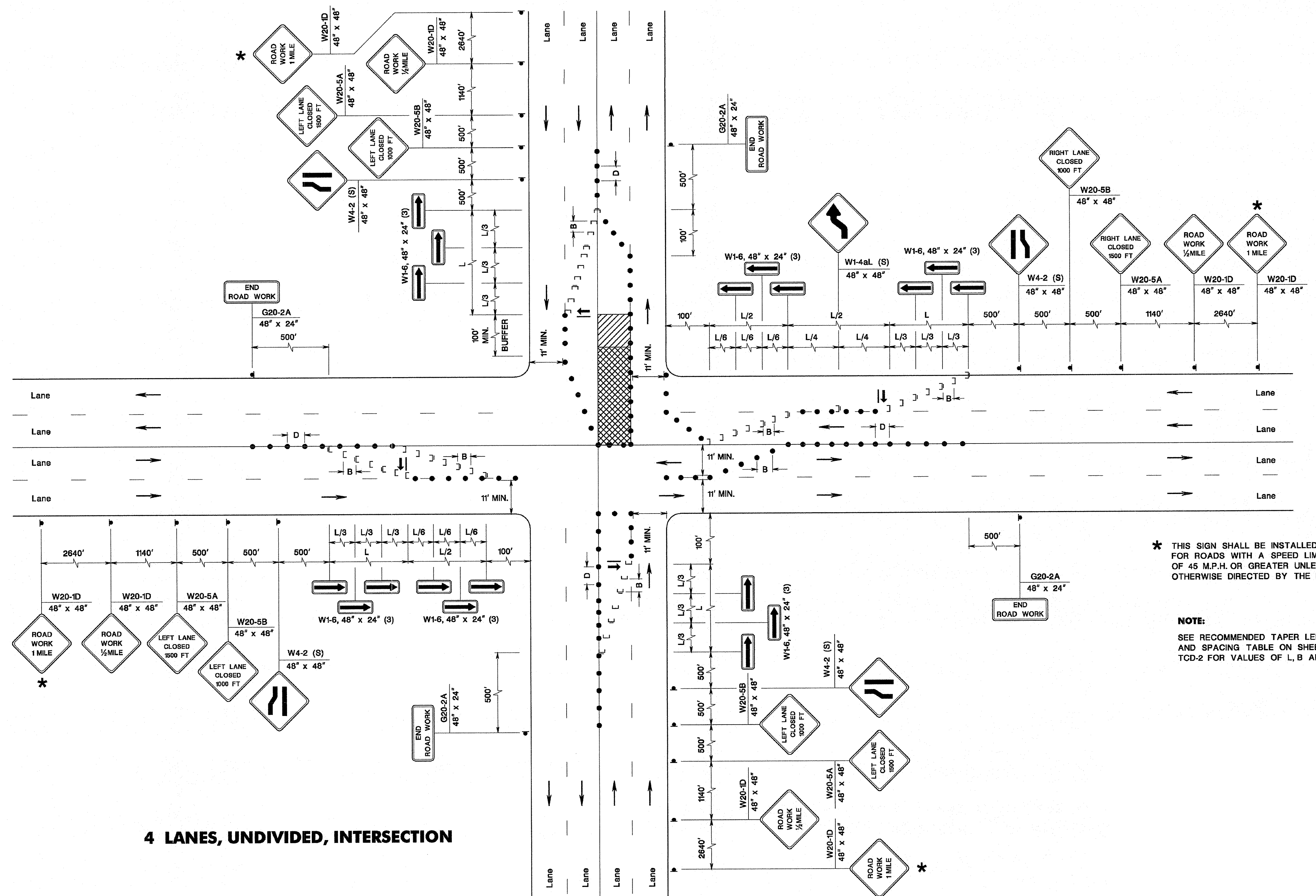
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NO.	REVISION	DATE	BY	CHK.	BY
<b>SOUTH BROAD STREET</b> <b>2015 COUNTY AID</b> <b>RESURFACING PROJECT</b> ELIZABETH CITY, UNION COUNTY, NEW JERSEY					
DATE:		DATE: <i>2-13-15</i>			
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882		<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321			
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b> 300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094 (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM Certificate of Authorization: 24 GA 28003800					
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY	DWG. NO.
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015
DWC FILE PATH/NAME					SHEET. NO.
E:\Transportation\Bridges\Union County\2000X015 - 2015 Road Resurfacing\Drawings\R-2000X015-5 BR0AD.dwg					5 OF 50

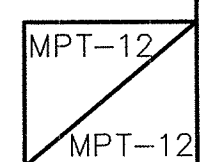




**4 LANES, UNDIVIDED, INTERSECTION**

\* THIS SIGN SHALL BE INSTALLED FOR ROADS WITH A SPEED LIMIT OF 45 M.P.H. OR GREATER UNLESS OTHERWISE DIRECTED BY THE RE.

**NOTE:**  
SEE RECOMMENDED TAPER LENGTH AND SPACING TABLE ON SHEET TCD-2 FOR VALUES OF L, B AND D.



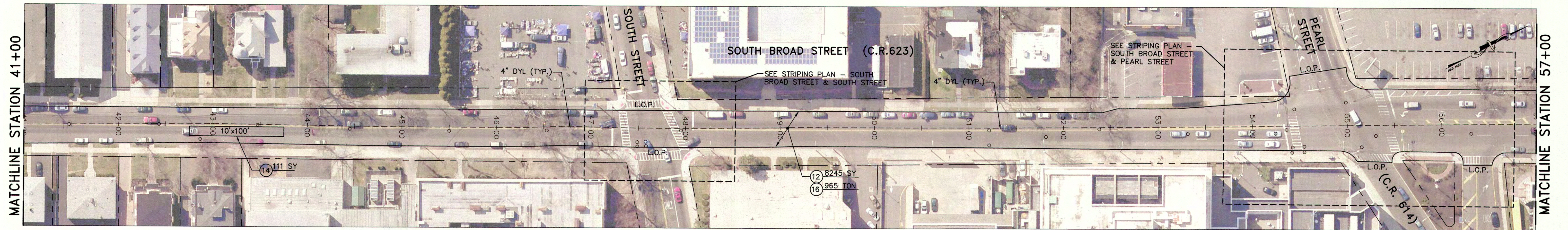
NO.	REVISION	DATE	BY	CHK.	BY
<b>MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS</b> 2015 COUNTY AID RESURFACING PROJECT UNION COUNTY, NEW JERSEY					
DATE:		DATE: 12-13-15			
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882		<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321			
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b> 300 PENNHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094 (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RV&A.COM Certificate of Authorization: 24 GA 28003800					
SCALE	DATE	DRAWN BY	DSGN. BY	CHKD. BY	DWG. NO.
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015
SHEET. NO. 50 OF 50					
DWG FILE PATH/NAME: \\Transportation_Bridge\Union County\2000X015 - 2015 Road Resurfacing\Drawings\MPT-2000X015-01.dwg					

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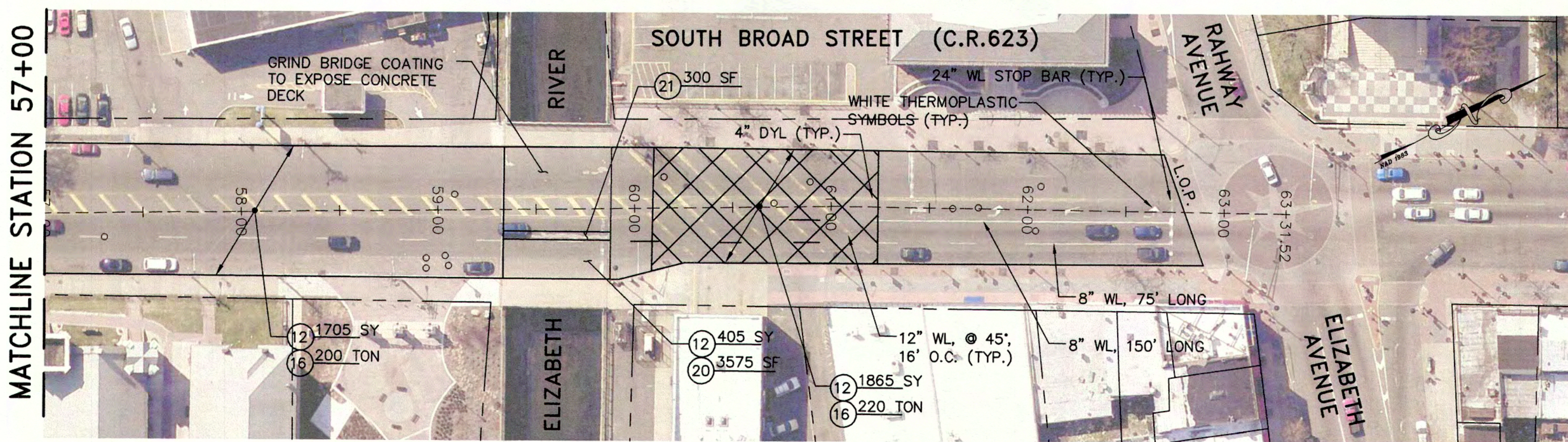
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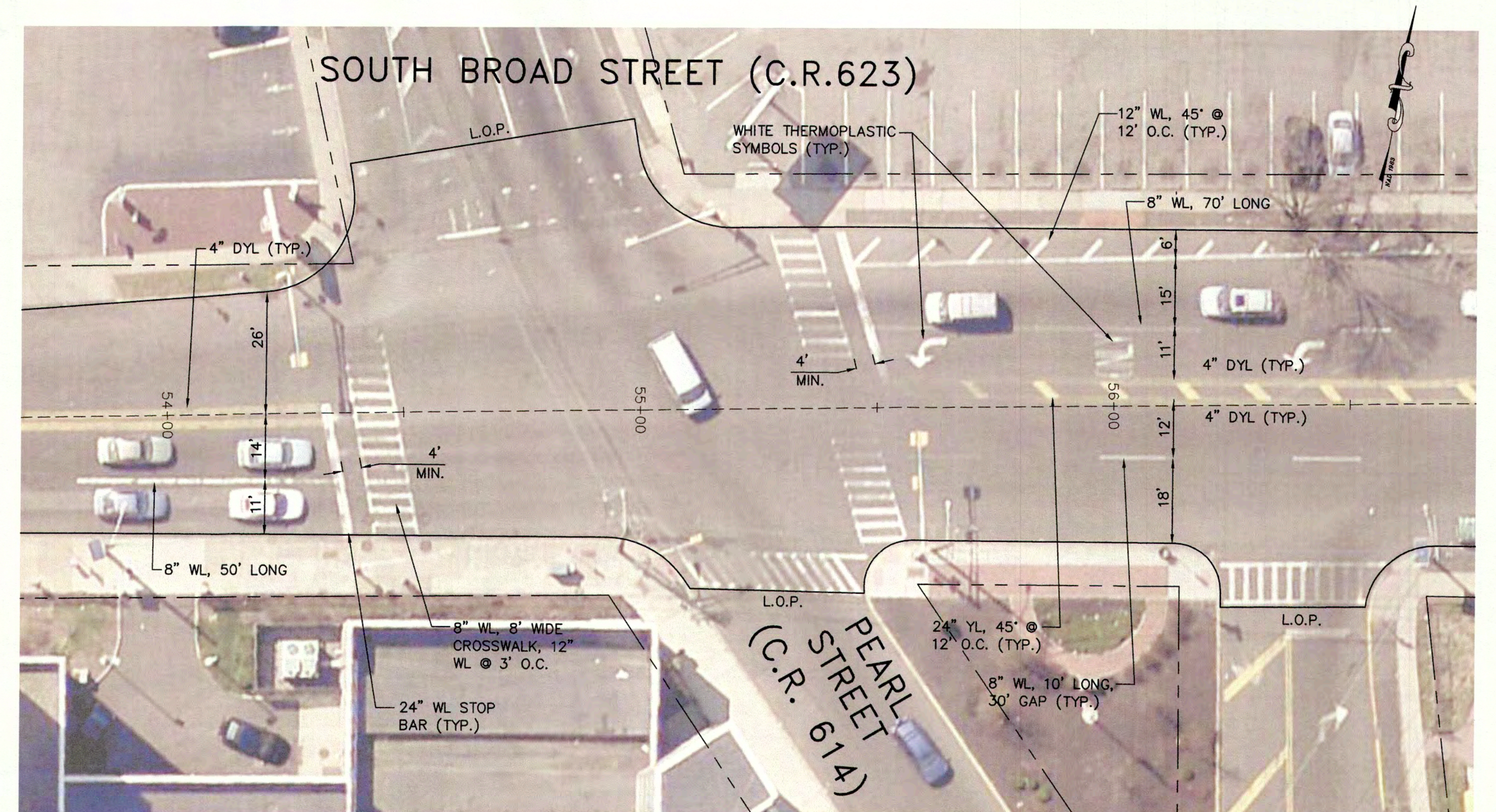




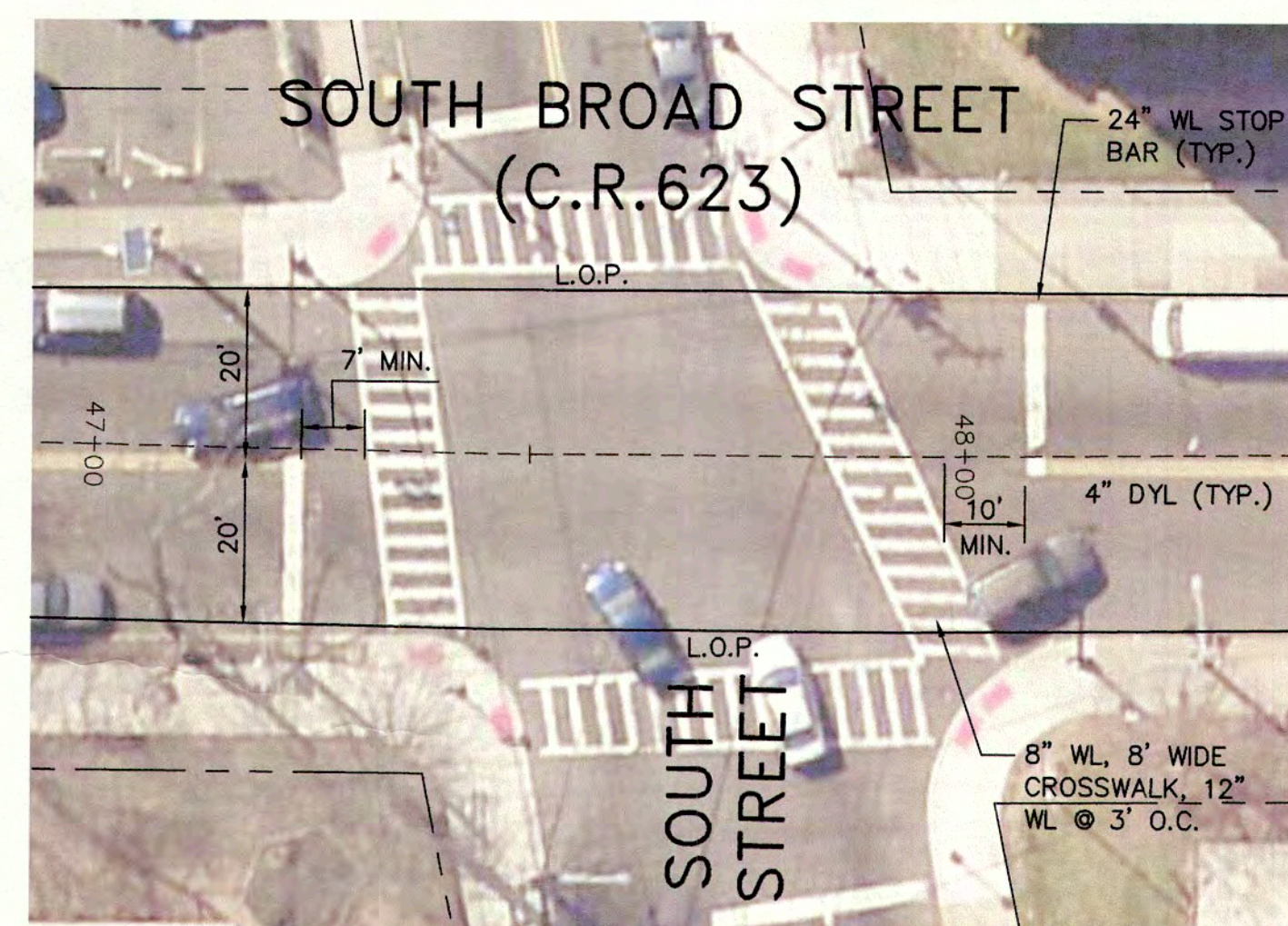
**CONSTRUCTION PLAN**  
SCALE: 1" = 50'



**CONSTRUCTION PLAN**  
SCALE: 1" = 50'

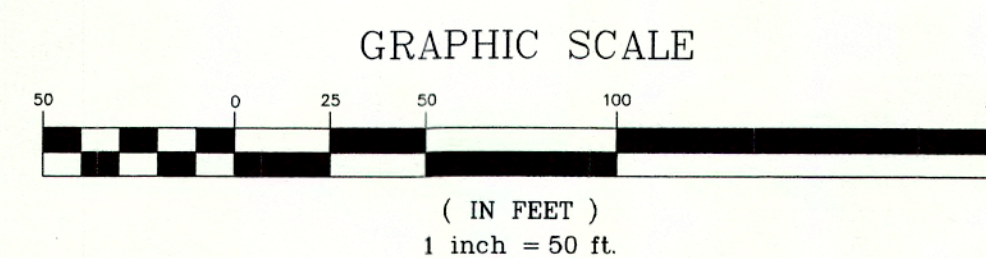
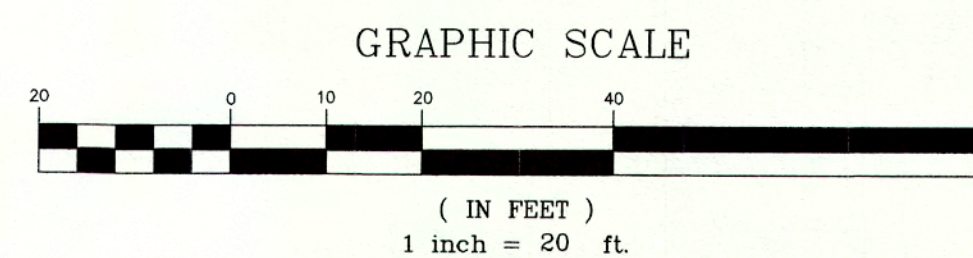


**STRIPING PLAN - SOUTH BROAD STREET & PEARL STREET**  
SCALE: 1" = 20'



**STRIPING PLAN - SOUTH BROAD STREET & SOUTH STREET**  
SCALE: 1" = 20'

TO BE CONSTRUCTED				
ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	AS BUILT QUANTITY
12	HMA MILLING, 3" OR LESS	SY	11815	
14	HOT MIX ASPHALT PAVEMENT REPAIR	SY	111	
16	HOT MIX ASPHALT 9.5M64 SURFACE COURSE	TON	1385	
20	SAWCUT GROOVED DECK SURFACE	SF	3575	
21	REPAIR OF CONCRETE DECK, TYPE B	SF	300	
24	RESET EXISTING CASTING	UN	45	
44	CURB PIECE	UN	1	
52	TRAFFIC STRIPES, THERMOPLASTIC, 4"	LF	5860	
53	TRAFFIC STRIPES, THERMOPLASTIC, 8"	LF	1275	
54	TRAFFIC STRIPES, THERMOPLASTIC, 12"	LF	1732	
55	TRAFFIC STRIPES, THERMOPLASTIC, 24"	LF	658	
56	TRAFFIC MARKINGS, THERMOPLASTIC	SF	120	
57	RPM, MONO-DIRECTIONAL, WHITE LENS	UN	22	
58	RPM, MONO-DIRECTIONAL, AMBER LENS	UN	16	
59	RPM, BI-DIRECTIONAL, AMBER LENS	UN	17	



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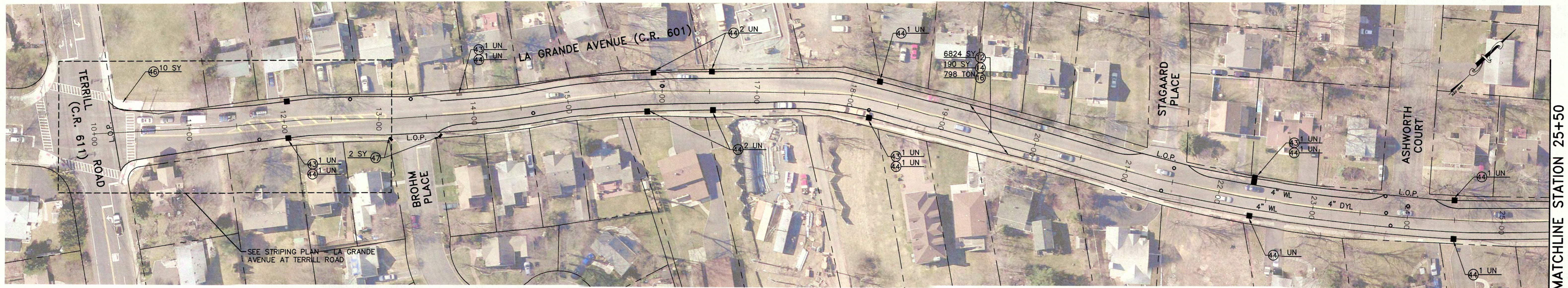
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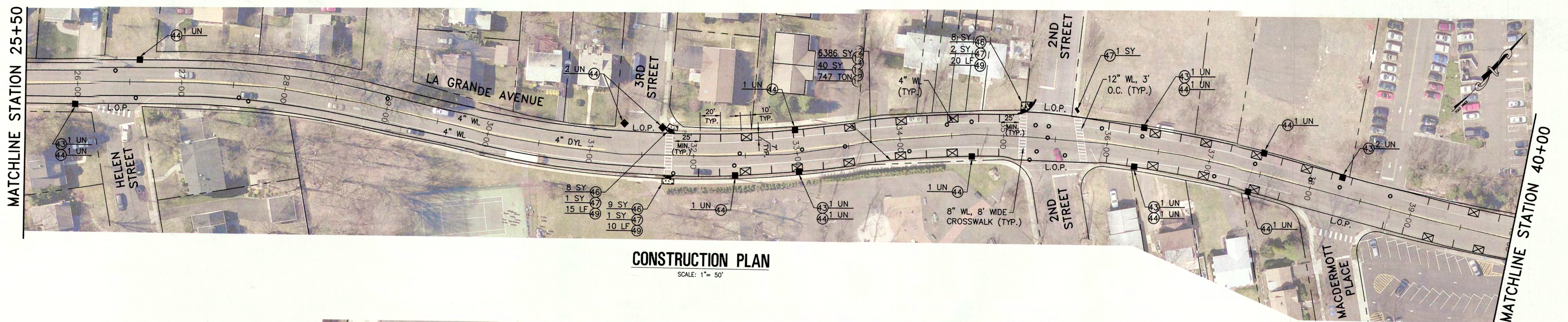
NO.	REVISION	DATE	BY	CHK.	BY
<b>SOUTH BROAD STREET</b>					
<b>2015 COUNTY AID</b>					
<b>RESURFACING PROJECT</b>					
ELIZABETH CITY, UNION COUNTY, NEW JERSEY					
DATE:		DATE: <i>2-13-15</i>			
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882		<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321			
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b>					
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Certificate of Authorization: 24 GA 28003800					
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	2/2015	P.J.P.	D.M.M.	F.J.S.	2000X015
AS NOTED					6 OF 50
Dwg FILE PATH/NAME: \\Transportation\Bridge\Union County\2000X015 - 2015 Road Resurfacing\Drawings\R-2000X015-S BROAD.dwg					

CP-6  
CP-31

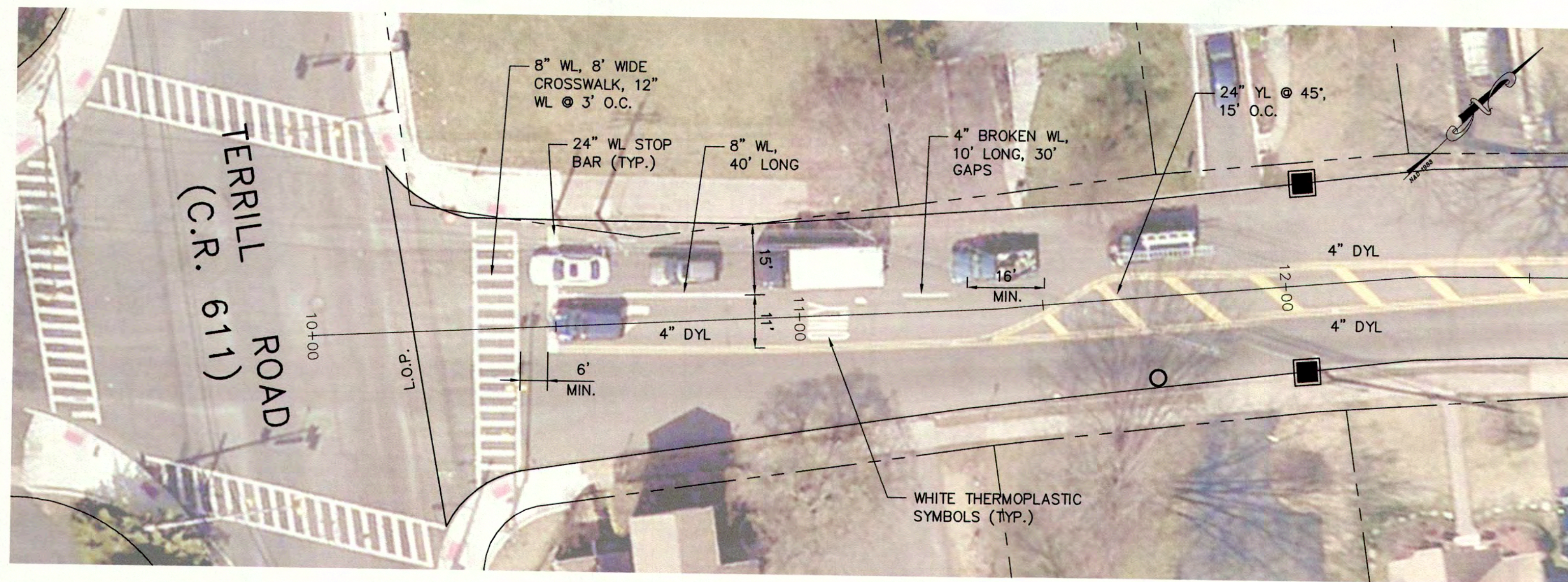




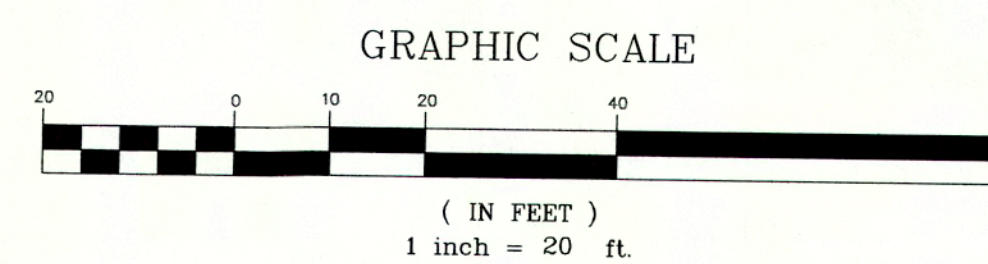
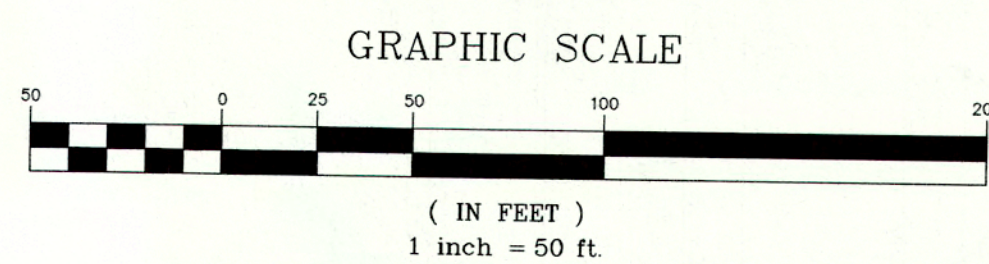
**CONSTRUCTION PLAN**  
SCALE: 1" = 50'



**CONSTRUCTION PLAN**  
SCALE: 1" = 50'



**STRIPING PLAN - LA GRANDE AVENUE AT TERRILL ROAD**  
SCALE: 1" = 20'



TO BE CONSTRUCTED				
ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	AS BUILT QUANTITY
12	HMA MILLING, 3" OR LESS	SY	13210	
14	HOT MIX ASPHALT PAVEMENT REPAIR	SY	230	
16	HOT MIX ASPHALT 9.5M64 SURFACE COURSE	TON	1545	
24	RESET EXISTING CASTING	UN	55	
43	BICYCLE SAFE GRATE	UN	11	
44	CURB PIECE	UN	24	
46	CONCRETE SIDEWALK, 4" THICK	SY	35	
47	DETECTABLE WARNING SURFACE	SY	5	
49	10' X 20' CONCRETE VERTICAL CURB	LF	45	
52	TRAFFIC STRIPES, THERMOPLASTIC, 4"	LF	8199	
53	TRAFFIC STRIPES, THERMOPLASTIC, 8"	LF	380	
54	TRAFFIC STRIPES, THERMOPLASTIC, 12"	LF	456	
55	TRAFFIC STRIPES, THERMOPLASTIC, 24"	LF	126	
56	TRAFFIC MARKINGS, THERMOPLASTIC	SF	35	
57	FPM, MONO-DIRECTIONAL, WHITE LENS	UN	3	
58	FPM, MONO-DIRECTIONAL, AMBER LENS	UN	9	
59	FPM, BI-DIRECTIONAL, AMBER LENS	UN	66	
61	STREET NAME SIGN, TYPE DF, BREAKAWAY SUPPORT	SF	29.4	
67	TOPSOILING, 4" THICK	SY	20	
68	FERTILIZING AND SEEDING, TYPE A-3	SY	20	

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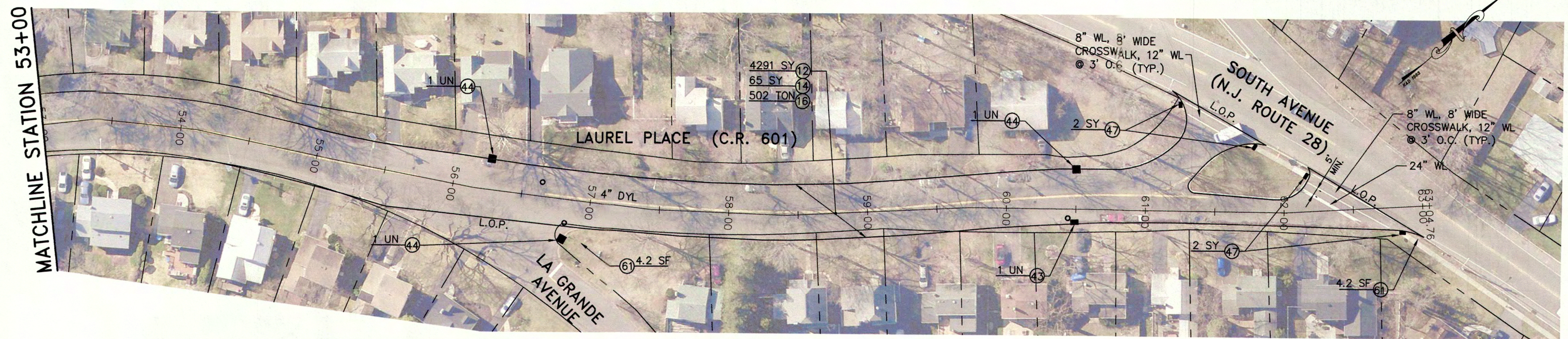
NO.	REVISION	DATE	BY	CHK. BY
<b>LA GRANDE AVENUE / LAUREL PLACE</b>				
<b>2015 COUNTY AID RESURFACING PROJECT</b>				
FANWOOD BOROUGH, UNION COUNTY, NEW JERSEY				
DATE:	<i>[Signature]</i>		DATE:	2-13-15
<b>RICHARD G. ARANGO</b> NJ PROFESSIONAL ENGINEER LIC. No. 38882		<b>FRANK J. SENEY JR.</b> NJ PROFESSIONAL ENGINEER LIC. No. 35321		
<b>REMINGTON, VERNICK &amp; ARANGO ENGINEERS</b>				
300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094 (201) 624-2137, FAX (201) 624-2136, WEB SITE ADDRESS: WWW.RVE.COM Certificate of Authorization: 24 GA 28003800				
SCALE	DATE	DRAWN BY	DSGN. BY	CHK'D. BY
AS NOTED	2/2015	P.J.P.	D.M.M.	F.J.S.
DWG. NO.	2000X015	SHEET. NO.		7 OF 50
D:\Transportation\Bridge\Union County\2000X015 - 2015 Road Resurfacing\Drawings\VR-2000X015-LA GRANDE.dwg				





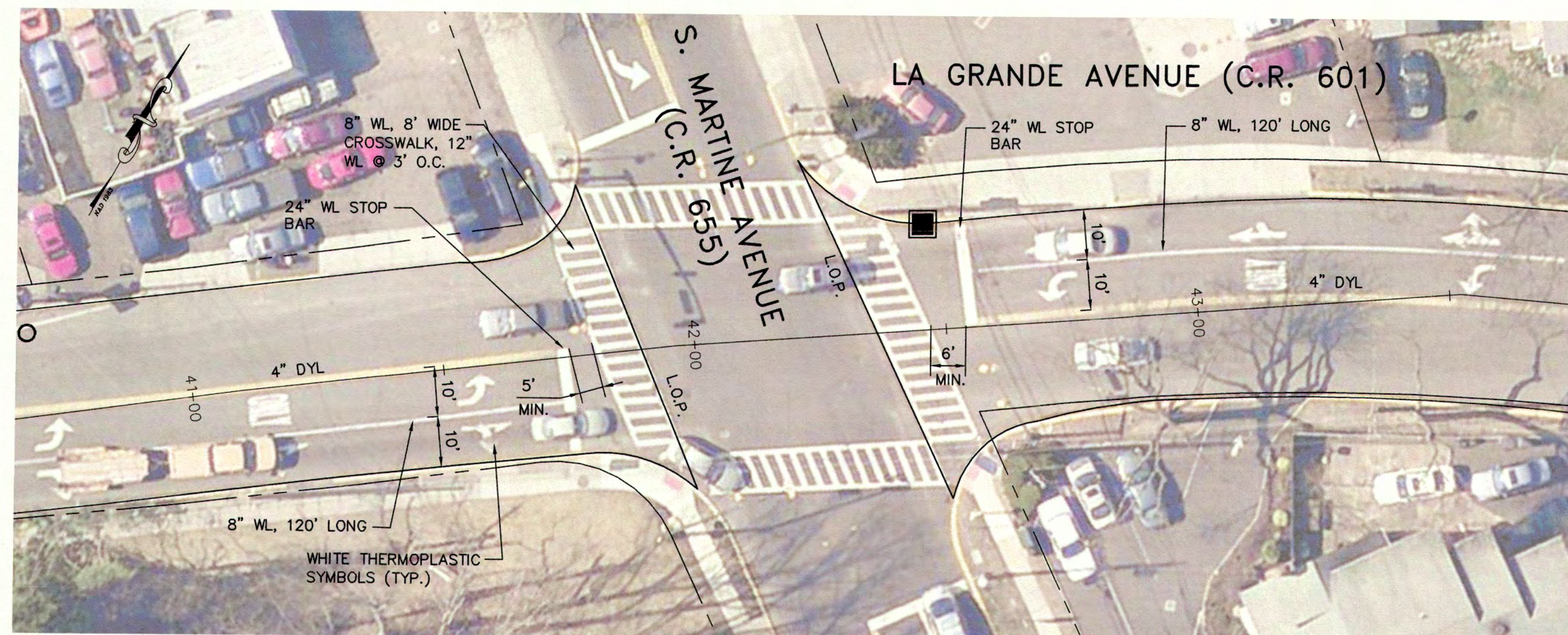
**CONSTRUCTION PLAN**

SCALE: 1" = 50'



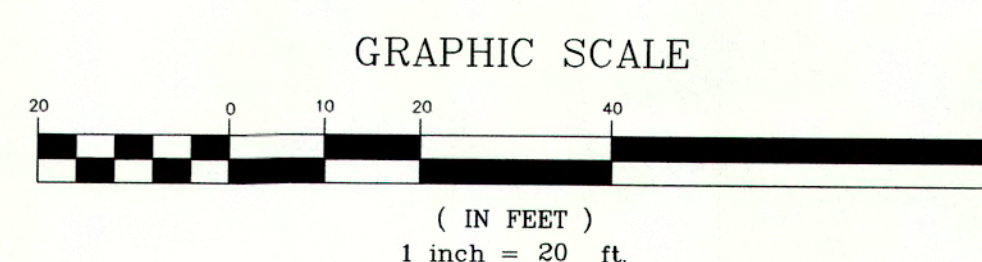
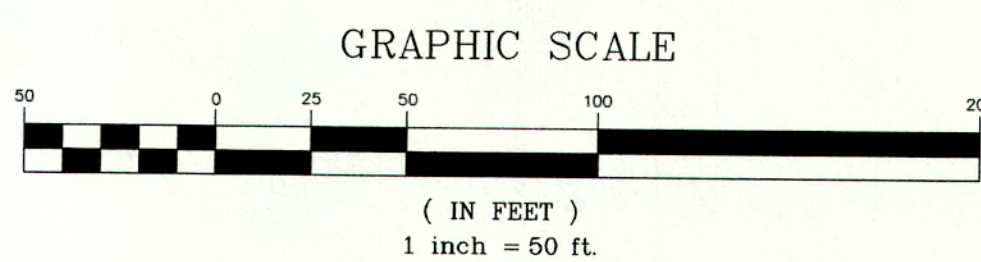
**CONSTRUCTION PLAN**

SCALE: 1" = 50'



**STRIPING PLAN - LA GRANDE AVENUE AT S. MARTIN AVENUE**

SCALE: 1" = 20'



CP-8  
CP-31

TO BE CONSTRUCTED				
ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	AS BUILT QUANTITY
12	HMA MILLING, 3" OR LESS	SY	8980	
14	HOT MIX ASPHALT PAVEMENT REPAIR	SY	95	
16	HOT MIX ASPHALT 9.5M64 SURFACE COURSE	TON	1052	
24	RESET EXISTING CASTING	UN	12	
43	BICYCLE SAFE GRATE	UN	1	
44	CURB PIECE	UN	7	
46	CONCRETE SIDEWALK, 4" THICK	SY	19	
47	DETECTABLE WARNING SURFACE	SY	8	
49	10" X 20" CONCRETE VERTICAL CURB	LF	20	
52	TRAFFIC STRIPES, THERMOPLASTIC, 4"	LF	3660	
53	TRAFFIC STRIPES, THERMOPLASTIC, 8"	LF	800	
54	TRAFFIC STRIPES, THERMOPLASTIC, 12"	LF	744	
55	TRAFFIC STRIPES, THERMOPLASTIC, 24"	LF	40	
56	TRAFFIC MARKINGS, THERMOPLASTIC	SF	250	
57	RPM, MONO-DIRECTIONAL, WHITE LENS	UN	6	
59	RPM, BI-DIRECTIONAL, AMBER LENS	UN	50	
61	STREET NAME SIGN, TYPE DF, BREAKAWAY SUPPORT	SF	16.8	
67	TOPSOILING, 4" THICK	SY	10	
68	FERTILIZING AND SEEDING, TYPE A-3	SY	10	

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NO.	REVISION	DATE	BY	CHK. BY
<b>LA GRANDE AVENUE / LAUREL PLACE</b>				
<b>2015 COUNTY AID RESURFACING PROJECT</b>				
FANWOOD BOROUGH, UNION COUNTY, NEW JERSEY				
DATE:	DATE: 2-13-15			
<b>RICHARD G. ARANGO</b>	<b>FRANK J. SENEY JR.</b>			
NJ PROFESSIONAL ENGINEER LIC. No. 38882	NJ PROFESSIONAL ENGINEER LIC. No. 35321			
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300 PENHORN AVENUE, 3RD FLOOR, SECAUCUS, NJ 07094				
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Certificate of Authorization: 24 CA 28003800				
SCALE	DATE	DRAWN BY	DSGN. BY	CHK. D. BY
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DWG. NO.	2000X015	SHEET. NO.		8 OF 50
DWG FILE PATH/NAME: T:\Transportation_Bridge\Union County\2000X015 - 2015 Road Resurfacing\Drawings\R-2000X015-LA GRANDE.dwg				



