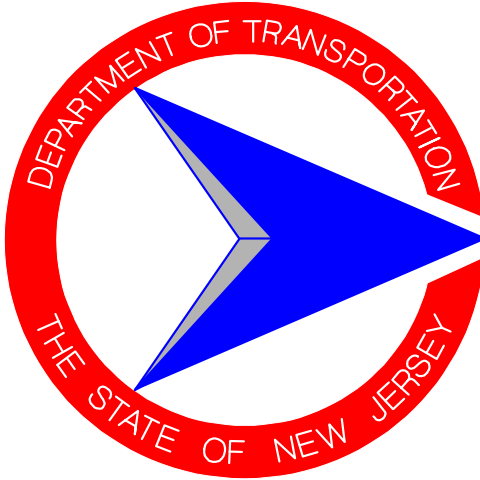


# **State of New Jersey Department of Transportation**



## **Special Provisions For Federal Aid Projects**

**FY 2022 Edition  
Revision X: July 2022**

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

## **SPECIAL PROVISIONS**

### **AUTHORIZATION OF CONTRACT**

The contract for this project is authorized by the provisions of local public contracts law, NJSA 40A: 11-1 et seq and Title 23 of the United States Code - Highways.

### **SPECIFICATIONS TO BE USED**

The 2019 Standard Specifications for Road and Bridge Construction, of the New Jersey Department of Transportation (Department) as amended herein will govern the construction of this Project and the execution of the Contract.

These Special Provisions consist of the following:

Pages 1 to \_\_\_ inclusive.

General wage determinations issued under Davis-Bacon and related acts, published by US Department of Labor, may be obtained from the Wage Determinations online website at [SAM.gov | Wage Determinations](https://sam.gov) Select state, county and construction type heading: HIGHWAY where the Project is to be performed then click Search.

Pay the prevailing wage rates determined by the United States Secretary of Labor and the New Jersey Department of Labor and Workforce Development. 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 and Workforce Development, 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 website at [https://www.nj.gov/labor/wagehour/wagerate/prevailing\\_wage\\_determinations.html](https://www.nj.gov/labor/wagehour/wagerate/prevailing_wage_determinations.html). The State wage rates in effect at the time of award are part of this Contract, pursuant to Chapter 150, Laws of 1963 (N.J.S.A. 34:11-56.25 et seq.)

If an employee of the Contractor or subcontractor has been paid a rate of wages less than the prevailing wage, the Department may suspend the Work, and declare the Contractor in default.

The NJDOT must report all suspected or reported violations to the federal agency providing the funding for the project.

Contractor's compliance is required with the Copeland "Anti-Kickback" Act, (40 U.S.C. 3145), as supplemented by the Department of Labor regulations (29 CFR Part 3, "Contractors and subcontractors on Public Building or Public Work Financed in Whole or In Part by Loans or Grants from the United States"). Each contractor or subcontractor is prohibited from inducing by any means, any person employed in the construction, completion or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The NJDOT must report all suspected or reported violations to the federal agency providing the funding for the project.

The following information is located at the end of these Special Provisions:

1. Disadvantaged Business Enterprise Utilization. (Federal Aid Project Attachment 1)
1. Emerging Small Business Enterprise Utilization. (Federal Aid Project Attachment 1)
2. Specific Equal Employment Opportunity Responsibilities on NJDOT Federal Aid Projects. (Federal Aid Project Attachment 2)
3. Requirements for Affirmative Action to Ensure Equal Employment Opportunity on NJDOT Federal Aid Projects. (Federal Aid Project Attachment 3)
4. Federal Equal Employment Opportunity Contract Specifications for NJDOT Federal Aid Projects. (Federal Aid Project Attachment 4)
5. State of New Jersey Mandatory Equal Employment Opportunity Language on NJDOT Federal Aid Projects. (Federal Aid Project Attachment 5)
6. Investigating, Reporting and Resolving Employment Discrimination and Sexual Harassment Complaints on NJDOT Federal Aid Projects. (Federal Aid Project Attachment 6)

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7. Payroll Requirements for NJDOT Federal Aid Projects. (Federal Aid Project Attachment 7)
8. FHWA-1273 Required Contract Provisions, Federal Aid Construction Contracts. (Federal Aid Project Attachment 8)
9. State Mandatory Addendum to FHWA 1273 Required Contract Provision, Federal Aid Construction Contracts as Amended or Supplemented. (Federal Aid Project Attachment 9)
10. Federal Mandatory Equal Opportunity Language on Federal Aid Projects. (Federal Aid Project Attachment 10)
11. Byrd Anti-Lobbying Certification. (Federal Aid Project Attachment 11)

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 (DC-2891 and 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, Division of Purchase & Property, Contract Compliance & Administration, Trenton NJ 08625 (609-292-5400).

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 "measurement and 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 2019 Standard Specifications unless otherwise noted.

Whenever reference to page number is made, it is construed to refer to the 2019 Standard Specifications unless otherwise noted.

Henceforth in this supplementary specification whenever reference to the State, Department, ME, RE or Inspector is made, it is construed to mean the particular municipality or county executing this contract.

Whenever reference to Title 27 is made, it is construed to mean Title 40.

## **DIVISION 100 – GENERAL PROVISIONS**

### **SECTION 101 – GENERAL INFORMATION**

#### **101.01 INTRODUCTION**

THE FOLLOWING IS ADDED:

Pursuant to N.J.S.A. 27:1B-21.6 and USC (United States Code) Title 23 Section 115, the Department intends to enter into a contract for the advancement of the Project. However, sufficient funds for the Project may not have been appropriated, and only amounts appropriated by law may be expended. Payment under the Contract is restricted to the amounts appropriated for a fiscal year (FY).

Governing bodies have no legal obligation to make such an appropriation. There is no guarantee that additional funds will be appropriated. Failure by governing bodies to appropriate additional funds will not constitute a default under, or a breach of, the Contract. However, if the Department terminates the Contract or suspends work because funds have not been appropriated, the parties to the Contract will retain their rights for suspension and termination as provided in 108.13, 108.14, and 108.15; except as indicated below.

Do not expend or cause to be expended any sum in excess of the amount allocated in the current fiscal year's Capital Program (as specified below). The Department will notify the Contractor when additional funding has been appropriated. Any expenditure by the Contractor which exceeds the amount appropriated is at the Contractor's risk and the Contractor waives its right to recover costs in excess of that appropriated amount.

#### **101.03 TERMS**

THE FOLLOWING TERM IS ADDED:

**Department** Shall be defined as the Contracting agency.

THE FOLLOWING TERM IS ADDED:

**Full Traffic Access.** All work is complete to allow safe unencumbered use of the final paved portion of roadway throughout the project including but not limited to striping, RPMs, rumble strips, highway lighting, and traffic signals as determined by the RE.

#### **101.04 INQUIRIES REGARDING THE PROJECT**

1. **Before Award of Contract.**
2. **After Award of Contract.**

## **SECTION 102 – BIDDING REQUIREMENTS AND CONDITIONS**

#### **102.04 EXAMINATION OF CONTRACT AND PROJECT LIMITS**

Project Manager:

Email Address:

Mailing Address:

The following is a list of structures and the location(s) of lead paint:

Structure #/Location	Lead Paint Location(s)

1. **Evaluation of Subsurface and Surface Conditions.**

THE FOLLOWING IS ADDED:

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International Roughness Index (IRI) Values of the Existing Roadway				
Route	Direction	Mile Post		Existing IRI Value
		From	To	

This information is the latest available IRI data of the right most through lane from the Pavement Management Unit. The pavement information shown herein was obtained by the Department and is made available to the authorized users only so that they may have access to the same information available to the Department. It is presented in good faith, but is not intended as a substitute for investigations, interpretation, or judgment of such authorized users.

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## **102.10 SUBMISSION OF BIDS**

THE SECOND PARAGRAPH IS CHANGED TO:

The Bidder shall ensure delivery of its bid with all required components and attachments, including, but not limited to the following:

1. Schedule of Items.
2. Proposal Electronic Bidding File with Bidder's Certification.
3. For wholly State Funded contracts, acknowledgement of compliance with the registrations specified in 102.01.
4. Proposal Bond form.
5. Other related documents as specified in the Contract.
6. For Federal Aid Projects exceeding a bid amount of \$100,000 or more, Bidder shall certify to the Byrd Anti-Lobbying Act requirements under 31 USC 1352.

THE FOLLOWING IS ADDED AT THE END OF THE SUBSECTION:

By submitting its bid to the Department, the Bidder warrants that no person or selling agency has been employed or retained by the Bidder to solicit or secure such Contract upon an agreement or understanding for a commission, percentage, brokerage or contingent fee, except bona fide employees or bona fide established commercial or selling agencies maintained by the Bidder for the purpose of securing business, for the breach or violation of which warranty the Department shall have the right to annul such Contract without liability or in its discretion to deduct from the contract price or consideration the full amount of such commission, percentage, brokerage or contingent fee as required by N.J.S.A. 52:34-15.

### **102.13.01 Bidder Pre-Award Requirements**

PART C IS CHANGED TO:

#### **C. All Projects.** Prior to the time of contract award:

1. Submit proof of business registration with the Division of Revenue and Enterprise Services in the New Jersey Department of Treasury as required by N.J.S.A. 52:32-44. Information on how a business can register and obtain proof of business registration can be accessed on the internet at [www.nj.gov/njbgs](http://www.nj.gov/njbgs).
2. On the Disclosure of Investment Activities in Iran (Form DC-16) provided by the Department, certify pursuant to N.J.S.A. 52:32-58, that neither the Bidder, nor one of its parents, subsidiaries, and affiliates (as defined in N.J.S.A. 52:32-56(e)(3)), is listed on the Department of the Treasury's List of Persons or Entities Engaging in Prohibited Investment Activities in Iran and that neither is involved in any of the investment activities set forth in N.J.S.A. 52:32-56(f). If the Bidder is unable to certify, the Bidder shall provide a detailed and precise description of such activities to the Department.

## **SECTION 105 – CONTROL OF WORK**

### **105.05 WORKING DRAWINGS**

#### **1. Certified Working Drawings.**

THE LAST SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

The Department will require \_\_\_ 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 \_\_\_ days for review and approval or rejection and return of working drawings.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
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## 105.07.01 Working in the Vicinity of Utilities

### A. Initial Notice.

### B. Locating Existing Facilities.

2.

Fiber Optic Markout Form is available at:

<http://www.state.nj.us/transportation/eng/elec/ITS/requests.shtm>.

Bureau of Traffic Operations, North Region (TOCN)  
670 River Drive  
Elmwood Park, NJ 07407-1347  
Telephone: 732-697-7360

Bureau of Traffic Operations, South Region (TOCS)  
1 Executive Campus-Route 70 West  
Cherry Hill, NJ 08002-4106  
Telephone: 856-486-6650

For Weigh-in-Motion and Traffic Volume systems contact:

Transportation Data and Safety Unit  
PO Box 600  
Trenton, NJ 08625  
609-963-1891

For Roadway Weather Information Systems contact:

Permits, Electrical Maintenance & Claims Unit  
PO Box 600  
Trenton, NJ 08625  
609-963-1829

3.

Bureau of Electrical Maintenance, North Region  
200 Stierli Court  
Mt. Arlington, NJ 07856-1322  
Telephone: 973-601-6650

NJDOT  
Central Region Electrical  
1035 Parkway Avenue  
4th Floor E&O Bldg.  
CN 600  
Trenton, NJ 08625  
Telephone: 609-963-1491

Bureau of Electrical Maintenance, South Region  
One Executive Campus Route 70 West  
Cherry Hill, NJ 08002-4106  
Telephone: 856-486-6627

### C. Protection of Utilities.

Facility Daily Access Request Form is available at: <http://www.state.nj.us/transportation/eng/elec/ITS/access.shtm>.

Frequency of Trains			
Location	Speed	Number Per Day	Time

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**105.07.02 Work Performed by Utilities**

Company Name & Address	Contact Person	Number of Day/s Advance Notice	
<hr/>			
<hr/>			
Stage # _____			
Utility Company Name	Work Description	Work Duration (Day/s)	Restriction
<hr/>			
<hr/>			
Stage Total _____			

**105.09 LOAD RESTRICTIONS**

THE FOLLOWING IS ADDED:

Material Transfer Vehicles Structural Load Restriction								
Route	Bridge Structures		Structure Name	Material Transfer Vehicles				
	Number	Mile Post		MTV SB-2500C by Roadteck	MTV MC-330 by Blaw-Knox	MTV SB-1500B by Roadteck	MTV SB-1000B by Roadteck	
				Gross Weight 125,500 lbs	Gross Weight 114,100 lbs	Gross Weight 92,000 lbs	Gross Weight 74,000 lbs	

**SECTION 106 – CONTROL OF MATERIAL**

THE SECTION HEADING IS CHANGED TO:

**SECTION 106 – CONTROL OF MATERIAL AND EQUIPMENT****106.01 SOURCE OF SUPPLY AND QUALITY REQUIREMENTS**

THE FOLLOWING IS ADDED TO THE END OF THE SUBSECTION:

For telecommunication and video surveillance services or equipment a certification is required to confirm that the telecommunication and video surveillance services or equipment are not from companies as listed in 2 CFR 200.216. Ensure that the certification includes the statement that all telecommunication and video surveillance services or equipment proposed in this project are not produced by companies as listed in 2 CFR 200.216.

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## **106.02 DEPARTMENT-FURNISHED MATERIAL**

### **106.03 FOREIGN MATERIALS**

THE SUBSECTION HEADING IS CHANGED TO:

### **106.03 FOREIGN MATERIALS AND EQUIPMENT**

#### **1. Wholly State Funded Projects**

THE ENTIRE TEXT IS CHANGED TO:

Due to the requirements of MAP-21 (Moving Ahead for Progress in the 21st Century Act), comply with the Federal Aid Project requirements specified under Subpart 2.

THE FOLLOWING IS ADDED TO THE END OF THE SUBSECTION:

Comply with 2 CFR 200.216 Prohibition on Certain Telecommunication and Video Surveillance Services or Equipment.

Do not provide Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities). Do not provide video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities). Do not provide Telecommunications or video surveillance services provided by such entities or using such equipment.

Do not provide Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the director of the National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

Do not provide any equipment assembled by others that has an integral component that was manufactured and supplied by the aforementioned companies.

### **106.09 SUBSTITUTES FOR PROPRIETARY ITEMS**

## **SECTION 107 – LEGAL RELATIONS**

### **107.11 RISKS ASSUMED BY THE CONTRACTOR**

#### **107.11.01 Risks**

##### **1. Damage Caused by the Contractor.**

THE FOLLOWING IS ADDED:

For any damages by the Contractor to the fiber optic network within project limits, also notify the G4S Technology LLC at 877-637-2344 within 2 hours. Only G4S Technology LLC will be allowed to complete repairs on that respective section of the fiber optic network. Directly pay G4S Technology LLC within 30 days from the receipt of G4S Technology LLC's invoice for such repairs, and provide the RE with a copy of the transmittal letter. If the Contractor does not make payment within 30 days, the Department may recover the costs incurred for repairs as specified in 107.16.

#### **107.11.02 General Insurance**

##### **B. Types**

##### **1. Comprehensive General Liability Insurance.**

THE FOLLOWING IS ADDED:

Ensure the policy names JCP&L, its officers, employees, and agents as additional insured.

##### **2. Comprehensive Automobile Liability Insurance.**

THE FOLLOWING IS ADDED:

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Ensure the policy names JCP&L, its officers, employees, and agents as additional insured.

**5. Excess Liability Insurance.**

THE FOLLOWING IS ADDED:

Ensure the policy names JCP&L, its officers, employees, and agents as additional insured.

**107.12.01 Satisfying the Notice Requirements**

THE SECOND SENTENCE OF THE SECOND PARAGRAPH IS CHANGED TO:

Upon request, provide the RE with 5 copies of all documentation submitted in support of the claim.

## **SECTION 108 – PROSECUTION AND COMPLETION**

### **108.01 SUBCONTRACTING**

**1. Values and Quantities.**

THE FOLLOWING IS ADDED TO THE FIRST PARAGRAPH:

a.

There are no Specialty Items in this Project.

Specialty Items are as listed below:

Drilling and blasting.

Above ground highway lighting items.

Above ground sign lighting items.

Above and below bridge deck lighting items.

Electrical wire items.

ITS items, except for foundations, standards, and junction boxes.

THE FOLLOWING NEW SUBPART IS ADDED:

### **108.07.03 Lane Rental**

Lane and shoulder closures are restricted to the schedule provided in the Traffic Control Details of the plans, and as specified in 108.07.01. The Contractor may extend the allowable hours for lane and shoulder occupancy as provided by Table 108.07.03-1 with the RE's written approval. Submit a written request to the RE to rent lanes and shoulders for an extended period at least 14 days prior to the anticipated use. In the request, provide the following information:

1. Route, direction, and milepost limits
2. Closure Description (Lane type/shoulder)
3. Date(s)/Days
4. Start Time(s)
5. Finish Time(s)
6. Reason
7. Calculation of Lane Rental Cost for each closure

The Department will assess the lane rental charge for each hour the Contractor occupies a lane in accordance with Table 108.07.03-1. If the Contractor does not occupy the lane during the extended hours, the Department will not assess a lane rental charge. If the Contractor occupies the lane for fewer hours than requested, the Department will only assess a lane rental charge for the time that the Contractor has actually occupied the lane. If the Contractor occupies a lane for a portion of an hour, the Department will round the occupancy time to the next highest half hour.

The Department will assess a lane rental charge for lane and/or shoulder occupancy of the roadway at the rates provided in Table 108.07.03-1.

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**Table 108.07.03-1 Lane Rental Availability and Charge**

Roadway	Direction	Closure Description	Closure Time			Rental Time
			Day(s)	Start Time	Finish Time	
				Hours	Hours	\$ per hour

Do not occupy a lane or shoulder beyond the RE's approved extension of the allowable hours for lane and shoulder occupancy. If the Contractor's lane closure exceeds the allowable time period, the Department will assess Occupancy Charges in accordance with 108.08.

### **108.08 LANE OCCUPANCY CHARGES**

SUBSECTION IS RENAMED AND CHANGED TO:

### **108.08 OCCUPANCY CHARGES**

The closure schedule shown in the plans indicates the time periods for allowable closures as specified in the Contract. Allowable closures are permitted for, but not limited to; roadways, lanes, shoulders and ramps. If the Contractor's closures exceed these time periods, the Department will deduct from the monthly estimate an occupancy charge for the use and occupancy beyond the time periods shown in the closure schedule until such time that the closure is reopened to traffic or until such time that the closure is allowed to take place again under the closure schedule. The Department will recover the cost of occupancy charges as specified in 107.16.

The RE will keep record of each occurrence as well as the cumulative amount of time that a closure exceeds the time periods shown in the closure schedule and provide the record to the Contractor. The Department will calculate an occupancy charge by multiplying the length of time of each delayed opening, in minutes, by the rate of \$10 per minute, unless otherwise specified in the Special Provisions. The total amount per day for occupancy charges that the Department will collect will not exceed \$10,000.00.

The Department will waive an occupancy charge where a closure is not reopened to traffic as specified in the closure schedule directly and solely by reason of extraordinary, exigent circumstances not under the control of or reasonably foreseeable by the Contractor. Equipment breakdowns, supplier deliveries, and weather related hindrances are not extraordinary, exigent circumstances. However, the Department has the right to assess an occupancy charge for any period of time that a closure remains closed beyond the reasonable period of time needed by the Contractor to reopen a closure due to an extraordinary, exigent circumstance.

THE FOLLOWING IS ADDED:

The rate to calculate the Occupancy Charge is as follows:

Description	Rate
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### **108.10 CONTRACT TIME**

- A. Complete all work required for Interim Completion for \_\_\_\_\_ on or before \_\_\_\_\_.
- B. Complete all work required for Substantial Completion on or before \_\_\_\_\_.
- C. Achieve Completion on or before \_\_\_\_\_ calendar days.
- A. Complete all work required for Interim Completion for \_\_\_\_\_ in \_\_\_\_\_ days.
- B. Complete all work required for Substantial Completion in \_\_\_\_\_ days.
- C. Achieve Completion in \_\_\_\_\_ calendar days.
- A. Complete all work required for Interim Completion for \_\_\_\_\_ in \_\_\_\_\_ working days.

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- B. Complete all work required for Substantial Completion in \_\_\_\_\_ working days.
- C. Achieve Completion in \_\_\_\_\_ calendar days.

#### **108.11.01 Extensions to Contract Time**

#### **108.12 RIGHT-OF-WAY RESTRICTIONS**

The Department has not obtained the following ROW parcels. The anticipated availability dates are provided:

<b>Properties and Vacation/Availability Dates</b>			
<b>Demolition and/or Parcel No.</b>	<b>Approximate Baseline Station</b>	<b>Offset/Direction</b>	<b>Date</b>

#### **108.14 DEFAULT AND TERMINATION OF CONTRACTOR'S RIGHT TO PROCEED**

LIST (1) OF THE FIRST PARAGRAPH IS CHANGED TO:

1. Fails to begin construction operations within \_\_\_\_ days of execution of the Contract.

#### **108.19 COMPLETION AND ACCEPTANCE**

THE FOLLOWING IS ADDED:

No Incentive Payment for Early Completion is specified for this project.

#### **108.20 LIQUIDATED DAMAGES**

Liquidated damages are as follows:

- A. For each day that the Contractor fails to complete the work as specified in Subsection 108.10 of these Special Provisions, for Interim Completion, the Department will assess liquidated damages in the amount of \$\_\_\_\_\_.
- B. For each day that the Contractor fails to complete the work as specified in Subsection 108.10 of these Special Provisions, for Substantial Completion, the Department will assess liquidated damages in the amount of \$\_\_\_\_\_.  
  
For each day that the Contractor fails to complete the work as specified in Subsection 108.10 of these Special Provisions, for Substantial Completion but has completed the work as specified for Full Traffic Access, the Department will assess liquidated damages in the amount of \$\_\_\_\_\_.
- C. For each day that the Contractor fails to achieve Completion as specified in Subsection 108.10 of these Special Provisions, the Department will assess liquidated damages in the amount of \$\_\_\_\_\_.

### **SECTION 109 – MEASUREMENT AND PAYMENT**

#### **109.01 MEASUREMENT OF QUANTITIES**

THE LAST PARAGRAPH IS CHANGED TO:

The Department does not typically measure quantities for Proposal Items, except quantities designated on the Plans as “if and where directed,” for payment. The Contractor or the RE can measure Proposal Items for payment. If making a measurement for a change in payment, submit drawings, calculations, and other information demonstrating the as-built quantity to the party not initiating measurement. If the difference between the measured quantity and the Contract quantity is less than or equal to 10 percent of the Proposal quantity, the Department will make payment based on the Contract quantity. If the difference is more than 10 percent of the Contract quantity, the Department will make payment based on the measured quantity. For each Item that the Contractor requests a Proposal Item be measured, and it is determined that the difference between the quantity measured and the Contract quantity is less than or equal to 10 percent of the Proposal quantity, the Department will deduct \$500.00. The Department will measure quantities for Proposal Items that are designated on the Plans as “if and where directed” for payment when the RE directs work using the “if and where directed” quantity.

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#### **109.05 ESTIMATES**

THE FOURTH 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, whether:

**A. On Federally Funded Projects**

1. No subcontractor or supplier was used on the project; or
2. Each subcontractor and supplier used on the project has been paid the amount due, from the previous progress payment and will be paid the amount due from the current progress payment, for the subcontractor or supplier's work that was paid by the Department.

**B. On State Funded Projects**

1. No subcontractor or supplier was used on the project; or
2. Each subcontractor and supplier used on the project has been paid the amount due, excluding retainage, from the previous progress payment and will be paid the amount due from the current progress payment, excluding retainage, for the subcontractor or supplier's work that was paid by the Department; or
3. There exists a valid basis under the terms of the subcontractor's or supplier's contract to withhold payments from the subcontractor or supplier. Therefore, the following subcontractors and suppliers have not been paid for work performed or materials supplied to the project from the proceeds of the previous progress payment or will not be paid for work performed or materials supplied to this project from the proceeds of the current progress payment, or both.

THE TWELFTH PARAGRAPH IS CHANGED TO:

The Department will deduct and withhold 2 percent in retainage from the total Estimate amount for State Funded Projects. On State Funded Projects, the Contractor may not withhold subcontractor retainage that exceeds the amount of retainage that the Department withholds from the Contractor.

Regarding Federally Funded Projects, the Department will deduct and withhold 2 percent in retainage from the total Estimate amount, excluding amounts for subcontracted work, until Substantial Completion. Pursuant to 49 C.F.R. § 26.29(b)(1), the Contractor may not withhold retainage from a subcontractor on Federally Funded Projects.

THE THIRTEENTH PARAGRAPH IS CHANGED TO:

In the first Estimate following installation of all landscape work, the Department will reduce the retainage withheld to 1 percent of the Total Adjusted Contract Price, excluding subcontracted work on Federal Aid Projects, unless it has been determined by the Department that the withholding of additional retainage is required. If retainage is held in cash withholdings, the reduction is to be accomplished by payment under the next Estimate. If retainage is held in bonds, the Department will authorize a reduction in the escrow account.

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## **DIVISION 150 – CONTRACT REQUIREMENTS**

### **SECTION 152 – INSURANCE**

#### **152.03.01 Railroad Protective Liability Insurance**

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 \_\_\_ percent of the Project cost is located within or adjacent to the railroad ROW.

### **SECTION 153 – PROGRESS SCHEDULE**

### **SECTION 155 – CONSTRUCTION FIELD OFFICE**

#### **155.03.01 Field Office**

##### **4. Communication Equipment.**

- a. Telephones.** Provide \_\_\_ cordless phones with auto-switching.
- c. Cell Phones.** Provide \_\_\_ cellular phones. Ensure the cellular phone plan provides for unlimited mobile to mobile in-network usage and an anticipated monthly usage of 900 anytime minutes for each phone. Ensure the phones are on the same plan. Ensure the cellular phone plan has a home rate with no roaming charges within the state. Ensure each cellular phone has the following features:
  - 1. Camera with 1 megapixel picture capability.
  - 2. Battery life capable of 180 minutes of continuous use and 72 hours of standby use.
  - 3. Equipped with a hands-free headset.
  - 4. Base charger and car charger.

The Department will maintain possession of the cell phones at the end of the Project.

##### **d. Computer System.** Provide a computer system meeting the following requirements:

\_\_\_ computer configurations each meeting the following:

- 1. Processor having a clock speed of \_\_\_ GHz or faster, \_\_\_ GB RAM, \_\_\_ MB Video RAM, \_\_\_ Gigabyte hard drive designated as drive C, one DVD (+/-) Writer Drive, and one CD Recordable Drive. Ensure the system is USB 2.0 compatible and has at least 2 front USB ports Include Keyboard, optical mouse and 2 piece desktop speakers.
- 2. Wired Router with appropriate number of ports and cables and a print server. Ensure there is at least 1 wired Ethernet switch.
- 3. High-speed broad band connection and service with a minimum speed of \_\_\_ Megabits per second (mbps) with dynamic IP address for the duration of the project.
- 4. 19 inch or larger Flat Screen LCD monitor with tilt/swivel capabilities.
- 5. \_\_\_ Gigabyte or larger external drive with backup software for MS-Windows, and 15 corresponding formatted data cartridges corresponding to the tape drive size.
- 6. \_\_\_ Flatbed USB version 2.0 or greater Color Scanner with automatic document feed.
- 7. Uninterruptible power supply (UPS).

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8. Surge protector for the entire computer configuration to be used in conjunction with the UPS.
9. Computer workstation, chair, printer stand, and/or table having both appropriate surface and chair height.
10. One can of compressed air and screen cleaning solution every other month of the duration of the contract.

If more than one computer configuration is specified, provide one network interface card for the base computer configuration and hardwire connections between computer configurations as directed by the RE.

Also provide:

- \_\_\_ USB \_\_\_ GB Flash/Jump memory drives
- \_\_\_ CD \_\_\_ MB (or larger) recordable CD's compatible with the CD drive and \_\_\_ recordable DVD's.
- \_\_\_ CD/DVD Holder (each holds 50)

\_\_\_ color laser printers and supplies as follows:

1. Minimum of 192 Megabytes of expanded memory, printer cable, and legal size paper tray.
2. One set of printer ink cartridges every other month for the duration of the construction project for each printer.

Software as follows:

1. Microsoft Windows, latest version with future upgrades for the duration of the entire project.
2. Microsoft Office Professional, latest version.
3. Norton's System Works for Windows, latest version, or compatible software package with future upgrades and latest virus patches.
4. Anti-Virus software, latest version with monthly updates for the duration of the contract.
5. Adobe Acrobat Professional, latest version, or compatible software for Scanner.

**6. Office Equipment.** Provide the following:

- b. \_\_\_ digital camera(s). Ensure each digital camera has auto-focus, with rechargeable batteries and charger, \_\_\_ GB memory card, USB Memory Card Reader compatible with camera and field office computer, 3.0 inch LCD monitor, \_\_\_ mega pixel resolution, \_\_\_ X optical zoom lens, built in flash, image stabilization, computer connections, and a carrying case.
- c. \_\_\_ video camcorder(s) with \_\_\_ Memory Cards 32 GB (or larger) compatible with the camcorder. Ensure each video camcorder is a memory card camcorder with \_\_\_X optical zoom, 2" LCD monitor, USB 2.0 compatible, and includes USB 2.0 connections.

**7. Inspection Equipment.**

1. \_\_\_ Calculators with trigonometric capability.
2. \_\_\_ Date/ Received stamp and ink pad.
3. \_\_\_ Electronic Smart level, 4 foot.
4. \_\_\_ Electronic Smart level, 2 foot.
5. \_\_\_ Carpenter rulers.
6. \_\_\_ Steel tape, 100 feet.
7. \_\_\_ Cloth tape, 100 feet.
8. \_\_\_ Illuminated measuring wheel.
9. \_\_\_ Plumb bob and cord.
10. \_\_\_ Line level and cord.
11. \_\_\_ Surface thermometer.
12. \_\_\_ Concrete thermometer.
13. \_\_\_ Digital infrared asphalt thermometer.
14. \_\_\_ Direct Tension Indicator (DTI) Feeler Gage, 0.005 inch.
15. \_\_\_ Sledge hammer, 8 pound.
16. \_\_\_ Self leveling laser level with range of 100 feet and an accuracy of 1/4 inch per 100 feet.
17. \_\_\_ Hard hats - orange, reflectorized hard hats according to ANSI Z89.1.

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18. \_\_\_ Safety garments – orange, reflectorized, 360° high visibility safety garments according to ANSI/ISEA Class 3, Level 2 standards. To be replaced yearly for the duration of the contract.
19. \_\_\_ Sets of rain gear with reflective sheeting.
20. \_\_\_ Sets of hearing protection with a NRR rating of 22 dB.
21. \_\_\_ Sets of eye protection according to ANSI Z87.1.
22. \_\_\_ Sets of fall arrest equipment according to ANSI Z359.1 standards consisting of a full body harness, lanyard, and anchor.
23. \_\_\_ Light meter - capable of measuring the level of luminance in foot-candles.
24. \_\_\_ Lantern flashlight, 6V with monthly battery replacements.
25. \_\_\_ Digital Psychrometer.
26. \_\_\_ Chain Drag according to ASTM D4580-86.
27. \_\_\_ Testing equipment and apparatus conforming to AASHTO T23, T119, and T152.
28. \_\_\_ Hard Bound Daily Diaries, 5 1/2" X 8" minimum with one day per page. To be provided yearly for the duration of the contract.
29. \_\_\_ Legal size hanging folders.
30. \_\_\_ Legal size manila file folders – three tab.

## **SECTION 156 – MATERIALS FIELD LABORATORY AND CURING FACILITY**

## **SECTION 158 – SOIL EROSION AND SEDIMENT CONTROL AND WATER QUALITY CONTROL**

### **158.03.02 SESC Measures**

#### **19. Oil-Only Emergency Spill Kit.**

## **SECTION 159 – TRAFFIC CONTROL**

### **159.02.02 Equipment**

THE FOLLOWING IS ADDED TO THE LIST OF EQUIPMENT REFERENCES:

Portable Variable Message Sign w/Remote Communication.....	1001.04
Portable Trailer Mounted CCTV Camera Assembly.....	1001.05

### **159.03.01 Traffic Control Coordinator**

THE FIRST PARAGRAPH BEFORE THE LIST IS CHANGED TO:

Before starting Work, submit to the RE the name, training, work experience, and contact information of an employee assigned as the on-site Traffic Control Coordinator (TCC). The TCC must be certified as having successfully completed the Rutgers CAIT Traffic Control Coordinator Program, or an equivalent course as approved by the NJDOT Office of Capital Project Safety. The TCC must also successfully complete an approved Traffic Coordinator refresher course every 2 years. The TCC is a full-time position and the employee designated as TCC must be available on a 24 hour a day, 7 days a week basis. The TCC shall have the responsibility for and authority to implement and maintain all traffic operations for the Project on behalf of the Contractor. Ensure that the TCC is present at the work site at all times while the Work is in progress. The TCC's responsibilities and duties shall include the following:

### **159.03.02 Traffic Control Devices**

THE FIRST PARAGRAPH IS CHANGED TO:

Ensure that FHWA category 1, 2, 3, and 4 traffic control devices (TCDs) conform to the requirements of the 2016 Edition of the Manual for Assessing Safety Hardware (MASH), except that TCDs manufactured on or before December 31, 2019 must have been purchased by the Contractor on or before December 31, 2019, and conform to the requirements of NCHRP 350, MASH 2009, or MASH 2016. Provide each device's applicable MASH 2016, MASH 2009, or NCHRP 350 test

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results and FHWA Eligibility letter, if issued by the FHWA, to the RE. Provide the RE with the purchase date certification for devices not meeting the MASH 2016 requirements upon delivery to the site. Ensure that traffic control devices meet or exceed an acceptable condition as described in the ATSSA guide Quality Standards for Work Zone Traffic Control Devices. Traffic control devices need not be new but must be in good condition. Provide traffic control devices according to MUTCD.

**2. Construction Barrier Curb.**

THE SECOND PARAGRAPH IS CHANGED TO:

At least 30 days before delivering construction barrier curb to the Project Limits, provide the RE notice that the barrier curb is available for inspection. Ensure the barrier curb is not stacked for this inspection. The RE will inspect the barrier curb, along with a Contractor representative, to determine what pieces are not approved for delivery to the Project Limits. Final determination of construction barrier approval will be made at the time of placement at the Project.

PART (5) IS CHANGED TO:

- 5. Temporary Crash Cushion.** Install inertial barrier systems as specified in 611.03.01. Install temporary compressive crash cushions as specified in 611.03.02. Immediately repair or replace crash cushions that become damaged or become inoperable. Begin repair or replacement of the temporary crash cushion within 1 hour of receiving notice of damage from the Department. Ensure that workers assigned to such repair or replacement work continuously until the temporary crash cushion is repaired or replaced. If the Contractor fails to respond to a damage notification and begin work within 1 hour of notification, or does not continue to work until the temporary crash cushion is repaired or replaced, the Department, will require closure of the adjacent live lane. Lane occupancy charges will be imposed as specified in 108.08 for the period of time the adjacent lane is closed. Should the Department have to respond to a repair with its own forces because of a Contractor's lack of response to a damage notification, the Contractor agrees to pay the Department a sum of \$3,000 for costs of mobilizing its forces and equipment. In addition, the Contractor must pay the Department the actual cost of material used for the repair and pay the actual costs of police traffic protection. Maintain an adequate number of replacement parts to repair damaged units at all times. Keep the areas in front, atop, and around the crash cushions clear of snow accumulation of more than 4 inches in depth.

Upon removal of the crash cushion, cut anchor bolts at least 3 inches below the surface of the surrounding roadway. Repair HMA pavement as specified in 401.03.03. Repair concrete pavement as specified in Section 452.

**9. Portable Trailer Mounted CCTV Camera Assembly (PTMCCA).**

**159.03.08 Traffic Direction**

**B. Police.**

THE SECOND PARAGRAPH PART 2 IS CHANGED TO:

2. Temporary closure of all lanes on state highways and interstates.

**159.04 MEASUREMENT AND PAYMENT**

**SECTION 160 – PRICE ADJUSTMENTS**

**160.03.01 Fuel Price Adjustment**

THE FIFTH PARAGRAPH IS CHANGED TO:

The Department will calculate fuel price adjustment on a monthly basis using the following formula:

$$F = (MF - BF) \times G$$

Where:

F = Fuel Price Adjustment

MF = Monthly Fuel Price Index for work performed from the first day of the month to the last day of the month for the month prior to the estimate cutoff date

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BF = Basic Fuel Price Index  
G = Gallons of Fuel for Price Adjustment

THE SEVENTH PARAGRAPH IS CHANGED TO:

The basic fuel price index is the previous month's fuel price index before receipt of bids. The Department will use the fuel price index for the month before the regular monthly estimate cutoff date as the Monthly Fuel Price Index for work performed in the previous calendar month. If the Monthly Fuel Price Index increases by 50 percent or more over the Basic Fuel Price Index, do not perform any work involving Items listed in Table 160.03.01-1 without written approval from the RE.

**160.03.02 Asphalt Price Adjustment**

THE THIRD PARAGRAPH IS CHANGED TO:

The Department will calculate the asphalt price adjustment by the following formula:

$$A = (MA - BA) \times T$$

Where:

A = Asphalt Price Adjustment

MA = Monthly Asphalt Price Index for work performed from the first day of the month to the last day of the month for the month prior to the estimate cutoff date

BA = Basic Asphalt Price Index

T = Tons of New Asphalt Binder<sup>1</sup>

1. The Department 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 of asphalt binder used.

THE SIXTH PARAGRAPH IS CHANGED TO:

The basic asphalt price index is the asphalt price index for the month before the opening of bids. The Department will use the asphalt price index for the month before the regular monthly estimate cutoff date as the monthly asphalt price index for work performed in the previous calendar month.

## DIVISION 200 – EARTHWORK

### SECTION 201 – CLEARING SITE

#### 201.03.01 Clearing Site

Remove trees and branches within 15 feet of the end of JCP&L pole cross arms. If the resulting tree is rendered hazardous, then remove the entire tree according to Section 802.

#### 201.03.02 Clearing Site, Bridge and Clearing Site, Structure

THE FOLLOWING IS ADDED:

The procedure is described below:

1. **Prestressed Concrete Stringers and Concrete Diaphragms.** Repair damage to prestressed concrete stringers and concrete diaphragms using nonshrink grout conforming to 903.08 before deck placement.
2. **Steel Stringers, Floorbeams, Cross Frames, and Diaphragms.**
  - a. Repair procedures to tensile components in conformance with ASTM A6/A6M and the following:
    - 1 Repair gouges up to 1/8 inch by grinding flush in the direction of principal stress.
    - 2 Repair gouges deeper than 1/8 inch by first grinding; then, depositing weld metal and grinding flush with the surface of the metal in the direction of principal stress. Weld using low hydrogen electrodes conforming to current AWS Specifications A5.1 and A5.5.
    - 3 Repair kinks and deformations by flame straightening or a combination of flame straightening and jacking. Ensure flame straightening is performed by personnel having a minimum of three years of documented experience. Submit the names of the personnel to the RE for review and approval prior to performing the work.
  - b. Repair procedures to compression components for kinks and deformations as outlined in 2.a.3 above. Where more than 5 percent of the cross-sectional area of the member is damaged, submit a repair procedure to the RE for review and approval.

Clean and paint exposed existing top flanges of beams with prime coat as specified in 554.03.

1. **Grounding for Electrified Railroad.** Submit a list of required grounding materials to the RE for approval 21 days before construction operation. In the list, include the material description, manufacturer, and catalog number. After obtaining the RE's approval, submit the list to the railroad for review and approval. Do not order the materials prior to obtaining the railroad's approval. Furnish and deliver the grounding materials to the railroad. Obtain a receipt for the materials from the railroad and provide a copy to the RE.

List of Materials	
Description	Quantity Required
U-bolt, 7/8 inch diameter by 4 inch, BS fastener	-----
Strap, clevis, 1 1/4 by 2 inches stock, 12 inch connecting length, 1 inch diameter hole, 5/8 inch diameter bolt, ultimate strength 25 psi, Brewer Tilchener Corp.-3074 C	-----
Dead end eye bolt, compression type steel, use DIE 6010SH, compression tool, 60A ALCOA 9190-332	-----
Jumper cable, compression type aluminum, use DIE 6020AH, compression tool 60A ALCOA 5120-781	-----
Terminal - Bundy AK2C39B1 to 336400 Cable (1)	-----
Ground terminal - Bundy AK2C39B1 to 336400 Cable (2)	-----

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List of Materials	
Description	Quantity Required
Terminal - solid barrier to 0.17 square inch cable Bundy KC28B1	-----
Compound, aluminum to copper connection (ALNOX) CANS	-----
Termination, dead end strand clamp, ALCO 336 4 KCM	-----
Clip, bronze, complete type BC, Ohio brass	-----
Thimble-Bronx 336 4 KCM	-----
U-bolt, 1 1/4 inch diameter by 1 1/2 inch loop 336 4 KCM 11, 30/7 STR ACSR, ANACONDA insulated aluminum cable having a diameter of 0.17 square inches, ANACONDA	-----

### 201.03.03 Clearing Site, Tank Removal

Remove following:

Parcel No.	Tank Size	Contents	Tank Registration No.

### 201.03.08 Removal of Asbestos

### 201.04 MEASUREMENT AND PAYMENT

THE FOLLOWING IS ADDED:

The Department will not make payment for the Item CLEARING SITE in excess of \$\_\_\_\_\_ until Completion.

The Department will not make payment for the Item CLEARING SITE, BRIDGE (\_\_\_\_) in excess of \$\_\_\_\_\_ until Substantial Completion.

The Department will not make payment for the Item CLEARING SITE, STRUCTURE (\_\_\_\_) in excess of \$\_\_\_\_\_ until Substantial Completion.

## SECTION 202 – EXCAVATION

### 202.03.01 Stripping

THE SECOND PARAGRAPH IS CHANGED TO:

Strip vegetation and underlying soil to a depth of 4 to 6 inches below the existing ground surface. Confirm the thickness of stripping with the RE based on field conditions. Temporarily store in stockpiles, as specified in 202.03.03.B, stripped material including excess that is determined suitable for the future use of the Department. The Department will sample and analyze stripped material in stockpiles to determine suitability for use as topsoil. Reuse or dispose of unsuitable stripped material as specified in 202.03.03.C.

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## DIVISION 400 – PAVEMENTS

### SECTION 401 – HOT MIX ASPHALT (HMA) COURSES

#### 401.03.01 Milling

##### A. HMA Milling.

Stage	Max. Time Interval Allowed

##### C. Micro-Milling and Profile Milling.

For projects with a posted speed limit of 45 miles per hour or greater the time interval is to be 0 unless approved by the RE .

Stage	Max. Time Interval Allowed

#### 401.03.07 HMA Courses

##### A. Paving Plan.

PART (4) IS CHANGED TO:

4. Lighting plan for night operations as specified in 108.06.

##### E. Spreading and Grading.

##### D. Transportation and Delivery of HMA.

THE SECOND SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

Do not allow trucks to leave the plant within 1 hour of sunset unless lighting for night operations is provided as specified in 108.06.

##### G. Opening to Traffic.

THE FOLLOWING IS ADDED AFTER THE LAST PARAGRAPH:

Ensure that RPMs are installed and rumble strips are constructed within 14 days of opening each day's surface paving to traffic.

##### H. Air Void Requirements

FOR LOCAL AID PROJECTS, THIS SUBSECTION IS REPLACED BY THE FOLLOWING.

Pavement lots are defined as approximately 15,000 square yards of pavement in Surface area. If pavement lot area is less than 5000 square yards, the District Local Aid Office may waive the air voids requirements.

The RE will designate an independent testing agency (Laboratory) to perform the quality assurance sampling, testing and analysis. The Laboratory is required to be accredited by the AASHTO Accreditation Program ([www.amrl.net](http://www.amrl.net)). The Laboratory's accreditation must include AASHTO T 166 and AASHTO T 209.

The Laboratory Technician who performs the quality assurance sampling shall be certified by the Society of Asphalt Technologists of New Jersey as an Asphalt Plant Technologist, Level 2.

The Laboratory will determine air voids from 5 (Five) 6 inch diameter cores taken from each lot in random locations within the traveled way and at least one core in each travel lane. The [HMA Core Sampling Plan form](#) provided on the [Local Aid Website](#) must be utilized by the Laboratory to determine the random locations of the cores. The Laboratory

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may rerun the random location functions on the HMA Core Sampling Plan form to resolve any conflicts generated by the HMA Core Sampling Plan form and physical limitations of the HMA lot, such as utility conflicts, or the specifications defined herein. The coring locations must be designated by a station and offset, and offsets are taken from the left edge of the pavement in the direction of travel within the lane lines. The Laboratory must disclose the contents of the HMA Core Sampling Plan with the Contractor to assist in the schedule of construction.

The Laboratory will determine air voids of cores from the values for the maximum specific gravity of the mix and the bulk specific gravity of the core. The Laboratory will determine the maximum specific gravity of the mix according to NJDOT B-3 and AASHTO T 209, except that minimum sample size may be waived in order to use a 6-inch diameter core sample. The Laboratory will determine the bulk specific gravity of the compacted mixture by testing each core according to AASHTO T 166.

The Laboratory will calculate the percent defective (PD) as the percentage of the lot outside the acceptable range of 2 percent air voids to 8 percent air voids. The acceptable quality limit is 15 percent defective. For lots in which PD > 15, the Department will assess a negative pay adjustment.

The Laboratory will use and submit to the RE [form DS8S-PD](#) provided from The Local Aid District Office and verify manually the PD calculation.

The Laboratory will calculate pay adjustments based on the following:

**1. Sample Mean ( $\bar{X}$ ) and Standard Deviation (S) of the N Test Results ( $X_1, X_2, \dots, X_N$ ).**

$$\bar{X} = \frac{(X_1 + X_2 + \dots + X_N)}{N}$$

$$S = \sqrt{\frac{(X_1 - \bar{X})^2 + (X_2 - \bar{X})^2 + \dots + (X_N - \bar{X})^2}{N - 1}}$$

**2. Quality Index (Q).**

$$Q_L = \frac{(\bar{X} - 2.0)}{S}$$

$$Q_U = \frac{(8.0 - \bar{X})}{S}$$

**3. Percent Defective (PD).** Using NJDOT ST for the appropriate sample size, the Laboratory will determine  $PD_L$  and  $PD_U$  associated with  $Q_L$  and  $Q_U$ , respectively.  $PD = PD_L + PD_U$

**4. Reduction Per Lot.** Calculate the reduction per lot as specified in Table 401.03.07-3:

Table 401.03.07-3
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Reduction in Payment for Nonconformance to Air Void Requirements

Percent Defective (PD) Per Lot	Reduction Per Lot (%)
$0 < PD \leq 15$	0
$15 < PD \leq 30$	0.5
$30 < PD \leq 35$	2
$35 < PD \leq 40$	10
$40 < PD \leq 45$	15
$45 < PD \leq 50$	20
$50 < PD \leq 60$	30
$60 < PD \leq 75$	45
$PD > 75$	Remove & Replace

5. **Outlier Detection.** If  $PD < 10$ , the Laboratory will not screen for outliers. If  $PD \geq 10$ , the Laboratory will screen acceptance cores for outliers using a statistically valid procedure. The following procedure applies only for a sample size of 5 or 10.

1. The Laboratory will arrange the core results in ascending order, in which  $X_1$  represents the smallest value and  $X_N$  represents the largest value.
2. If  $X_N$  is suspected of being an outlier, the Laboratory will calculate:

$$R = \frac{X_N - X_{(N-1)}}{X_N - X_1}$$

3. If  $X_1$  is suspected of being an outlier, the Laboratory will calculate:

$$R = \frac{X_2 - X_1}{X_N - X_1}$$

4. For  $N = 5$  if  $R > 0.642$ , the value is judged to be statistically significant and the core is excluded.  
For  $N = 10$  if  $R > 0.412$ , the value is judged to be statistically significant and the core is excluded.

If an outlier is detected for  $N = 5$  and no retest is warranted, the Contractor may replace that core by taking an additional core at the same offset and within 5 feet of the original station. If an outlier is detected and a retest is justified, take a replacement core for the outlier at the same time as the 5 additional retest cores are taken. If the outlier replacement core is not taken within 15 days, the Laboratory will use the initial core results to determine reduction per lot.

If an outlier is detected for  $N = 10$ , the Contractor may replace that core by taking an additional core at the same offset and within 5 feet of the original station. If the outlier replacement core is not taken within 15 days, the Laboratory will use the initial core results to determine the reduction per lot.

6. **Retest.** If the initial series of 5 cores produces a percent defective value of  $PD \geq 30$  for mainline or ramp lots, or  $PD \geq 50$  for other pavement lots, the Contractor may elect to take an additional set of 5 cores at random locations chosen by the HMA Core Sampling Plan form. Take the additional cores within 15 days of receipt of the initial core results. If the additional cores are not taken within the 15 days, the Laboratory will use the initial core results to determine the PPA. If the additional cores are taken, the Laboratory will recalculate the

reduction per lot using the combined results from the 10 cores.

7. **Removal and Replacement.** If the final lot PD  $\geq 75$  (based on the combined set of 10 cores or 5 cores if the Contractor does not take additional cores), remove and replace the lot and all overlying work. The replacement work is subject to the same requirements as the initial work.

For shoulder lots, the Department will assess the calculated reduction per lot instead of removal and replacement. Fog seal the lot as specified in 422.03.01.

## I. Thickness Requirements

DELETE THIS SUBSECTION AND REPLACE THIS SUBSECTION'S CONTENTS WITH THE FOLLOWING:  
This subsection is deleted. In no instance will a compacted average thickness of less than 1.25 inches be acceptable.

DELETE THIS SUBSECTION AND REPLACE THIS SUBSECTION'S CONTENTS WITH THE FOLLOWING:

Thickness requirements will apply when full-depth, uniform-thickness HMA pavement construction is shown.

Pavement lots are defined as approximately 15,000 square yards of pavement area. The Engineer will not include areas consisting of different HMA mixtures or thicknesses in the same lot. If thickness lot area is less than 5000 square yards, the District Local Aid Office may waive the thickness requirements.

The RE will designate an independent testing agency (Laboratory) to perform the quality assurance sampling, testing and analysis. The Laboratory is required to be accredited by the AASHTO Accreditation Program ([www.amrl.net](http://www.amrl.net)). The Laboratory's accreditation must include AASHTO T 166 and AASHTO T 209.

The Laboratory Technician who performs the quality assurance sampling shall be certified by the Society of Asphalt Technologists of New Jersey as an Asphalt Plant Technologist, Level 2.

The Laboratory will test for thickness using the full-depth cores taken for surface course air voids, evaluated according to NJDOT B-4. The Laboratory will base acceptance on total thickness and thickness of the surface course.

1. **Total Thickness.** The Laboratory will calculate the percent defective (PD) as the percentage of the lot that is less than the design thickness. The Laboratory will consider 25 percent defective as the acceptable quality limit. For lots where PD < 25, the Department will award a positive pay adjustment. For lots where PD > 25, the Department will assess a negative pay adjustment.

The Department will base total thickness acceptance on the percentage of the lot estimated to fall below the specified thickness as follows

- a. **Sample Mean ( $\bar{X}$ ) and Standard Deviation (S) of the N Test Results ( $X_1, X_2, \dots, X_N$ ).** Calculate as specified in 401.03.07.H.1.

$$\bar{X} = \frac{(X_1 + X_2 + \dots + X_N)}{N}$$

$$S = \sqrt{\frac{(X_1 - \bar{X})^2 + (X_2 - \bar{X})^2 + \dots + (X_N - \bar{X})^2}{N - 1}}$$

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b. **Quality Index (Q<sub>i</sub>)**

$$Q_L = \frac{(\bar{X} - T_{des})}{S}$$

Where T<sub>des</sub> = design thickness.

- c. **Percent Defective (PD).** Using NJDOT ST for the appropriate sample size, determine the percentage of material (PD) falling below the design thickness associated with Q<sub>L</sub> (lower limit).
- d. **Reduction in Payment.** The Department will determine the reduction in payment based on the quantity of the surface course multiplied by the percent reduction in payment from Table 401.03.07-5.

Table 401.03.07-5 Reduction in Payment for Nonconformance to Requirements for Total Thickness	
Percent Defective	Percent Reduction
0 to 25.0	0
25.1 to 30.0	2
30.1 to 35.0	5
35.1 to 40.0	10
40.1 to 45.0	20
Over 45.0	Remove & Replace

- e. **Retest.** If the initial series of 5 cores produces a percent defective value of PD ≥ 30, the Contractor may elect to take an additional set of 5 cores at random locations chosen by the RE. Notify the RE within 15 days of receipt of the initial core results to take the additional cores. If the RE is not notified within the 15 days, the Laboratory will use the initial core results to determine the reduction in payment for nonconformance requirements. If the additional cores are taken, the ME will recalculate the reduction in payment for nonconformance requirements using the combined results from the 10 cores.
- f. **Removal and Replacement.** If the lot PD ≥ 45, remove and replace, or mill and overlay, the lot. The replacement work is subject to the same requirements as the initial work.
2. **Surface Course Thickness.** The Laboratory will evaluate the surface course solely to determine whether a remove- and-replace or an overlay condition exists, not for pay adjustment. The Laboratory will calculate the percent defective (PD) as the percentage of the lot that is less than the allowable thickness for the nominal maximum aggregate used in the surface course. The Laboratory will accept pavement lots with PD ≤ 30 and will reject pavement lots with PD > 30.

The Laboratory will base surface thickness acceptance on the percentage of the lot estimated to fall below the allowable thickness as follows:

- a. **Sample Mean (X) and Standard Deviation (S) of the N Test Results (X<sub>1</sub>, X<sub>2</sub>,..., X<sub>N</sub>).** Calculate using the formula as specified in 401.03.03.I.1.
- b. **Quality Index (Q).**

$$Q_L = (X - T_{all})/S, \text{ where } T_{all} \text{ is the minimum allowable thickness from Table 401.03.07-6.}$$

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Table 401.03.07-6 Surface Course Thickness Requirements	
HMA Mix Design Size Designation	Minimum Allowable Compacted Lift Thickness ( $T_{all}$ )
4.75 MM	0.50 inch
9.5 MM	1.00 inch
12.5 MM	1.25 inches
19 MM	2.00 inches

- c. **Percent Defective.** Using NJDOT ST - Statistical Tables (NJDOT Standard Specs for Roads and Bridges 2019-NJDOT TEST METHODS) for the appropriate sample size, determine the percentage of material (PD) falling below the allowable thickness associated with  $Q_L$  (lower limit).
- d. **Retest.** If the initial series of 5 cores produces a percent defective value of  $PD > 30$ , the Contractor may take an additional 5 cores at random locations determined by the Laboratory. Notify the RE within 15 days of receipt of the initial core results to take the additional cores. If the RE is not notified within the 15 days, the Laboratory will use the initial core results to determine the PPA. When the additional cores are taken, the Laboratory will recalculate the reduction in payment for nonconformance requirements using the combined results from the 10 cores to obtain the total PD.
- e. **Removal and Replacement.** If the surface course fails to meet the acceptance requirement with a  $PD \leq 45$ , the Department will require removal and replacement of the lot. The replacement work is subject to the same requirements as the initial work.

#### J. Ride Quality Requirements.

The Department will evaluate the ride quality of the final riding surface of all constructed pavement on the project, for routes designated as National Highway System (NHS) and routes under NJDOT jurisdiction, using the International Roughness Index (IRI) according to ASTM E 1926. All NHS roadways are listed on the Department's website [here](#). The Department may evaluate ride quality of other routes not designated as NHS or under NJDOT jurisdiction. The final riding surface is defined as the last lift of the pavement structure where traffic will be allowed. The pavement will be evaluated using the current average IRI (C) to select the target IRI (T) from Table 401.03.07-8. The current average IRI (C) is defined as the preconstruction ride quality measured not more than two years from the start of the project pavement construction.

The RE will designate an independent testing agency to perform the ride quality testing and analysis. The testing agency is required to comply with testing and certification requirements according to NJDOT R-1. If the current average IRI (C) is not available, then the testing agency will test, analyze and report ride quality before pavement construction to measure current average IRI (C). The testing agency will use and submit to the RE the [IRI Testing Summary Report form](#) provided from The Local Aid District Office and verify manually the pay adjustment calculation.

Current IRI data for paving routes designated NHS or NJDOT jurisdiction can be made available by request by contacting Simon Nwachukwu at [Simon.Nwachukwu@dot.nj.gov](mailto:Simon.Nwachukwu@dot.nj.gov).

For projects paving routes designated NHS or NJDOT jurisdiction on mainline travel lanes equal to or greater than 2,500 feet length and any lane within the project of at least 1,000 feet length, the Department will evaluate the ride quality of the final riding surface of the mainline travel lanes using IRI. The Department will use the measured IRI to calculate the pay adjustment (PA) using pay adjustment equation (PAE) type PA1 as specified in Table 401.03.07-7. PA will be based on lots of 0.01 mile length. The PA will be zero for acceptable quality and negative for inferior quality work.

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For projects paving routes designated NHS or NJDOT jurisdiction on mainline travel lanes of less than 2,500 feet length, the RE will visually inspect the final riding surface. Based on visual inspection, if the RE determines that the work may not conform to the ride quality requirements, then the Department will evaluate the ride quality of the final riding surface using IRI. Visual inspection by the RE is considered sufficient grounds for such evaluation. The Department will use the measured IRI to calculate the PA using pay equation type PA1 as specified in Table 401.03.07-7.

For paving on ramps and shoulders, the RE will visually inspect the final riding surface. Based on visual inspection, if the RE determines that the work may not conform to the ride quality requirements, then the Department will evaluate the ride quality of the final riding surface using IRI. Visual inspection by the RE is considered sufficient grounds for such evaluation. The Department will use the measured IRI to calculate the pay adjustment using pay equation type PA2 as specified in Table 401.03.07-7.

When paving over bridge structures on NHS or NJDOT jurisdiction roadways, the Department will use the measured IRI to calculate the pay adjustment using pay equation type PA3 as specified in Table 401.03.07-7.

For paving on Local roadways other than NHS and NJDOT jurisdiction on mainline travel lanes equal to or greater than 2,500 feet length and any lane within the project of at least 1,000 feet length, the Department may evaluate the ride quality of the final riding surface of the mainline travel lanes using IRI. Local roadways are defined as municipal and county roads that are not designated as part of the NHS. The Department will use the measured IRI to calculate the pay adjustment (PA) using pay adjustment equation (PAE) type PA4 as specified in Table 401.03.07-7.

1. **Smoothness Measurement.** The Department will test the longitudinal profile of the final riding surface for ride quality with a Class 1 Inertial Profiling System according to NJDOT R-1. If project conditions preclude the use of the Class 1 Inertial Profiling System, the Department will use a Class 1 Walking Profiler or lightweight profiler.
2. **Quality Control Testing.** Perform quality control testing during lift placement to ensure compliance with the ride quality requirements specified in Table 401.03.07-8.
3. **Preparation for IRI Testing.** Notify the RE when all paving is complete and the RE will request IRI testing by independent testing agency. Provide traffic control when the independent testing agency performs IRI testing. Perform mechanical sweeping of the surface before IRI testing. To facilitate auto triggering on laser profilers, place a single line of temporary pavement marking tape perpendicular to the roadway baseline at the beginning and end of each lane, shoulder, and ramp to be tested or as per direction of the independent testing agency. Submit the actual stationing for each temporary pavement marking tape location to the RE.
4. **Quality Acceptance.** The Department will determine acceptance and provide PA based on the following:
  - a. **Pay Adjustment.** The acceptable IRI for the roadway pavement will be the target IRI (T) from Table 401.03.07-8 rounded to the nearest whole number for which full payment will be made and will be determined using the latest available current average IRI (C) data. The number of lots for final pay adjustment will be reduced by the number of lots excluded for each segment shown in Table 401.03.07-7. Lots excluded from final PA will be those with the highest recorded IRI numbers for respective roadway and bridge deck segments. A single average IRI value and the corresponding PA for each 0.01 mile lot will be reported. IRI units are in inches per mile.

Table 401.03.07-7 Pay Adjustment Equations (PAE) for Ride Quality			
Pay Equation Type	Exclusions	Pay Equations	
PA1	As shown in the Special Provisions Table 401.03.07-7A	IRI<T	PA1=0 <sup>2</sup>
		T≤IRI≤170	PA1=PAE
		IRI>170	PA1= -A or Corrective action
PA2	Will include, if tested	IRI ≤ 120	PA2 =0 <sup>2</sup>
		120 < IRI ≤ 170	PA2 = (IRI – 120) x (–\$5.00)
		IRI>170	Maximum Negative Pay or Corrective action
PA3	Will include, if tested	IRI≤120	PA3=0 <sup>2</sup>

PA4	Will include, if tested	120 < IRI ≤ 170	PA3 = PAE
		IRI > 170	PA3 = -A or Corrective action
		IRI ≤ T	PA4 = 0 <sup>2</sup>
		T < IRI ≤ T+80 or 170 whichever is higher	PA4 = (IRI - T) x (-\$1.25)
		IRI > T+80 or 170 whichever is higher	Maximum Negative Pay or Corrective action

$$PAE = \frac{A}{-37.75347 \times \log_e(T) + 194.87} - \frac{A}{-37.75347 \times \log_e(IRI) + 194.87}$$

$$A = 1267.2 \left[ \frac{M}{9} + \frac{PD}{150} \right]$$

P = Bid price of last lift of the pavement structure to be evaluated or price listed in table 401.03.07-7B, whichever is higher, per Ton

D<sup>1</sup> = Design thickness of last lift to be evaluated, Inch

M = Bid price of Milling, per Square Yard

T = Target IRI

- For various design thicknesses of last lift to be evaluated within a segment, calculate the thickness using the following equation:

$$\text{Design thickness of last lift to be evaluated (D)} = \frac{D_1 N_1 + D_2 N_2 + \dots + D_N N_N}{N_1 + N_2 + N_3 + \dots + N_N}$$

Where:

D<sub>N</sub> = Design thickness of the last lift to be evaluated of N sections having same mix, Inch

N<sub>N</sub> = Number of lots of N section with design thickness D<sub>N</sub> of last lift to be evaluated

- Positive pay adjustment will be used to offset negative pay adjustment. Total pay adjustment will not be greater than zero.

THE FOLLOWING IS ADDED:

Table 401.03.07-7A Exclusions for Resurfacing or Reconstruction		
Roadway	Lane Number	Exclusions

Lane designation is by increasing numbers from left to right in the direction of traffic with left lane being Lane 1.

Table 401.03.07-7B Minimum Value of P	
Surface Course Mix	P
Hot Mix Asphalt (Dense Graded) with PG 64-22 binder	\$60.00
Hot Mix Asphalt (Dense Graded) with PG 64E-22 binder	\$70.00
Stone Matrix Asphalt, High Performance Thin Overlay, Ultra-Thin Friction Course, Open Graded or Gap Graded Mixes not specified in this table	\$80.00
Bridge Deck Waterproof Surface Course	\$250.00

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**Table 401.03.07-8 Target IRI for Resurfacing or Reconstruction (T)<sup>3</sup>**

Roadway Type	Current average IRI (C)	New Construction or Reconstruction	Number of Operation for other than New Construction or Reconstruction <sup>5</sup>			
			One <sup>4</sup>	Two <sup>4</sup>	Three <sup>4</sup>	Four or More <sup>4</sup>
Target IRI (T)						
NHS & NJDOT Freeways or Limited Access Highways	≤ 60	50	50	50	50	50
	61 to ≤95		53	50	50	50
	96 to ≤170		55	53	50	50
	171 to ≤200		0.64C <sup>7</sup>	55	53	50
	201 to ≤285			58	55	50
	>286 <sup>8</sup>			60	58	53
NHS & NJDOT Roadways other than Freeways or Limited Access Highways with speed limit > 35 MPH	≤ 60	60	60	60	60	60
	61 to ≤95		63	60	60	60
	96 to ≤170		66	63	60	60
	171 to ≤200		0.64C <sup>7</sup>	66	63	60
	201 to ≤285			69	66	60
	>286 <sup>8</sup>			72	69	63
NHS & NJDOT Roadways other than Freeways or Limited Access Highways with speed limit ≤ 35 MPH	≤ 60	70	70	70	70	70
	61 to ≤95		74	70	70	70
	96 to ≤170		77	74	70	70
	171 to ≤200		0.64C <sup>7</sup>	77	74	70
	201 to ≤285			81	77	70
	>286 <sup>8</sup>			84	81	74
Local Roadway with Posted Speed ≥45 MPH	C	80	0.7C or 80 whichever is higher	0.49C or 80 whichever is higher	0.34C or 80 whichever is higher	0.24C or 80 whichever is higher
Local Roadway with Posted Speed <45 MPH	C	100	0.84C or 100 whichever is higher	0.59C or 100 whichever is higher	0.41C or 100 whichever is higher	0.29C or 100 whichever is higher

1. The Department will determine target IRI (T) of roadways containing multiple speed limits of greater than 35 MPH and less than or equal to 35 MPH based on the following equation:

$$\text{Target IRI of a roadway consists of N Roadway type (T)} = \frac{T_1 L_1 + T_2 L_2 + \dots \dots T_N L_N}{L_1 + L_2 + L_3 + \dots \dots L_N}$$

Where T<sub>N</sub> is the Target IRI of N section and L<sub>N</sub> is the length of N section in miles to the nearest 0.01 mile

- Current average IRI (C) is the average of the latest available preconstruction IRI data.
- The target IRI (T) is selected or calculated from the table and rounded to the nearest whole number.
- Multiply T with 1.05 for HMA over Concrete, if total HMA after proposed treatment is less than 8 inch thick.
- Milling is one operation. Paving each layer of asphalt mix is an individual operation unless plans specify paving a mix in two lifts. In such case, each lift is considered as an operation.
- Construction or reconstruction of full pavement box on subgrade is new construction or reconstruction.
- Use Pay Equation as below:

$$\begin{array}{ll} \text{IRI} \leq T & \text{PA} = 0 \\ \text{IRI} > T & \text{PA} = \text{PAE} \end{array}$$

- For paving over rubblized concrete, use C >286 to determine target IRI, then multiply T with 1.05 if total HMA after proposed treatment is less than 8-inch thick.
- Paving in one lift with no corrective work such as milling, grinding or pre-levelling of at least 25 percent of surface area of existing pavement is one operation.

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- b. **Corrective Action.** The Department may require corrective action or assess the maximum negative pay adjustment as computed in Table 401.03.07-7, if the average IRI after testing is performed of NHS or NJDOT jurisdiction roadway is greater than 170 inches per mile, or average IRI local roadway is greater than T+80 or 170 whichever is higher. If the Department requires corrective action submit a plan for corrective action. If the plan for corrective action is approved and the lot is corrected, the Department will retest and evaluate the corrected area as a new lot that must meet the same requirements as the initial work. If the plan for corrective action is not approved, the Department may require removal and replacement. The replacement work is subject to the same requirements as the initial work.

#### **401.03.08 Core Samples**

REPLACE THIS SUBSECTION WITH THE FOLLOWING:

The LPA will designate an independent testing agency (Laboratory) to perform the quality assurance sampling, testing and analysis. The Laboratory is required to be accredited by the AASHTO Accreditation Program ([www.amrl.net](http://www.amrl.net)). The Laboratory's accreditation must include AASHTO T 166 and AASHTO T 209. The Laboratory Technician who performs the quality assurance sampling shall be certified by the Society of Asphalt Technologists of New Jersey as an Asphalt Plant Technologist, Level 2.

Upon completion of an HMA lot, the Laboratory shall drill cores at random locations at least 12 hours after paving. Take cores in the presence of the RE. The Laboratory will determine air voids from 5 (Five) 6 inch diameter cores taken from each lot in random locations within the traveled way and at least one core in each travel lane. The [HMA Core Sampling Plan](#) form provided on the [Local Aid Website](#) must be utilized by the Laboratory to determine the random locations of the cores. The Laboratory may rerun the random location functions on the HMA Core Sampling Plan form to resolve any conflicts generated by the HMA Core Sampling Plan form and physical limitations of the HMA lot, such as utility conflicts, or the specifications defined herein. The Laboratory must disclose the contents of the HMA Core Sampling Plan with the Contractor to assist in the schedule of construction.

The Laboratory shall use drilling equipment with a water-cooled, diamond-tipped masonry drill bit that produces 6 inch nominal diameter cores for the full depth of the pavement. The Laboratory shall remove the core from the pavement without damaging it. After the Laboratory removes the core, the Laboratory shall remove all water from the hole. The Laboratory shall apply an even coating of tack coat to sides of the hole. The Laboratory shall place cold patching material or HMA in maximum lifts of 4 inches in the hole and compact each lift. If cold patching material is utilized to fill the coring hole, then it is not necessary to apply tack coat to the sides of the hole. The Laboratory shall ensure that the final surface is 1/4 inch above the surrounding pavement surface.

**HMA cores are to be taken from the HMA lot for quality assurance sampling, testing and analysis within seven (7) days of completing the HMA lot.** For test strip lots and the first traveled way lot, the Laboratory shall deliver cores from the field to the testing Laboratory within 48 hours of completing the lot. The Laboratory shall deliver all other acceptance cores within 7 days of completing the lot.

After each air void lot is placed, the Laboratory shall drill cores so that the full depth of the course is recovered for air void acceptance testing. If thickness acceptance testing is required as specified in 401.03.07.I, the Laboratory shall drill the surface course air void cores for the full depth of pavement.

The Laboratory shall utilize a tamper proof core sample box for core storage and transportation. The Laboratory shall ensure that the core sample box can be locked and sealed and is tamper proof in such a manner that it cannot be opened without removing the seals. The Laboratory shall ensure that the core sample box provides protection for the cores from being disturbed or damaged during transit. The Laboratory shall mark the assigned core number on the side of the sample. The Laboratory shall place core samples in the core sample box. The Laboratory shall transport the sealed core sample boxes to the testing Laboratory.

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The Laboratory will not accept damaged core samples for testing. If the core sample box exhibits indications of tampering, the core samples will be rejected. If any core samples are rejected, drill a replacement core at the same offset and within 5 feet of the original station and deliver to the Laboratory as specified above within 48 hours.

If the project is utilizing quality control cores, the Laboratory shall provide the results of the quality control core testing to the Contractor in a timely manner which will not unnecessarily impede construction.

#### 401.04 Measurement and Payment

REPLACE THIS SUBSECTION WITH THE FOLLOWING:

The Department will measure and make payment for Items as follows:

<i>Item</i>	<i>Pay Unit</i>
HMA MILLING, 3" OR LESS	SQUARE YARD
HMA MILLING, MORE THAN 3" TO 6"	SQUARE YARD
CONCRETE MILLING	SQUARE YARD
MICRO-MILLING	SQUARE YARD
HMA PROFILE MILLING	SQUARE YARD
HOT MIX ASPHALT PAVEMENT REPAIR	SQUARE YARD
SEALING OF CRACKS IN HOT MIX ASPHALT SURFACE COURSE	LINEAR FOOT
POLYMERIZED JOINT ADHESIVE	LINEAR FOOT
TACK COAT	GALLON
TACK COAT 64-22	GALLON
POLYMER MODIFIED TACK COAT	GALLON
PRIME COAT	GALLON
HOT MIX ASPHALT _____ SURFACE COURSE	TON
HOT MIX ASPHALT _____ SURFACE COURSE HIGH RAP	TON
HOT MIX ASPHALT _____ INTERMEDIATE COURSE	TON
HOT MIX ASPHALT _____ INTERMEDIATE COURSE HIGH RAP	TON
HOT MIX ASPHALT _____ BASE COURSE	TON
HOT MIX ASPHALT _____ BASE COURSE HIGH RAP	TON

The specified depth of the milling is measured from the original surface to the top of the high spots of the textured surface.

The RE will measure HOT MIX ASPHALT PAVEMENT REPAIR before overlay by the square yard of area bounded by the sawcuts.

The RE will measure TACK COAT, TACK COAT 64-22, PRIME COAT, and POLYMER MODIFIED TACK COAT by the volume delivered, converted to the number of gallons at 60 °F as calculated by the temperature-volume correction factors specified in 902.01.

The RE will measure HOT MIX ASPHALT \_\_\_\_\_ SURFACE COURSE, HOT MIX ASPHALT \_\_\_\_\_ INTERMEDIATE COURSE, and HOT MIX ASPHALT \_\_\_\_\_ BASE COURSE by the ton as indicated on the certified weigh tickets, excluding unused material. When nominal maximum aggregate size 3/8 inch HMA surface course is directed for use in transition (run out) areas, the Department will include this weight with the weight for HOT MIX ASPHALT \_\_\_\_\_ SURFACE COURSE.

The Department will not include payment for polymerized joint adhesive in the various paving Items. The Department will make payment for polymerized joint adhesive under POLYMERIZED JOINT ADHESIVE.

The Department will make a payment adjustment for HMA air void quality per lot by the following formula:

$$\text{Pay Adjustment Per HMA Lot} = - Q \times \text{BP} \times \text{Reduction Per Lot (\%)}$$

Where:

BP =

Bid Price of HMA

Q =

Quantity of HMA in lot receiving payment adjustment

Reduction Per Lot (%) = Air void Reduction (%) per lot as specified in 401.03.07.H.

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The Department will make a payment adjustment for HMA thickness quality per lot by the following formula:

$$\text{Pay Adjustment Per HMA Lot} = - Q \times \text{BP} \times \text{Percent Reduction (\%)}$$

Where:

BP = Bid Price of HMA

Q = Quantity of HMA in lot receiving payment adjustment

Percent Reduction (%) = Thickness Percent Reduction (%) per lot as specified in 401.03.07.I.

The Department will make a payment adjustment for HMA ride quality, as specified in 401.03.07.J.

## SECTION 403 – ULTRA-THIN FRICTION COURSE

### 403.03.01 Ultra-Thin Friction Course

REPLACE THE FIRST PARAGRAPH OF SECTION **401.03.01.F** WITH THE FOLLOWING:

**Test Strip.** Construct a test strip for the first 700 to 1,200 square yards placed of ultra-thin friction course. If the ultra-thin friction course paving lot area is less than 700 square yards, the Regional District Local Aid Office may waive the coring requirement. Operate spray paver without mix to determine tack coat application rate for the project. Ensure that the polymer modified tack coat has been placed as specified in 401.03.05. Transport and deliver, spread and grade, and compact as specified in [403.03.01.D](#), [403.03.01.E](#), and [403.03.01.F](#), respectively, and according to the approved paving plan. While constructing the test strip, record the following information and submit to the RE:

## SECTION 405 – CONCRETE SURFACE COURSE

### 405.03.02 Concrete Surface Course

#### A. Concreting Plan.

PART (4) IS CHANGED TO:

4. Lighting plan for night operations as specified in 108.06.

#### J. Ride Quality Requirements.

##### 4. Quality Acceptance.

##### a. Pay Adjustment.

THE FOLLOWING IS ADDED:

Table 405.03.02-1A Exclusions for Concrete Surface Course		
Roadway	Lane Number	Exclusions

Lane designation is by increasing numbers from left to right in the direction of traffic with left lane being Lane 1.

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## **DIVISION 420 – PAVEMENT PRESERVATION TREATMENTS**

### **SECTION 421 – MICRO SURFACING AND SLURRY SEAL**

#### **421.03.03 Micro Surfacing Aggregate and Micro Surfacing Emulsion**

##### **A. Micro Surfacing Plan.**

PART (4) IS CHANGED TO:

4. Lighting plan for night operations as specified in 108.06 for milling and paving.

##### **J. Ride Quality Requirements.**

##### **4. Quality Acceptance.**

##### **a. Pay Adjustment.**

THE FOLLOWING IS ADDED:

Table 421.03.03-2A Exclusions for Micro Surfacing or Slurry Seal		
Roadway	Lane Number	Exclusions

Lane designation is by increasing numbers from left to right in the direction of traffic with left lane being Lane 1.

### **SECTION 422 – FOG SEAL**

#### **422.03.01 Fog Seal Surface Treatment**

##### **A. Fog Sealing Plan.**

PART (5) IS CHANGED TO:

5. Lighting plan for night operations as specified in 108.06 for paving.

## **DIVISION 450 – CONCRETE PAVEMENT REHABILITATION**

### **SECTION 454 – DIAMOND GRINDING EXISTING CONCRETE PAVEMENT**

#### **454.03.02 Ride Quality Requirements**

**4. Quality Acceptance.** The Department will determine acceptance and provide PA based on the following:

**a. Pay Adjustment.**

THE FOLLOWING IS ADDED:

Table 454.03.2-1A Exclusions for Diamond Grinding		
Roadway	Lane Number	Exclusions

Lane designation is by increasing numbers from left to right in the direction of traffic with left lane being Lane 1.

## DIVISION 500 – BRIDGES AND STRUCTURES

### SECTION 502 – LOAD BEARING PILES

#### 502.03.03 Driving Piles

##### C. Test Piles.

###### 1. Static Pile Load Test.

Apply a total of \_\_\_\_\_ tons of static test load to the piles.

###### 2. Dynamic Pile Load Tests.

### SECTION 504 – STRUCTURAL CONCRETE

#### 504.01 DESCRIPTION

THE FOLLOWING IS ADDED:

This Section also describes the requirements for the application of color stain and primer to concrete structures and staining other areas as described herein and as shown on the plans.

#### 504.02 Materials

THE FOLLOWING MATERIAL IS ADDED TO THE LIST

Concrete Stain ..... 912.01.04

#### 504.03.02 Concrete

##### G. Removal of Forms and Falsework.

Do not remove forms and falsework until the concrete obtains a compressive strength of \_\_\_\_\_ pounds per square inch.

THE FOLLOWING SUBPART IS ADDED:

#### 504.03.04 Concrete Staining

Prior to staining, examine the surfaces to be stained. Bring areas requiring patching or repair to the attention of the RE.

**A. Submittals.** Submit product information and manufacturer color chip sample for approval by the Office of Landscape Architecture.

**B. Cleaning.** After the concrete areas and any patching has cured for at least 28 days, power wash all surfaces for initial preparation at a minimum pressure of 2,500 psi using a 25 degree tip and a standoff distance of 2 feet. Verify that all foreign materials, such as dirt, dust and form oil, have been removed and surfaces are clean prior to application of primer and stain. If contaminants are still present after initial preparation, vary power washing parameters or use other suitable methods to clean surfaces.

**C. Test Staining.** Complete a test staining program for porosity, adhesion, and color acceptance before staining operations on approved textural mock-ups or in place according to contract plans. Test area(s) to include both smooth and textured concrete sections. Prepare test area for initial surface preparation as described in 504.03.04.B for inspection by the RE. If the staining mock-ups are approved, they may be included as part of the final construction.

After concrete has cured, test for porosity prior to testing for adhesion or color acceptance, on both the smooth concrete section and the textured concrete section by spraying water onto the surface to be stained. Notify the RE if the water does not absorb rapidly as per manufacturers recommendations.

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If the concrete passed the porosity test, apply production stain to concrete as specified in 504.03.04.D. After the manufacturer's recommended drying time of the stain, test for satisfactory adhesion of stain as described in Table 912.01.04-1.

The final stain color scheme will be approved by the Office of Landscape Architecture in the field after reviewing and approving the test stain program. Do not order final quantities of stain and primer until approved. When approved the sample area will serve as a standard of acceptance for all further work.

- D. Stain and Primer.** Apply one coat of primer and one coat of stain to smooth concrete surfaces. Apply one coat of stain, only to textured concrete surfaces.
- E. Stain Colors.** See the Special Provisions for stain colors.

#### **504.04 MEASUREMENT AND PAYMENT**

THE FOLLOWING ITEM IS ADDED:

<i>Item</i>	<i>Pay Unit</i>
CONCRETE STAINING	SQUARE YARD

### **SECTION 505 – PRECAST AND PRESTRESSED STRUCTURAL CONCRETE**

#### **505.03.01 Pretensioned Prestressed Concrete Beam and Prestressed Concrete Beam**

THE FIRST PARAGRAPH IN PART A IS CHANGED TO:

- A. Working Drawings.** Submit working drawings for certification, as specified in 105.05, that include the class of concrete, the pattern and schedule for releasing strands before detensioning, detensioning concrete strength, and tensioning and detensioning patterns.

PART C IS CHANGED TO:

- C. Erection Plan.** Submit working drawings for approval, as specified in 105.05, regarding the plan of operations to the RE at least 30 days before the pre-erection meeting. Include, at a minimum, the following in the plan:
  - 1. Number and type of manpower and equipment.
  - 2. Shipping procedures.
  - 3. Lifting procedures.
  - 4. Erecting sequence.
  - 5. Temporary bracing.
  - 6. Manufacturer's recommendations.
  - 7. Procedures for employee safety.
  - 8. Traffic control and protection.
  - 9. Method of post-tensioning and determining friction loss.
  - 10. Anchorage details and design calculations, signed and sealed by a Professional Engineer.

#### **505.03.02 Precast Concrete Culvert**

PART A IS CHANGED TO:

- A. Working Drawings.** Submit working drawings for approval, as specified in 105.05, that show plan, elevation, and sections as well as details for all appurtenances such as headwalls, cutoff walls, wingwalls, and aprons. In addition, include details of the neoprene gasket between the precast concrete culvert units as well as all threaded inserts, bar extensions, waterproofing, and end anchorage details for the post-tensioning reinforcement. Provide erection details including handling points, neoprene gasket details, the method for pulling the culvert boxes together, section lengths, and the method of installing the units.

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## SECTION 506 – STRUCTURAL STEEL

### 506.03.01 Structural Steel PART B IS CHANGED TO:

- B. Erection Plan.** At least 30 days before the pre-erection meeting, submit working drawings for approval, as specified in 105.05, regarding the plan of operations to the RE. Include, at a minimum, the following in the plan:
1. Number and type of manpower and equipment.
  2. Shipping procedures.
  3. Lifting procedures.
  4. Beam erecting sequence, including method of setting bearings and diaphragms.
  5. Temporary bracing.
  6. Manufacturer's recommendations.
  7. Procedures for employee safety.
  8. Traffic control and protection.

## SECTION 507 – CONCRETE BRIDGE DECK, BRIDGE PARAPET, AND APPROACHES

### 507.03.02 Concrete Bridge Deck

**A. Forms.** Construct forms as follows:  
THE FIRST PARAGRAPH IN PART 1 IS CHANGED TO:

1. **Stay-In-Place (SIP) Forms.** Submit working drawings for approval, as specified in 105.05, that include the following:
  - a. Deck reinforcement location.
  - b. Grade of steel.
  - c. Galvanizing specification.
  - d. Physical and section properties for all permanent steel bridge deck form sheets.
  - e. Locations where the forms are supported by steel flanges subject to tensile stresses.

### 507.03.05 Concrete Parapet and Concrete Barrier Curb THE FOLLOWING PART 3 IS ADDED:

3. **Concrete Staining.** Perform concrete staining as specified in 504.03.04.

### 507.04 MEASUREMENT AND PAYMENT THE FOLLOWING IS ADDED:

The Department will not include Concrete Staining under Concrete Parapet and Concrete Barrier Curb. The Department will make payment for Concrete Staining under CONCRETE STAINING.

## SECTION 510 – TIMBER STRUCTURES

### 510.03.02 Sheeting and Wales

## SECTION 512 – SIGN SUPPORT STRUCTURES

### 512.04 MEASUREMENT AND PAYMENT THE FOLLOWING ITEMS ARE ADDED:

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

*Item*  
 CANTILEVER SIGN SUPPORT, DMS STRUCTURE NO. \_\_\_\_  
 BUTTERFLY SIGN SUPPORT, DMS STRUCTURE NO. \_\_\_\_

*Pay Unit*  
 UNIT  
 UNIT

THE FOLLOWING IS ADDED:

The Department will make payment for drilled shaft foundations for sign supports under DRILLED SHAFT FOR SIGN STRUCTURE FOUNDATION as specified in 51.04.

THE FOLLOWING SECTION IS ADDED:

### **SECTION 513 – RETAINING WALLS**

THE FOLLOWING SUBPART IS ADDED:

#### **513.03.03 Concrete Staining**

Perform concrete staining as specified in 504.03.04.

#### **513.04 MEASUREMENT AND PAYMENT**

THE FOLLOWING IS ADDED:

The Department will make payment for CONCRETE STAINING as specified in 504.04.

### **SECTION 514 – TEMPORARY STRUCTURES**

#### **514.03.01 Temporary Structures**

PART A IS CHANGED TO:

- A. Working Drawings.** At least 30 days before beginning the work, submit working drawings for approval, as specified in 105.05.

PART B IS CHANGED TO:

- B. Erection Plan.** At least 30 days before beginning work, submit to the RE a plan for approval, as specified in 105.05, that includes the proposed equipment, detailed erection instructions and drawings of all structures, and the proposed scheme for traffic control during the erection and use.

### **SECTION 51 - DRILLED SHAFT FOUNDATIONS FOR SIGN SUPPORT STRUCTURES**

#### **51.01 DESCRIPTION**

This work describes the requirements for installing drilled shafts for sign support structures.

#### **51.02 MATERIALS**

##### **51.02.01 Materials**

Provide materials as specified:

Concrete .....	903.03
Self Consolidating Concrete .....	903.06.01
Grout .....	903.08.02
Reinforcement Steel .....	905.01
Drilled Shaft Casing .....	906.03
Structural Steel Paint (Organic Zinc) .....	912.01.01

PROVIDE PROJECT ROUTE/CONTRACT NO.  
 OR PROJECT IDENTIFICATION.

Water..... 919.08

Provide clay-mineral based slurry (processed attapulgite or bentonite) for mineral slurry. Ensure that the mineral slurry has a mineral grain size that will remain in suspension and has sufficient viscosity and gel characteristics to transport excavated material to a suitable screening system. Ensure that the percentage and specific gravity of the material used to make the mineral suspension is sufficient to maintain the stability of the excavation and to allow proper concrete placement.

Provide polymer slurry as recommended by the manufacturer.

#### **51.02.02 Equipment**

Provide equipment as specified:

Concrete Batching Plant..... 1010.01  
Concrete Trucks ..... 1010.02

Ensure that equipment does not introduce uncontrolled exhaust fumes into the surrounding areas, or other occupied areas adjacent to the work site. Crane and drilling engine exhaust fumes will require their own separate exhaust systems adequately vented to the atmosphere away from any confined work sites.

Ensure that equipment used for final bottom cleaning does not have a centralizing guide at the tip.

Use excavation and drilling equipment having adequate capacity, including power, torque, and down thrust to excavate a hole of both the maximum specified diameter and to a depth of 20 percent beyond the depths shown on the plans when operated at rated capacity.

Provide Crosshole Sonic Logging (CSL) test equipment that includes the following components:

1. A microprocessor-based CSL system for display of individual CSL records, analog-digital conversion, and recording of CSL data, analysis of receiver responses, and printing of CSL logs.
2. Ultrasonic source and receiver probes for 1.5 or 2 inch inner diameter pipe, as appropriate.
3. An ultrasonic voltage pulser to excite the source with a synchronized triggering system to start the recording system.
4. A depth measurement device to determine and record depths.
5. Appropriate filter/amplification and cable systems for CSL testing.

### **51.03 CONSTRUCTION**

#### **51.03.01 Working Drawings and Calculations**

Submit 6 copies of the following items to the RE for approval:

1. A summary of the Contractor's or his specialized drilled shaft subcontractor's experience on projects of a similar nature and scope. Select and obtain approval from the RE for the use of a specialty subcontractor. Approval will be based on qualifications and previous experience on similar projects.
2. List and size of proposed equipment including cranes, drills, augers, bailing buckets, final cleaning equipment, desanding equipment, slurry pumps, concrete pumps, temporary steel casing, slurry sampling, and testing equipment.
3. Details of equipment and procedures for drilled shaft installation, including drawings showing consecutive steps of drilled shaft installation and drawings with measurements showing that the proposed equipment can perform the specified work. Identify in the drawings the areas that are planned to be used for staging the work. Specify the proposed sequence of the drilled shaft installation including details of concrete placement and splicing and centering devices for reinforcement steel.
4. Approval for the concrete mix design that is to be used for the work.
5. Slurry details including proposed methods of mixing, placing, and circulating.
6. Details of shaft excavation methods.
7. Details of proposed methods to clean the shaft after initial excavation.
8. Procedures for control and removal of spoils.
9. Details of shaft reinforcement steel, including methods to ensure centering, required cover, cage integrity during placement, placement procedures, and cage support.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

10. Details of concrete placement including proposed operational procedures for concrete pump or tremie including initial placement, raising during placement, overfilling of the shaft concrete, and provisions to prepare the completed shaft top at its final shaft top elevation.

#### **51.03.02 Shaft Drilling**

Perform the excavations required for the shafts through whatever materials are encountered, to the dimensions and elevations shown in the plans or otherwise required by these specifications. Ensure that the equipment is capable of constructing shafts to a depth equal to the deepest shaft shown in the plans plus 15 feet or 3 times the shaft diameter, whichever is greater.

Provide, for all drilled shafts, an approved fixed template that is adequate to maintain the shaft position and alignment during all excavation and concreting operations.

Install a suitable temporary casing for the full depth of the drilled shaft. Ensure that all drilled shafts meet construction tolerance criteria and are installed in accordance with the dimensions as shown on the plans, or as directed by the RE.

Ensure that the top center of each drilled shaft does not vary from the plan location by more than 3 inches. At the top of the drilled shaft, ensure that reinforcement steel does not vary in plan distance from the plan shaft by more than 1 inch. Ensure that the drilled shaft does not vary from the vertical by more than 1 percent of its length, as measured above ground and is not out of the required position at the top by more than 3 inches.

Protect any existing utility that is to remain within the drilled shaft installation work zone in accordance with the requirements of authorities having jurisdiction over same. Repair or replace any construction-induced damage to the satisfaction of the governing authority.

Employ within the contract bid price, a licensed registered Land Surveyor, experienced in the type of work, who will establish lines and grades. Assume responsibility for the correct location of drilled shafts and for keeping a record of drilled shafts that are installed.

Locate the drilled shaft locations and provide a stake out of the locations prior to the start of installation work. Maintain all location stakes along with required elevation designations.

#### **51.03.03 Shaft Concrete**

Ensure that the handling, measuring, proportioning, mixing, and placing of concrete conforms to these specifications. Place concrete only in the presence of the RE.

Place concrete by using concrete pumps or a tremie pipe from the bottom of the excavation upward so as to avoid segregation. Do not inject air, water, or slurry into the shaft concrete during placement. Use a disposable foam or rubber plug in the concrete pump line or tremie pipe to separate the fresh concrete from the slurry at the start of concrete placement. Insert the plug so that the first flow of concrete pushes the plug out of the pipe and prevents slurry mixing and contamination as the concrete placement commences. Ensure that the concrete pump line or tremie consists of a tube constructed in sections that have flanged couplings fitted with gaskets. Ensure the means of supporting the concrete pump line or tremie so as to permit free movement of the discharge end over the entire top of the concrete and to permit its being lowered rapidly when necessary to choke off or retard the flow. If used, fill the tremie by a method that prevents washing of the concrete. Submerge the discharge end completely in the concrete at all times after initiation of the concrete placement flow. Ensure that the concrete line contains sufficient concrete to prevent any water entry. Maintain the concrete level at the top of the drilled shaft until the concrete has set.

If concrete flow is halted and the concrete line's discharge end is for any reason raised out of the shaft concrete, reinitiate the placement only after fully recharging the concrete line with fresh concrete by the following:

1. Inserting a foam or rubber plug or pig into the concrete line at the concrete hopper end.
2. Placing the discharge end approximately 6 inches above the top of the shaft concrete.
3. Recharging the pump or tremie line and depositing what will be classified as waste concrete on the top of the previously placed concrete.
4. Discharging waste concrete until the line is fully recharged with fresh concrete and the pig is pushed completely through the line.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.



5. Without halting the flow of fresh concrete plunging the discharge end of the concrete line into the shaft concrete to within 6 inches or less of the shaft bottom or to a level as directed by the RE.
6. Continuing the concrete placement without further interruption.
7. Placing a final volume of additional concrete in the shaft that is no less than the volume of waste concrete placed to recharge the line in the process of resuming the concrete flow

Apply this procedure without exception as necessary to avoid injecting any air, any water, any slurry, or any concrete that has flowed through a line filled with air, water, or slurry into the shaft concrete.

Do not initiate boring a new shaft hole that is within 5 drilled shaft diameters of a previously installed drilled shaft, until the concrete has been in place for a minimum of 2 days.

#### **51.03.04 Shaft Construction Timing**

Make every effort to plan, coordinate, and carry out the work to minimize the time between the start of excavation and completion of shaft concrete placement. In general, the time between shaft excavation and completion of concrete placement is expected to be 8 continuous hours or less.

For cases where 2 or more continuous hours elapse between completion of excavation and commencement of concrete placement, remove any reinforcement steel already placed in the shaft, clean the shaft bottom, replace the reinforcement steel in the shaft and immediately commence the placement of the concrete.

#### **51.03.05 Shaft Reinforcement Steel**

Where shafts are extended at the direction of the RE to final authorized tip elevations that are lower than the estimated minimum tip elevations, extend no fewer than 1/2 of the vertical reinforcement steel (every other bar around the circumference) to the authorized tip elevation by lap splicing or mechanical splicing. Firmly tie lap splices so as to support the full weight of the cage above the lap zone. Add horizontal bands in the bottom extension zone at a vertical spacing that is no more than 6 inches center to center.

#### **51.03.06 Shaft Top Preparation**

If tremie concrete is used, consider the top-most concrete placed in the shaft to be waste concrete and either:

1. Completely eject out of the top of the casing the wasted concrete or,
2. Pump the waste upward to a level that is at least 2 feet clear distance above the plan shaft top level and allow it to cure in place for removal later.

Consider waste concrete to be the top 2 feet of initial concrete that is placed, plus

1. The height of any additional volume of waste concrete deposited in the shaft where concrete placement was halted and restarted, plus
2. Any additional amount necessary to produce full strength non-segregated concrete at the plan shaft top level.

Where the above waste concrete alternative 1 is selected, permit the waste concrete to evenly overflow the full top circumference of the casing. Do not channel or bleed off by notches or holes cut in the casing top. Any fresh concrete in the casing at a level above the plan shaft top level after ejecting all waste concrete may be dipped or pumped out to the plan top elevation while still plastic by methods and equipment approved by the RE, or be allowed to cure in place for removal later.

Final shaft top preparation may commence only after the drilled shaft concrete obtains its verification strength. In lieu of concrete strength testing, the preparation may begin 7 full days after completion of concrete placement. Final top preparation steps will consist of the following:

1. Cutting off any extra casing above the top of casing elevation.
2. Cutting off any cured over pour concrete to the plan shaft top elevation by approved methods.
3. Dressing the final shaft top surface.
4. Verification by the RE that the exposed concrete consists of full strength concrete with a typical, non-segregated mortar and aggregate distribution.
5. Approved non-destructive strength testing by the Contractor where required by the RE to verify that concrete has attained its full design strength.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

6. Removal of additional concrete below the plan shaft top level as necessary to reach full-strength, non-segregated concrete.
7. Preparation of the shaft top key recess.

#### **51.03.7 Shaft Acceptance**

Provide a comparison of the computed volume of the excavation (theoretical) with the volume of concrete actually placed. Plot depth versus volume chart. Provide cooperation and whatever assistance necessary to accurately monitor the volume of concrete that is placed at all times during the pour.

Unaccepted drilled shafts are drilled shafts that are rejected by the RE because of damage, failure to advance through obstructions, mislocation, misalignment, or failure to install the drilled shaft to the proper bearing stratum. Submit a written plan of action to the RE for approval showing how to correct any problem and how to prevent a reoccurrence. Repair the drilled shaft or replace it to the satisfaction of the RE. To mitigate and/or to remedy unaccepted drilled shafts, the Contractor may be required to provide additional drilled shafts or supplement drilled shafts to meet specified requirements at no cost to the State.

When acceptably installed drilled shafts exceed specified tolerances, provide an accurate as-built survey. If the load on any drilled shaft exceeds 10 percent of the specified load capacity, make as-directed corrections.

#### **51.04 MEASUREMENT AND PAYMENT**

The Department will measure and make payment as follows:

<i>Item</i>	<i>Pay Unit</i>
DRILLED SHAFT FOR SIGN STRUCTURE FOUNDATION	LINEAR FOOT

## **DIVISION 600 – MISCELLANEOUS CONSTRUCTION**

### **SECTION 609 – BEAM GUIDE RAIL**

#### **609.03.01 Beam Guide Rail**

THE FOLLOWING IS ADDED AT THE END OF THE SUBSECTION:

Remove trees and shrubs as specified in 801.03 and 802.03 from the entire guide rail element extending 4 feet behind the guide rail post.

#### **609.03.05 Reset Beam Guide Rail**

THE FOLLOWING IS ADDED AT THE END OF THE SUBSECTION:

Remove trees and shrubs as specified in 801.03 and 802.03 from the entire guide rail element extending 4 feet behind the guide rail post.

### **SECTION 610 – TRAFFIC STRIPES, TRAFFIC MARKINGS, AND RUMBLE STRIPS**

#### **610.03.03 RPMs (Raised Pavement Markers)**

THE FOLLOWING IS ADDED AFTER THE LAST PARAGRAPH:

Ensure that RPMs are installed within 14 days of opening each day's surface paving to traffic.

#### **610.03.07 Rumble Strip**

Route	Weigh-in-Motion (WIM) Systems Midpoint Station

THE FOLLOWING IS ADDED AFTER THE LAST PARAGRAPH:

Ensure that rumble strips are constructed within 14 days of opening each day's surface paving to traffic.

THE FOLLOWING SUBPART IS ADDED:

#### **610.03.09 Removal of Rumble Strip**

Prior to shifting lanes, remove rumble strips as indicated in the plans and as directed by the RE.

Centered over the rumble strip, mill the width of the rumble strip plus 4 inches beyond the edge of the rumble strip on both sides. Mill to a minimum depth of 2 inches.

Clean the milled area as specified in 401.03.01.A. Obtain RE approval of the removal before proceeding with paving in the milled rumble strip.

Apply polymerized joint adhesive to the vertical surfaces of the milled rumble strip area as specified in 401.03.04. Apply tack coat as specified in 401.03.05 at an application rate of 0.15 gallons per square yard to bottom surface of the milled rumble strip area. Spread and grade HMA surface course in the milled rumble strip area as specified in 401.03.07.E. Ensure that the temperature of the HMA when placed and compacted is at least 250 °F. Compact as specified in 401.03.07.F, ensuring that the top of the compacted HMA is flush with, or not greater than 1/8 inch higher than, the adjacent pavement surface.

Reuse removed material as specified in 202.03.03.C.

#### **610.04 MEASUREMENT AND PAYMENT**

THE FOLLOWING ITEM IS ADDED:

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

*Item*  
REMOVAL OF RUMBLE STRIP

*Pay Unit*  
LINEAR FOOT

THE FOLLOWING SECTION IS ADDED:

### **SECTION 61 – NOISE BARRIERS**

THE FOLLOWING SECTION IS ADDED:

### **SECTION 61 – ARCHITECTURAL TREATMENTS**

THE FOLLOWING SECTION IS ADDED:

### **SECTION 61 – RUBBLE WALLS**

## **DIVISION 650 – UTILITIES**

### **SECTION 651 – WATER**

#### **651.02 MATERIALS**

##### **651.03.02 Ductile Iron Water Pipe, Bridge**

### **SECTION 652 – SANITARY SEWERS**

#### **652.02 MATERIALS**

##### **652.03.01 Sewer Pipe**

##### **G. Sewer Pipe Testing.**

##### **1. Gravity Main Sewer Testing.**

##### **652.03.02 Ductile Iron Sewer Pipe, Bridge**

### **SECTION 653 – GAS**

#### **653.03.01 Gas Main**

##### **A. Prequalification.**

List of prequalified subcontractors is as follows:

##### **C. Handling and Storing.**

##### **J. Air-Pressure Test.**

THE FOLLOWING SECTION IS ADDED:

### **SECTION 65 – JCP&L FACILITY**

#### **65.01 DESCRIPTION**

This Section describes the requirements for installing, relocating, and removing Jersey Central Power and Light (JCP&L) electric utility facilities including conduits, manholes, transformer vaults, handholes, and appurtenances and also includes the requirements for transferring electric services.

#### **65.02 MATERIALS**

Except for the materials noted below, JCP&L will supply all materials necessary for the work at no cost to the Contractor. Provide JCP&L written notice 30 days in advance of when materials will be required. Ensure the electric subcontractor takes delivery of the materials from JCP&L's storage facility within 2 weeks of the notice from JCP&L indicating that the material is available. Materials may be located at more than one JCP&L storage facility. If the electric subcontractor fails to take delivery, the material may not be available, and the electric subcontractor may be required to provide an additional request for materials. The Contractor is responsible for compensating the Department for any additional handling costs incurred by JCP&L resulting from the failure to take delivery within the time required.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

The electric subcontractor is responsible for loading the material, delivering it to the job site, and all subsequent handling and delivery within the jobsite. Store and protect all materials received from JCP&L. Return and deliver all excess materials furnished by JCP&L to JCP&L's storage facility. Obtain a receipt for all material received from JCP&L, maintain a documented inventory of materials used and obtain a receipt for all material returned to JCP&L.

Provide materials as specified:

Tack Coat 64-22, PG 64-22 .....	902.01.01
Hot Mix Asphalt (HMA).....	902.02
Concrete .....	903.03
Controlled Low Strength Material (CLSM).....	903.09
Curing Materials .....	903.10
Joint Sealer, Hot-Poured .....	914.02
Polymerized Joint Adhesive.....	914.03

### 65.03 CONSTRUCTION

#### 65.03.01 Electric

- A. Prequalification.** Only a prequalified electric subcontractor, approved by JCP&L, may construct and relocate JCP&L electric facilities.

A list of the prequalified electric subcontractors is available at [http://www.njua.com/utility\\_relocations](http://www.njua.com/utility_relocations).

The Contractor is responsible for soliciting from a subcontractor that will be approved by JCP&L when preparing its Bid. Work restricted to the electric subcontractor does not preclude the Contractor from performing the work of layout, traffic control, sawcutting, pavement removal, temporary or final pavement restoration, and landscape restoration associated with the work of installing or relocating JCP&L electrical facilities.

- B. Indemnification.** The Contractor agrees to indemnify and hold harmless JCP&L, its officers, employees, and agents from liability and claims related to the work described under this Section. This requirement does not establish JCP&L as a third party beneficiary; the provisions specified in 107.10 are unaltered.
- C. Scheduling of Work and Interruption to Utilities.** Provide the RE and the designated JCP&L representative with a detailed schedule of when the electric utility work will be performed. Indicate in the schedule for each activity the following information: the work locations; the number of crews; and whether the work will be performed during a day shift or night shift, or on weekends. Coordinate all electric utility work with the JCP&L representative, and notify the RE and the JCP&L representative at least 2 weeks prior to starting electric utility work. Do not interrupt existing electric service until approved by the JCP&L representative.

Weather conditions may prevent connections to existing systems between June 1 and September 30. Do not perform work which will require electric transmission service interruptions from June 1 through September 30 without the approval of JCP&L. JCP&L may extend this period based on weather conditions and system demand. Notify JCP&L at least 1 month in advance of commencing conductor work.

If service transfers are required, coordinate service transfers with the JCP&L representative. Notify the property owner and all tenants affected by service interruptions or transfers prior to making the service transfer. Minimize disruption to normal operations of existing facilities and minimize any interruption of electric service to JCP&L customers. Protect existing facilities during construction and installation of the service transfer.

- D. Quality Control and Quality Assurance.** Provide access to the work for the JCP&L representative at all times. Perform all electric utility work in a manner acceptable to the JCP&L representative. Perform all electric utility work in accordance with JCP&L standards and details.
- E. Safety.** Perform work in accordance with applicable OSHA regulations, N.J.S.A. 34:6-47.1 et seq. "High Voltage Proximity Act", and JCP&L safety standards.
- F. Abandonment and Removal.** Prior to beginning work, review the condition of all existing electric utility facilities noted to be removed with the JCP&L representative. If the JCP&L representative designates the material to be salvaged, remove the material and deliver it to a JCP&L storage facility. Remove and dispose of all other electrical utility material designated for removal.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

- G. Excavation.** When excavation is required in areas having existing pavement and sidewalk, sawcut to the full depth of the existing pavement and sidewalk. Excavate trenches for conduit, manholes and vaults and appurtenances. Provide vertical sides for excavations within the traveled way, shoulder, sidewalk areas, and where existing facilities require protection. Remove unstable material at the bottom of the excavation and backfill with granular material. Do not excavate trenches more than 300 feet in advance of installing conduit unless approved by the RE. Provide and maintain trench crossings where necessary to maintain access. Do not leave trenches open overnight unless protected by temporary fencing or steel plates. Remove and dispose of excess or unsuitable material as specified in 202.03.03.C.2.
- H. Backfill.** Backfill with suitable material in lifts not exceeding 6 inches thick, loose measurement. If the backfill is predominantly granular material, compact the backfill material with a vibratory plate compactor. For material that is not predominately granular, compact the backfill material with a vibratory rammer compactor. If it is not possible to compact the backfill material, the Contractor may backfill with CLSM with the approval of the JCP&L representative. If using CLSM, install as specified in 601.03.01.F.
- I. Restoration.** Restore areas disturbed in the performance of electrical utility relocations to its original condition. In areas that are disturbed for which the plans provide final grading, pavement or landscaping, provide temporary restoration to the satisfaction of the RE. If open-cut trenching across a road is required, restore the pavement with in-kind construction.
- J. Field Testing.** Perform a high-potential test (also known as a dielectric voltage withstand test) on all cables and splices prior to energizing. Testing must be performed by a person who is qualified to operate the test equipment, and is familiar with the cable system. Ensure that the cables are disconnected from non-cable systems equipment, and that adequate physical clearances are maintained between all cable ends, energized cables, and electrical grounds and all other equipment during the test. Prior to performing the test, verify that all taps or laterals in the circuit are cleared. In the event hot poured compound filled splices and terminations are involved, do not perform testing until they have cooled to ambient temperature. Set the relays in the high voltage direct current test equipment to operate between 5 and 25 milliamperes leakage. The shape of the leakage curve under constant voltage is more important than the absolute leakage current of a “go or no go” withstand test result. The field test voltage is related to the final factory applied dc potentials using a factor of 80 percent.

Ensure the high potential test is performed in the presence of the JCP&L representative. Apply a direct current field test voltage according to the following table:

Field Test Values				
Rated Voltage	dc Hi-Pot Test		dc Hi-Pot Test	
Phase to	(15 Minutes)			
Phase	Wall - mils	Kv	Wall - mils	kV
5000	90	25	115	35
8000	115	35	140	45
15000	175	55	220	65
25000	260	80	320	95
28000	280	85	345	100
35000	345	100	420	125
46000	445	130	580	170
69000	650	195	650	195

Note: If the leakage current quickly stabilizes, the duration may be reduced to 10 minutes.

After the voltage has been applied and the test level reached, record the leakage current at 1 minute intervals. If the leakage current decreases or stays steady after it has leveled off, the cable is considered satisfactory. If the leakage current starts to increase, excluding momentary spurts due to supply-circuit disturbances, extend the test to see if the rising trend continues. At the conclusion of the test, discharge the circuit through the test set and voltmeter circuit. After the potential drops below 95 percent of the test value, ground the cable, and discharge the circuit. Leave the grounds on all conductors for a minimum of 4 times as long as the test voltage was applied.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

Remove and replace cables that fail to meet the requirements of the direct current field test. The Contractor is responsible for reimbursing the Department for any additional material costs incurred by the Department resulting from the failure to meet the requirements of the direct current field test.

- K. Energizing Lines.** Energize lines with the guidance of the JCP&L representative. Prior to energizing lines, submit a request to JCP&L. Switching orders may only originate from JCP&L employees. Submit a request for permission to energize transmission lines 10 days in advance of when the work will be performed. Request permission to energize distribution lines in a manner that will permit the JCP&L representative to submit a request to JCP&L's Dispatch Office by 12:00 p.m. the previous working day.
- L. As-builts.** Upon completion of the work, submit to JCP&L as-built drawings in accordance with JCP&L standards. Prints of construction drawings, marked to show the final location, are acceptable. Provide a copy of the as-built drawings to the RE.

**65.04 MEASUREMENT AND PAYMENT**

The Department will measure and make payment for Items as follows:

<i>Item</i>	<i>Pay Unit</i>
ELECTRICAL UTILITY RELOCATION, JCP&L	LUMP SUM



## DIVISION 700 – ELECTRICAL

### SECTION 701 – GENERAL ITEMS

#### 701.03.01 Existing Systems

THE FOLLOWING IS ADDED:

If new cable or wire is designated to be installed into existing conduit systems, clean and swab the conduit system prior to installing the cable or wire. After cleaning, test each conduit by pulling through a metal ball with a diameter at least 85 percent of the nominal inside diameter of the conduit to ensure the conduit is free of any obstruction or foreign material. If the ball fails to pass through the conduit, repair or replace the defective conduit as directed by the RE. Restore disturbed areas to original condition.

#### 701.03.15 Cable and Wire

##### C. Connection and Coordination with Utility Services.

THE FOLLOWING IS ADDED:

Obtain and provide for utility services required for testing and operation of ITS systems until interim acceptance of each system or device. Utility Services may be governed by differing Authorities Having Jurisdiction (AHJ). Along with Utility Requirements, comply with all AHJ requirements. Upon successful completion of level C testing and acceptance of any device, provide the RE with a letter requesting transfer of utility services providing the latest copy of the utility bill from each utility company. Such transfers are to be effective beginning the next monthly billing cycle after completion of successful ITS system testing as specified in Section 704 and interim acceptance of the device or as directed by the RE.

Once new utility services have been energized or activated and the utility company has de-energized and unhooked the old service connection; remove existing pole risers and service heads, cut back 1 foot below grade, and plug the conduits.

Service Requests										
Device Site No.	Primary Route	Final MP	Direction	Location	Township	County	Utility Territory	Job No.	Utility Contact Person	Utility Pole No.

### SECTION 703 – HIGHWAY LIGHTING

#### 703.03 CONSTRUCTION

THE SECOND SENTENCE IN THE FOURTH PARAGRAPH IS CHANGED TO:

Begin repair of the highway lighting system within 2 hours of receiving notice of damage or malfunction from the Department, State police, or local authorities.

##### 703.03.07 Temporary Highway Lighting System

The Contractor must design the Temporary lighting system at \_\_\_\_\_.

Deliver and unload salvaged materials to:

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

## **SECTION 704 – INTELLIGENT TRANSPORTATION SYSTEMS (ITS)**

### **704.02.01 Materials**

#### **704.03.01 General System (GS)**

##### **B. Installation.**

- 1. Junction Box ITS.**
  - a. Installation.**
- 6. Control Center System.**
- 7. Meter Cabinet ITS.**

#### **704.03.02 Camera Surveillance System (CSS)**

##### **F. Equipment Training.**

#### **704.03.03 Fiber Optic Cable**

##### **F. Equipment Training.**

#### **704.03.04 Controlled Traffic Signal System (CTSS)**

- F. Equipment Training.**
- G. Warranty.**
- H. Networking Requirements.**
- I. IT Requirements.**

#### **704.03.05 Travel Time Systems (TTS)**

##### **F. Equipment Training.**

#### **704.03.06 Road Weather Information System (RWIS)**

##### **F. Equipment Training.**

#### **704.03.07 Dynamic Message System (DMS)**

##### **A. Components.**

The following are the Model numbers for the various DMS to be provided and installed in this project:

<b>Location</b>	<b>Communication Type</b>	<b>DMS Type</b>	<b>Manufacturer/Model No.</b>
-----------------	---------------------------	-----------------	-------------------------------

Ensure that the designated Model numbers for the various DMS signs are provided as specified in the Contract documents.

Ensure that Controller, DMS is purchased with pre-installed controller, pre-wired with the equipment listed below along with specialized communications cables (minimum 120 feet Fiber Optic Cable with Connectors for each sign).

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As part of the specified model numbers, ensure the DMS manufacturer supplies the cabinet and controller for each DMS sign with pre-installed uninterruptable power supply (UPS), a media converter, and a TCP/IP wireless modem conforming to the wireless provider requirements. Provide other equipment not listed here but required for the remote operation of the DMS.

**B. Installation.**

Construct the DMS sign mounting structure and foundation as specified in Division 500.

**1. DMS Sign.**

**2. Controller, DMS.**

**F. Equipment Training.**

**704.03.08 Weigh-in-Motion System (WIMS)**

**B. Installation.**

**F. Equipment Training.**

**704.03.09 Traffic Volume System (TVS)**

**B. Installation.**

The Department will allow existing TVS system shutdowns from \_\_\_\_\_.

**F. Equipment Training.**

**704.03.10 Variable Speed Limit System (VSLS)**

**B. Installation.**

**2. Controller, VSLS.**

**704.04 MEASUREMENT AND PAYMENT**

## **DIVISION 800 – LANDSCAPING**

### **SECTION 811 – PLANTING**

#### **811.03.02 Plant Establishment and Maintenance Period**

The Department will reinspect the plants annually for \_\_\_\_ years.

#### **2. Maintenance Bond.**

Provide a bond to the Department in the amount of \$\_\_\_\_\_.

## DIVISION 900 – MATERIALS

### SECTION 903 – CONCRETE

#### 903.01 CEMENT

THE ENTIRE SUBSECTION TEXT IS CHANGED TO:

Use cement, listed on the QPL, that is either portland cement or blended hydraulic cement and conforms to the following:

Portland Cement, Type I, II, and Type III.....	ASTM C 150
Blended Hydraulic Cement, Type IS, IP, and IL .....	ASTM C 595

Only use Type III portland cement for Class V concrete, prestressed Items, and precast Items.

Use portland cement pre-blended with a maximum of 25 percent fly ash, by weight, or a maximum of 5 percent silica fume by weight, or with a maximum of 50 percent slag by weight for blended hydraulic cement Type IS or IP. Use portland cement pre-blended with a minimum of 5 percent limestone content and a maximum of 15 percent limestone content by weight for blended hydraulic cement Type IL. Ensure that a scaling test according to ASTM C 672 is completed on the mix design if more than 30 percent slag is used and that the concrete has a visual rating less than 3 after 50 cycles.

Do not add additional mineral admixtures to blended hydraulic cements Type IS or IP at the concrete plant unless approved by the ME. The use of additional mineral admixtures in blended hydraulic cement Type IL at the concrete plant is permitted if the mineral admixture is listed on the QPL

Do not mix different brands of cement, the same brand of cement from different mills, or different types of cement.

Provide suitable means for storing and protecting the cement against dampness. The ME will reject cement that has become partially set or that contains lumps of caked cement. Ensure that the temperature of the cement at the time of delivery to the mixer does not exceed 160 °F.

#### 903.03.05 Control and Acceptance Testing Requirements

##### E. Acceptance Testing for Strength for Pay-Adjustment Items.

Concrete Items which are subject to pay adjustment and the base prices are as follows:

ITEMS	DESCRIPTION	UNIT	BASE PRICE
507021P	CONCRETE BRIDGE DECK	CY	\$500.00
507036P	CONCRETE BRIDGE PARAPET	LF	\$305.00
505039P	PRESTRESSED CONCRETE SLAB BEAM, (TYPE SII-36), 36" X 15"	LF	\$125.00
505042P	PRESTRESSED CONCRETE SLAB BEAM, (TYPE SIII-36), 36" X 18"	LF	\$130.00
505015P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BI-36), 36" X 27"	LF	\$170.00
505045P	PRESTRESSED CONCRETE SLAB BEAM, (TYPE SIV-36), 36" X 21"	LF	\$160.00
505018P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BII-36), 36" X 33"	LF	\$170.00
505021P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BIII-36), 36" X 39"	LF	\$175.00
505024P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BIV-36), 36" X 42"	LF	\$185.00
505003P	PRETENSIONED PRESTRESSED CONCRETE BEAM, 45"	LF	\$155.00
505006P	PRETENSIONED PRESTRESSED CONCRETE BEAM, 54"	LF	\$155.00
505048P	PRESTRESSED CONCRETE SLAB BEAM, (TYPE SII-48), 48" X 15"	LF	\$160.00
505051P	PRESTRESSED CONCRETE SLAB BEAM, (TYPE SIII-48), 48" X 18"	LF	\$135.00
505009P	PRETENSIONED PRESTRESSED CONCRETE BEAM, 63"	LF	\$185.00
505027P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BI-48), 48" X 27"	LF	\$215.00
505054P	PRESTRESSED CONCRETE SLAB BEAM, (TYPE SIV-48), 48" X 21"	LF	\$215.00

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505030P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BII-48), 48" X 33"	LF	\$185.00
505033P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BIII-48), 48" X 39"	LF	\$220.00
505036P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BIV-48), 48" X 42"	LF	\$230.00
505012P	PRETENSIONED PRESTRESSED CONCRETE BEAM, 72"	LF	\$200.00
502045M	CAST-IN-PLACE CONCRETE PILE, DRIVEN, 12" DIAMETER	LF	\$50.00
502090M	PRECAST CONCRETE PILE, DRIVEN, 12" X 12"	LF	\$90.00
502132M	PRESTRESSED CONCRETE PILE, DRIVEN, 12" X 12"	LF	\$50.00
502135M	PRESTRESSED CONCRETE PILE, DRIVEN, 14" X 14"	LF	\$50.00
502138M	PRESTRESSED CONCRETE PILE, DRIVEN, 16" X 16"	LF	\$50.00
502141M	PRESTRESSED CONCRETE PILE, DRIVEN, 18" X 18"	LF	\$50.00
502144M	PRESTRESSED CONCRETE PILE, DRIVEN, 20" X 20"	LF	\$75.00
502147M	PRESTRESSED CONCRETE PILE, DRIVEN, 22" X 22"	LF	\$75.00
502150M	PRESTRESSED CONCRETE PILE, DRIVEN, 24" X 24"	LF	\$75.00
502151M	PRESTRESSED CONCRETE PILE, DRIVEN, 30" X 30"	LF	\$75.00
502156M	PRESTRESSED CONCRETE PILE, DRIVEN, 54" DIAMETER	LF	\$200.00

## SECTION 910 – MASONRY UNITS

### 910.04 STONE CURB

### 910.05 STONE FACING FOR PIER SHAFTS

### 910.06 STONE PAVING BLOCK

## SECTION 912 – PAINTS, COATINGS, TRAFFIC STRIPES, AND TRAFFIC MARKINGS

### 912.01.04 Concrete Stain

THE SUBSECTION IS CHANGED TO:

Provide a penetrating stain that is a single component, water-based acrylic coating, alkali resistant, and water repellant. Primer is required for application on smooth concrete. Provide a primer that is a penetrating, water based, water repellent concrete sealer. Ensure that the stain conforms to the requirements in Table 912.01.04-1.

Table 912.01.04-1 Requirements for Concrete Stain		
Property	Value	ASTM Test Method
Dry – to – Touch Time	Max. 1 hour	D 1640
Dry – to – Recoat Time	Max. 4 hour	D 1640
Weight per Gallon	11.0 + 0.5 lbs.	D 1475
Weight Solids	52 + 2%	D 2369
Adhesion, Tape Test	Min. 4A	D 3359
Gloss	Flat	D 523
Weathering	<3.0 dE @ 3,000 hrs.	G 154 / D 4587
VOC	<100 g/L	D 2369

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## SECTION 917 – LANDSCAPING MATERIALS

### 917.07 SOD

### 917.08 PLANT MATERIALS

#### H. Inspection.

Notify the RE at least \_\_\_\_ (hours or days) in advance of delivery to the Project Limits for installation.

## SECTION 919 – MISCELLANEOUS

### 919.05 GEOMEMBRANE LINER

TABLE 919.05-1 IS CHANGED TO:

Table 919.05-1 Requirements for HDPE Resin		
Property	Test Method	Requirements
Specific Gravity (Resin & Carbon Black)	ASTM D 792	> 0.940
Melt Index	ASTM D 1238	< 0.4 g/10 min
Carbon Black Content	ASTM D 1603	2 – 3 %

## **DIVISION 1000 – EQUIPMENT**

### **SECTION 1001 – TRAFFIC CONTROL EQUIPMENT**

#### **1001.03 TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHIONS**

THE FIRST PARAGRAPH PART 1 IS CHANGED TO:

1. Meets crash-worthiness requirements as specified in 159.03.02.

THE FOLLOWING SUBSECTION IS ADDED:

#### **1001.04 PORTABLE VARIABLE MESSAGE SIGN WITH REMOTE COMMUNICATION**

Provide a NTCIP compliant portable variable message sign as described under 1001.02 with the exceptions noted below and each equipped with broadband cellular modem.

Ensure that the sign panel is color full matrix model that displays a combination of letters and graphic images.

Ensure that the sign panel is capable of displaying 3 lines of text with variable size characters.

Ensure 9 characters are displayed per line for posting travel times. For this 9 character requirement, smaller size characters may be allowed that meets MUTCD guidelines.

Ensure that the panel is also capable of displaying 8 characters per line with a minimum character height of 18 inches.

Ensure that the PVMSRC can be integrated with the Department's central DMS control software for remote operation.

#### **1001.05 PORTABLE TRAILER MOUNTED CCTV CAMERA ASSEMBLY**

Provide a Portable Trailer Mounted CCTV Camera Assembly (PTMCCA) with the following:

##### **A. Trailer Platform**

1. Maximum size, including tongue, 14 feet long by 7 feet wide by 8 feet high.
2. NJDOT approved lighting package to include electrical brake and marker lights with wire connections.
3. Primed and painted with powder coated orange color.
4. Fitted with manual telescoping outriggers with adjustable jacks sized to counter full mast extension.
5. Four 3,500 pounds, drop leg, top wind screw jacks.
6. All equipment secured to prevent theft or separation from platform.
7. 24/7 operation in all weather conditions.
8. One locking NEMA-4 equipment box for operational controls.
9. Removable wheels (with wheel locks) when trailer is in deployed position.
10. Operation manual with a copy placed in the storage bin.

##### **B. Mast**

1. 150 pounds payload capacity.
2. 29 feet to 32 feet of extension with capability to mount antenna at 20 feet, 25 feet or at the top, 10 feet maximum nested length of mast - 3 to 9 sections.
3. Un-guyed.
4. Driven by galvanized steel cable.
5. Spiral conduit for cables.
6. Compactly retractable when nested into storage container at the bottom, and foldable for easy transport.
7. Operated by a power winch with a safety brake.
8. Capable of being raised or lowered during sustained wind speeds of 30 miles per hour.

##### **C. Power Source**

Equip the PTMCCA with either a diesel charged or a solar charged battery system. Ensure that the PTMCCA is also capable of operating on 120 volt AC electrical service. The Department may require a solar charged battery system

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in noise sensitive areas. Provide the power with a battery backup system capable of providing continuous operation when the primary power source fails. Ensure that the power source meets the following requirements:

1. **Diesel.** Ensure that the fuel tank is capable of operating the sign for a period of 72 hours without refueling. Equip with an exhaust muffler and a United States Department of Forestry approved spark arrester. Ensure that the engine is shock mounted to reduce vibration and locked in a ventilated enclosure.
2. **Solar.** Provide solar panels capable of recharging the batteries at a rate of 4 hours of sun for 24 hours of camera usage. Ensure that the battery capacity is capable of operating the sign for a period of 18 days without sunlight.

#### **D. Electronics**

1. Cellular (CDMA), microwave, or 802.11 bandwidth option.
2. Work lights in all cabinets.
3. Remote trailer diagnostics (battery level, charging output, etc.)

#### **E. Camera and Software**

Ensure that the camera has the following characteristics:

1. Dome Camera in a heavy duty plastic dome or with a weather resistant case.
2. Impact resistant viewing window.
3. Minimum resolution of NTSC 704 (H) x 480 (V).
4. Backlight compensation.
5. Image stabilization.
6. Light Sensitivity 0.02 lux NIR Mode.
7. Auto Focus with Manual Focus capability.
8. Auto White Balance with Manual White Balance capability.
9. Motorized Zoom up to 16x optical, 10x digital.
10. Motorized Pan-Tilt, pan 360°, tilt 180°.
11. Thermostatically controlled heater and defroster -50° to 140°F operating range.
12. Windshield wiper.
13. 24/7 operation in all weather conditions.
14. Time and date stamp.

Ensure the software provides the following functionality:

1. Remote control of pan, tilt, and zoom.
2. Display of streaming video in MPEG format, motion-JPEG, and single snapshot JPEG images, remotely interchangeable by using central software.
3. Preset controls of pan/tilt/zoom combinations. Ensure all presets are accessible from a drop-down menu with descriptive name of preset. Set first 8 presets with quick-launch icons with graphical representation of the preset views.
4. Display of all the project's webcams in a single view screen.
5. Display of local time and weather conditions including temperature and humidity.
6. Saving images and sending email images.
7. Viewing archived images via a graphical calendar control and storing archived images at least every 5 minutes.
8. Three levels of password protection: administrator, user, and guest individual user accounts.
9. Monitoring and controlling the cameras using web access.

## **SECTION 1003 – HMA SITE EQUIPMENT**

### **1003.01 MATERIALS TRANSFER VEHICLE (MTV)**

THE FOLLOWING IS ADDED AFTER THE LAST PARAGRAPH:

Ensure the MTVs Gross Weight and maximum speed limit do not exceed the load restrictions as shown in 105.09 Special Provisions.

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## **SECTION 1009 – HMA PLANT EQUIPMENT**

### **1009.01 HMA PLANT**

#### **A. Requirements for HMA Mixing Plants.**

##### **8. Safety.**

THE THIRD PARAGRAPH IS CHANGED TO:

When plant production occurs during night operations, provide permanently fixed lighting throughout the plant operations, plant laboratory, and truck scale areas to ensure a clear view of the operations. Also provide permanently mounted lighting at the sampling platforms to sufficiently illuminate the bed of the truck for inspection and sampling operations.

# NJDOT TEST METHODS

## NJDOT R-1 – DETERMINING RIDE QUALITY OF PAVEMENT SURFACES

### **B. Apparatus.**

PART B IS CHANGED TO:

Use the following apparatus:

1. Class 1 IPS that meets the requirements of ASTM E 950, Sections 4.0, 5.0 and 6.0 of AASHTO M 328, and the following:
  - a. Valid certification.
  - b. Recertification after any major component repairs or replacements.
  - c. The data system provides the raw profile data in format readable in ProVal.
  - d. Current version of pavement profile analysis software installed on the IPS computer to compute the IRI.
2. Base plate and gauge blocks, of 1 inch and 2 inch thickness, provided by the manufacturer to verify daily vertical calibration.
3. Retro-reflective traffic marking tape or other approved mechanism to automatically trigger the start and stop of profile measurements.

### **C. Procedure.**

PART C IS CHANGED TO:

Perform the following steps:

1. Turn on the inertial profiler and warm up all electronic equipment in accordance with the manufacturer recommendations before testing.
2. Perform Block and Bounce tests each day before collecting data. Record the results in the calibration log. Ensure tolerances are within the certified limits.
3. Ensure retro-reflective traffic marking tape or other approved mechanism is placed at the beginning and end of each direction of travel lane.
4. Enter project information in the test equipment system.
5. Make provisions to start and stop recording profile at the beginning and end of testing. If an automatic trigger mechanism is not installed, make provision to initiate start and end of data recording manually by pressing an appropriate key(s) on the computer.
6. Ensure that the required speed, as recommended by the manufacturer, is achieved and that the system is collecting profile data before recording profile.
7. For each test section, perform 3 test runs to collect data of both wheel paths of each lane in the longitudinal direction of travel. The wheel path is defined as being located approximately 3 feet on each side of the centerline of the lane and extending for the full length of the lane. Lanes are defined by striping.
8. Save data from each run separately before the next run or lane testing, clearly identifying each test run, lane identification, and run number.

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## FEDERAL AID PROJECT ATTACHMENT 1

### DISADVANTAGED BUSINESS ENTERPRISE UTILIZATION

- A. Utilization of Disadvantaged Business Enterprises as Subcontractors, Transaction Expeditors, Regular Dealers, Manufacturers and Truckers.** The Department advises the Contractor and subcontractors that failure to carry out the requirements in this attachment constitutes a material breach of Contract and, after the notification of the applicable Federal agency, may result in termination of the agreement or Contract by the Department or such remedy as the Department deems appropriate. Requirements set forth in this section shall also be physically included in all subcontracts in accordance with USDOT requirements.
- B. Policy.** It is the policy of the Department that Disadvantaged Business Enterprises, as defined in 49 CFR, Part 26; Titles I & V of the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA); MAP-21, Moving Ahead for Progress in the 21st Century Act (P.L. 112-141); FAST-ACT, Fixing America's Surface Transportation Act (P.L. 114-94, December 4, 2015); and Section III below, shall have an equal opportunity to participate in the performance of contracts financed in whole or in part with Federal funds under this agreement. The Disadvantaged Business Enterprise requirements of 49 CFR, Part 26 et seq. apply to this agreement.
- C. Definitions**
- 1. Disadvantaged Business Enterprise (DBE).** A for-profit small business concern:
    - a. That is at least 51 percent owned by one or more individuals who are both socially and economically disadvantaged or, in the case of a corporation, in which 51 percent of the stock is owned by one or more such individuals; and
    - b. Whose management and daily business operations are controlled by one or more of the socially and economically disadvantaged individuals who own it, and who do not exceed the personal net worth criteria established in 49 CFR Part 26.
  - 2. Socially and economically disadvantaged individual.** Any individual who is a citizen (or lawfully admitted permanent resident) of the United States and who has been subjected to racial or ethnic prejudice or cultural bias within American society because of his or her identity as a member of groups and without regard to his or her individual qualities. The social disadvantage must stem from circumstances beyond the individual's control.
    - a. Any individual who a recipient finds to be a socially and economically disadvantaged individual on a case-by-case basis. An individual must demonstrate that he or she has held himself or herself out, as a member of a designated group;
    - b. Any individual in the following groups, members of which are rebuttably presumed to be socially and economically disadvantaged:
      - (1) Black Americans," which includes persons having origins in any of the Black racial groups of Africa
      - (2) Hispanic Americans," which includes persons of Mexican, Puerto Rican, Cuban, Dominican, Central or South American, or other Spanish or Portuguese culture or origin, regardless of race
      - (3) Native Americans," which includes persons who are enrolled members of a Federally or State recognized Indian tribe, Alaska Natives, or Native Hawaiians
      - (4) Asian-Pacific Americans," which includes persons whose origins are from Japan, China, Taiwan, Korea, Burma (Myanmar), Vietnam, Laos, Cambodia (Kampuchea), Thailand, Malaysia, Indonesia, the Philippines, Brunei, Samoa, Guam, the U.S. Trust Territories of the Pacific Islands (Republic of Palau), Republic of the Northern Marianas Islands, Samoa, Macao, Fiji, Tonga, Kiribati, Tuvalu, Nauru, Federated States of Micronesia, or Hong Kong
      - (5) Subcontinent Asian Americans," which includes persons whose origins are from India, Pakistan, Bangladesh, Bhutan, the Maldives Islands, Nepal or Sri Lanka

- (6) Women
  - (7) Any additional groups whose members are designated as socially and economically disadvantaged by the SBA, at such time as the SBA designation becomes effective.
  - (8) Being born in a particular country does not, standing alone, mean that a person is necessarily a member of one of the groups listed in this definition.
3. **Commercially Useful Function (CUF).** A DBE performs a commercially useful function when it is responsible for execution of a distinct element of the work of a contract and carrying out its responsibility by actually performing, managing and supervising the work involved. To perform a commercially useful function, the DBE must also be responsible, with respect to materials and supplies used on the contract, for preparing the estimate, negotiating price, determining quality and quantity, ordering the material, arranging delivery, installing (where applicable), and paying for the material and supplies itself for the project.
  4. **Transaction expeditor (broker).** A DBE who arranges or expedites transactions and who arranges for material drop shipments.
  5. **DBE regular dealers.** A firm that must be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question. In addition, a regular dealer must own, operate or maintain a store, warehouse, or other establishment in which the materials, supplies, articles or equipment required under this Contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business.
  6. **DBE manufacturer.** A firm that operates or maintains a factory or establishment that produces on the premises, the materials, supplies, articles, or equipment required for the Contract.
  7. **Good faith effort (GFE).** Efforts to achieve a DBE goal or other requirement of 49 CFR Part 26, which by their scope, intensity, and appropriateness to the objective, can reasonably be expected to fulfill the program requirement. Efforts to include firms not certified as DBEs in the state where the contract is being let are consequently not good faith efforts to meet a DBE contract goal.
  8. **Affirmative Action Plan.** An outline of the steps a contractor or subcontractor will implement to achieve equal employment opportunity and affirmative action and/or to correct its equal employment and affirmative action program deficiencies.
- D. Compliance.** The Contractor is responsible for compliance as specified in Section 105.
- E. Contractor's DBE Obligations.** Ensure that DBEs have an equal opportunity to receive and participate in contracts and subcontracts financed in whole or in part with Federal funds in performing work with the Department. Take all necessary and reasonable steps in accordance with 49 CFR, Part 26 and the Contract to ensure that DBEs are given equal opportunity to compete for and to perform on the Department's Federal Aid Projects. Do not discriminate in the award and performance of any Contract obligation including, but not limited to, performance of obligations on USDOT assisted contracts, as specified in Section 107.
1. **Post Award Obligations**
    - a. Give DBEs equal consideration with non-minority firms in negotiation for any subcontracts, purchase orders or leases.
    - b. Attempt to obtain qualified DBEs to perform the work. A directory of certified Disadvantaged Small Businesses Enterprise firms can be found in the New Jersey Unified Certification Program Vendor Certification database, online at: <https://njucp.dbesystem.com/>.
  2. **Affirmative Action After Award of the Contract**
    - a. **Subletting.** If at any time following the award of the Contract, the Contractor intends to sublet any portion(s) of the work under said Contract, or intends to purchase material or lease equipment not contemplated during preparation of bids, take affirmative action:
      - (1) Notify the RE, in writing, of the type and approximate value of the work which the Contractor intends to accomplish by such subcontract, purchase order or lease.

- (2) Submit the Post-Award Minority Certification (Part IV of the DC-18A Request for Approval to Sublet on Projects Utilizing the 2007 Specifications Form) to the Regional Supervising Engineer with the application to sublet, or prior to purchasing material or leasing equipment. Obtain Post Award Minority Certifications from the RE.
  - (3) Efforts made to identify and retain a DBE as a replacement subcontractor, lower tier subcontractor, transaction expeditor, regular dealer, supplier, manufacturer or trucker when the arrangements with the original DBE prove unsuccessful, shall be as specified in Section 108. Work in the category concerned shall not begin until such approval is granted in writing by the Department.
  - (4) Notification of a DBE firm's termination will be as specified in Section 108. Send notice in writing to the Department through the RE, with a copy to DCR/AA. Said termination notice will include the firm's ethnic classification, whether the firm is a DBE and the detailed reason(s) for termination.
- b. Selection and Retention of Subcontractors.** Do not discriminate in the selection and retention of subcontractors, including procurement of materials and leases of equipment as specified in 108.01. Provide the RE with a listing of firms, organizations or enterprises solicited and those utilized as subcontractors on the proposed project. Such listing shall clearly delineate which firms are classified as DBEs. Provide the RE with subcontract agreements for all subcontractors performing work on the Contract as specified in Section 108.
- (1) Efforts made to identify and retain a DBE as a replacement subcontractor, lower tier subcontractor, transaction expeditor, regular dealer, supplier, manufacturer or trucker when the arrangements with the original DBE prove unsuccessful, shall be submitted as specified in Section 108. Work in the category concerned shall not begin until such approval is granted in writing by the Department.
  - (2) Notification of a DBE firm's termination will be as specified in Subsection 108.01. Send notice in writing to the Department through the RE. Said termination notice will include the firm's ethnic classification, whether the subcontractor is a DBE and the detailed reason(s) for termination.
- c. Meeting Contract DBE Goal.** Report attainment toward meeting the Contract DBE goal by submitting monthly, all DBE participation, to the Department's RE and DCR/AA Contract Compliance Unit using the CR-267 – Monthly Report of Utilization of DBE/ESBE or SBE form. The form is due by the 5th of the month, and must list all DBEs used on the Contract to meet the Contract goal, the specific Contract work items each DBE is performing, whether the DBE is performing full or partial work on the items, and the amount paid to each DBE each month. Failure to report the information, and accurately report it may result in payment being delayed or withheld as specified in Section 105, assessing sanctions, or termination of the Contract as specified in Section 108.
- d. Termination, Substitution or Replacement of DBEs.** Make good faith efforts to replace a DBE that is terminated or has otherwise failed to complete its work on the Contract with another certified DBE, to the extent needed to meet the Contract DBE goal. Notify the DCR/AA immediately of the DBE's inability or unwillingness to perform and provide reasonable documented evidence. Prior to termination, substitution or replacement of a DBE subcontractor, lower tier subcontractor, transaction expeditor, regular dealer, supplier, manufacturer or trucker, submit a Revised CR-266 – Schedule of DBE/ESBE/SBE Participation form to the Department naming the replacement DBE firm(s), type of work performed, specific Contract work items, whether the DBE is performing full or partial work on the items, dollar value and percent of total Contract for each DBE firm. Submit detailed written explanation of why each change is being made, including documented evidence of good faith effort(s) with the submission of the revised Form CR-266. Submit along with the revised CR-266: 1) a completed Confirmation of DBE Firm (Form CR-273) to demonstrate direct written confirmation from each DBE firm participating on the Contract, confirming the kind and amount of work that was provided on the Contractor's CR-266, and if applicable; 2) a completed DBE Regular Dealer/Supplier Verification (Form CR-272) for all DBE Regular Dealers/Suppliers listed on the revised CR-266; and if applicable, 3) a completed DBE Trucking Verification (Form CR-274) for all DBE truckers listed on the revised

CR-266 form. The Contractor is not permitted to complete any portion of the CR-273, CR-272 or CR-274 forms. Termination, substitution or replacement of DBEs shall be made as specified in Section 108. Termination or replacement of DBEs cannot be made without prior written approval of the Department as per 108.01.

- e. **Submission of Good Faith Effort Documentation.** If the Contractor is unable to meet the Contract goal for DBE participation, submit to the DCR/AA for review and approval, documented evidence of good faith efforts along with the monthly CR-267 form. This submission must include written details addressing each of the good faith efforts outlined in the Contract. Submittal of such information does not imply DCR/AA approval. The Department's DCR/AA has sole authority to determine whether the Contractor is meeting the Contract DBE goal or made adequate good faith efforts to do so.

- F. **DBE Goals for the Contract.** This Contract includes a goal of awarding \_\_\_\_\_ percentage of the Total Contract Price to subcontractors, transaction expeditors, regular dealers, manufacturers and truckers qualifying as DBEs.

The Department's DCR/AA has sole authority to determine whether the Contractor met the goal or made adequate good faith efforts to do so. If the DCR/AA determines that the Contractor has failed to meet the Contract DBE goal or made adequate good faith efforts to do so, the Department will follow Section 105.

- G. **Counting DBE Participation.**

1. Each DBE is subject to a certification procedure to ensure its DBE eligibility status prior to the award of the Contract. All DBEs working on the Contract must be certified DBEs. To receive DBE credit toward meeting a contract goal in the context of the contract award process, a DBE firm must be certified before the due date for bids or offers on the Contract, as stated in 49 CFR Part 26.81(c). There may be situations after the award of the Contract, however, in which it is appropriate to count DBE credit for the use of a DBE subcontractor certified after the contract is executed. To be eligible to obtain DBE credit, a DBE subcontractor must be certified before the subcontract on which it is working is executed.
2. The Department determines the percentage of DBE participation that will be counted toward the Contract DBE goal in accordance with 49 C.F.R. Part 26.55 et seq.
3. The Contractor will count DBE participation toward the Contract DBE goal only the value of the work actually performed by a certified DBE and only if the DBE performs a commercially useful function in the work of a contract as per 49 CFR, Subpart C, Part 26.55(c) and the Contract.
4. The Department will count DBE participation for DBE trucking firms in accordance with 49 C.F.R. Part 26.55 et seq. The DBE can count the entire value of services performed by DBE trucks. The DBE can count the value of non-DBE trucking services up to the value of services performed by DBE trucks used on the Contract. DBE participation can be counted for the value of services of non-DBE trucks that exceed the value of the services performed by DBE trucks only in the amount of the fee or commission a DBE receives as a result of the lease arrangement.
5. The Department will count DBE participation for DBE regular dealers, manufacturers and transaction expeditors in accordance with 49 C.F.R Part 26.55 et seq. Transaction expeditors/brokers will not receive DBE credit for any portion of the cost of the materials and supplies themselves toward the Contract DBE goal. For brokers, only the DBE's fee or commission, and no part of the cost of the goods, count towards DBE goals. The Department will determine if the fees are reasonable and not excessive as compared with fees customarily allowed for similar services. If a certified firm acts as a "regular dealer" in a given transaction, it is awarded DBE credit equivalent to 60 percent of the value of the items it supplies on that contract. This credit is awarded in recognition of the value the DBE adds to transaction and the risks that it takes.
6. If the Contractor is a certified DBE, payments made to the Contractor for work that the Contractor is certified to perform, and performed by the Contractor will be applied toward the Contract DBE goal. Payments made to the Contractor for work performed by non-DBEs will not be applied toward the Contract DBE goal.
7. When a DBE subcontractor sublets part of the work of its contract to another firm, the value of the subcontract work may be counted towards the Contract DBE goal only if the subcontractor itself is a

certified DBE. Work that a DBE subcontractor subcontracts to a non-DBE firm, cannot be counted towards the Contract DBE goal.

#### H. Commercially Useful Function

1. **Performance of Work.** The DBE must perform the work with their own permanent employees, or employees recruited through traditional recruitment and/or employment centers. DBEs must employ and control their own workforce, and cannot share employees with the Contractor, other subcontractors on the present project, or the renter-lessor of equipment being used on the present project. The DBE firm must be responsible for all payroll and labor compliance requirements for all of their employees performing work on the Contract. Direct or indirect payments by any other contractor are not allowed.
2. **Managing Work.** The DBE must manage the work themselves including the scheduling of work operations, ordering of equipment and materials, hiring/firing of employees, including supervisory employees, and preparing and submitting certified payrolls. The DBE must supervise their portion of daily work operations of the project. With respect to materials and supplies used on the Contract, the DBE must be responsible for preparing the estimate, negotiating price, determining quantity and quality, ordering the material, arranging delivery; installing, (where applicable), and paying for the material and supplies itself, for the project.
3. **Responsibility of Work.** A DBE must perform or exercise responsibility for at least 30 percent of the total cost of its contract with its own workforce. The DBE must not subcontract a greater portion of the work of a contract than would be expected on the basis of normal industry practice for the type of work involved.
4. **Equipment of DBE.** The DBE must perform the work stated in the subcontract with their own equipment, whether owned or leased and operated on a long term agreement, not an ad hoc or contract by contract agreement. The equipment must be owned by the DBE firm, or leased/rented from traditional equipment lease/rental sources. The equipment will not belong to the Contractor, any other subcontractor or lower tier subcontractors on the current project, or supplier of materials being installed by the DBE firm.
5. **Lease of Equipment.** A DBE firm may lease specialized equipment from a contractor, but not from the Contractor, if it is consistent with normal industry practices and at rates competitive for the area. Rental agreements must be for short periods of time, specify the terms of the agreement and involve specialty equipment to be used at the job site. The lease may allow the operator to remain on the lessor's payroll, if it is the generally accepted industry practice but the operation of the equipment must be subject to full control by the DBE. The DBE is expected to provide the operator for non-specialized equipment, and is responsible for all payroll and labor compliance requirements. A separate lease agreement is required.
6. **DBE Trucking.** DBE trucking companies must perform a commercially useful function in accordance with 49 CFR Part 26.55 et seq. Contrived arrangements for the purpose of meeting DBE goals will not be allowed. The DBE must be responsible for the management and supervision of the entire trucking operation on a contract-by-contract basis, and must own and operate at least one fully, licensed, insured and operational truck used on the Contract.

The DBE trucking firm is not permitted to obtain trucks from the Contractor to perform work on the project. The DBE may lease trucks from a subcontractor working on the project, provided the trucks are obtained from the subcontractor prior to the project letting. The DBE may lease trucks from another DBE, including an owner-operator that is certified as a DBE. The DBE may also lease trucks from non-DBEs and owner-operators. Bona fide lease agreements must be for the length of time needed by the DBE on the Contract and signed by both the DBE and the firm(s), either certified DBE or non-DBE, from which the trucks will be leased. Leases must indicate that the DBE has exclusive use and control over the truck. As per 49 CFR Part 26.55(d)(7), all leased trucks, including non-DBE trucks, must display the name and USDOT identification number issued for interstate commerce, of the DBE firm on the outside of the truck. DBE firms are expected to use the same trucks for DBE credit on all projects so use of leased vehicles on a project-by-project basis is not permitted.



The Contractor shall have signed Hiring Agreements. Submit copies of these signed Hiring Agreements, and copies of all signed lease agreements to the RE prior to the trucking firm's commencing work on the project. Prior to the DBE trucking firm beginning work on the Contract, DBE Trucking firms will be required to complete the DBE Trucking Verification (Form CR-274). The DBE and Contractor must sign the form and the Contractor submit the original CR-274 form directly to the Department's RE, with a copy submitted to the DCR/AA. The Contractor is not permitted to complete any portion of the CR-274 form. The Contractor must prepare, sign and submit with the CR-267 – Monthly Report of Utilization of DBE/ESBE or SBE form, a Monthly Trucking Verification form (CR-271), identifying each truck owner, DBE Certification number, company name and address, truck number, and commission or amount paid for all DBE and non-DBE truckers performing work on the project. Also, submit the form to the Department as per Section E of this Special Provision for DCR/AA review, approval and determination of credit toward the Contract goal. Failure to submit the forms may result in denial or limit of credit toward the Contract DBE goal, payment being delayed or withheld as specified in Section 105, assessing sanctions or termination of the Contract as specified in Section 108.

7. **DBE Regular Dealers.** DBE regular dealers must be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question. In addition, a regular dealer must own, operate or maintain a store, warehouse, or other establishment in which the materials, supplies, articles or equipment of the general character described by the specifications and required under this Contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business.

When the Contractor seeks credit toward the Contract DBE goal using DBE regular dealers, the DBE Regular Dealer/Supplier Verification (Form CR-272) must be completed and signed by the DBE regular dealer and then signed by the Contractor. Submit the form to the Department as per Section E of this Special Provision for the DCR/AA's review, approval and determination of credit toward the Contract DBE goal.

8. **DBE Manufacturers.** DBE manufacturers must be a firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required for this Contract.
9. The Contractor shall not use a DBE solely for the purpose of acting as an extra participant in a transaction, a contract or the Contract through which funds are passed in order to obtain the appearance of DBE participation.

- I. **Good Faith Effort.** To demonstrate good faith efforts to meet the Contract DBE goal, a Contractor shall, on an ongoing basis, document the steps it takes to obtain DBE participation in accordance with 49 CFR Part 26.53 and Appendix A, including but not limited to the following:

1. Conducting market research to identify small business contractors and suppliers and soliciting through all reasonable and available means the interest of all certified DBEs that have the capability to perform the work of the Contract. This may include attendance at pre-bid and business matchmaking meetings and events, advertising and/or written notices, posting of Notices of Sources Sought and/or Requests for Proposals, written notices or emails to all DBEs listed in the State's directory of transportation firms that specialize in the areas of work desired (as noted in the DBE directory) and which are located in the area or surrounding areas of the project.

Should solicit this interest as early in the acquisition process as practicable to allow the DBEs to respond to the solicitation and submit a timely offer for the subcontract. Determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.

2. Selecting portions of the work to be performed by DBEs in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out Contract work items into economically feasible units (for example, smaller tasks or quantities) to facilitate DBE participation, even when the Contractor might otherwise prefer to perform these work items with its own forces. This may include, where possible, establishing flexible timeframes for performance and delivery schedules in a manner that encourages and facilitates DBE participation.

3. Providing interested DBEs with detailed information about the plans, specifications, and requirements of the Contract in a timely manner to assist them in responding to a solicitation with their offer for the subcontract. Attempt to contact all potential subcontractors on the same day and use similar methods to contact them;
4. Negotiating in good faith with interested DBEs. Make a portion of the work available to DBE subcontractors and suppliers and select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional Agreements could not be reached for DBEs to perform the work.

Consider a number of factors in negotiating with subcontractors, including DBE subcontractors. Take a firm's price and capabilities as well as Contract goals into consideration. The fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for failure to meet the contract DBE goal, as long as such costs are reasonable. The ability or desire of a Contractor to perform the work of a Contract with its own organization does not relieve the responsibility to make good faith efforts. Contractors are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.

5. Not rejecting DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union status) are not legitimate causes for the rejection or non-solicitation of bids in the Contractor's efforts to meet the Contract DBE goal. Another practice considered an insufficient good faith effort is the rejection of the DBE because its quotation for the work was not the lowest received. However, nothing in this paragraph shall be construed to require the Contractor to accept unreasonable quotes in order to satisfy the Contract DBE goal.

Inability to find a replacement DBE at the original price is not alone sufficient to support a finding that good faith efforts have been made to replace the original DBE. The fact that the Contractor has the ability and/or desire to perform the contract work with its own forces does not relieve the Contractor of the obligation to make good faith efforts to find a replacement DBE, and it is not a sound basis for rejecting a prospective replacement DBE's reasonable quote.

Attempt, wherever possible, to negotiate prices with potential subcontractors which submitted higher than acceptable price quotes.

Keep a record of efforts, including the names of businesses contacted and the means and results of such contacts.

6. Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or Contractor.
7. Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.
8. Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, State, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBEs.

If the Contractor fails to meet the Contract DBE goal, they must submit documented evidence of good faith effort(s) with the CR-268 final DBE Report to the DCR/AA for review and approval. Submittal of such information does not imply DCR/AA approval. The Department's DCR/AA has sole authority to determine whether the Contractor met the Contract DBE goal or made adequate good faith efforts to do so. If the DCR/AA determines that the Contractor has failed to meet the Contract DBE goal or made adequate good faith effort to do so, the Department will follow Section 105.

## **J. Submission of Affirmative Action Program**

Contractors, subcontractors and professional service firms performing work for the Department are required to submit their company's Affirmative Action Program annually to the DCR/AA. Contractors must have an **approved** Affirmative Action Program on file in the DCR/AA no later than seven (7) State business days after the date of bid opening. No recommendations to award will be made without an approved Affirmative Action Program on file in the DCR/AA. Ensure subcontractors and professional service firms have an approved Affirmative Action Plan on file in the DCR/AA prior to their beginning work on a particular project.

The Annual Affirmative Action Program will include, but is not limited to the following:

1. Copy of company's comprehensive EEO/Affirmative Action Plan, with a cover page that includes the company name and address, and signature of the Chief Executive or EEO Officer.
2. Copy of document designating the company's corporate EEO Officer, including the name, address and contact telephone number for the officer, and signature of the Chief Executive or President, on company letterhead.
3. Copy of the company's EEO Policy Statement on company letterhead, dated and signed by the Chief Executive and the EEO Officer.
4. Copy of the company's Sexual Harassment Policy on company letterhead.
5. EEO Legend such as letterhead, envelope, or published advertisement showing the company is an equal opportunity employer.
6. Copy of document designating the company's DBE Liaison Officer to administer the firm's Disadvantaged Business Program.
7. DBE Affirmative Action Plan which is an explanation of affirmative action methods intended to be used to seek out and consider DBEs as subcontractors, material suppliers or equipment lessors. This refers to the Contractor's ongoing responsibility, i.e., Disadvantaged Business Enterprise/Affirmative Action activities after the award of the Contract and for the duration of the Contract.

**K. DBE Liaison Officer.** Designate a DBE Liaison Officer who shall be responsible for the administration of your DBE program in accordance with the Contract, and ensuring that the Contractor complies with all provisions of 49 CFR Part 26.

**L. Consent by Department to Subletting.** The Department will not approve any subcontract proposed by the Contractor unless and until said Contractor has complied with the terms of the Contract.

**M. Conciliation.** Allegations of breach of any obligation contained in these DBE provisions and guidelines, will be investigated by the DCR/AA, the Federal Highway Administration and/or the USDOT.

**N. Documentation**

1. **Requiring of Information.** The Department or the Federal funding agencies may at any time require information as specified in Section 107 and deemed necessary in the judgment of the Department to ascertain the compliance of any Bidder, Contractor or subcontractor with the terms of the Contract.
2. **Records and Reports.** The Contractor, subcontractors and other sub-recipients will keep such records as are necessary to determine compliance with its Disadvantaged Business Enterprise Utilization obligations. These records kept will be designed to indicate:
  - a. The names of DBE contractors, subcontractors, transaction expeditors and material suppliers contacted for work on the Contract, including when and how contacted, and the specific Contract work items and other information provided to each.
  - b. Work, services and materials which are not performed or supplied by the Contractor.
  - c. The actual dollar value of work subcontracted and awarded to DBEs, including specific Contract work items and cost of each work item.
  - d. The progress being made and efforts taken in seeking out and utilizing DBEs to include: solicitations, specific Contract work items and the quotes and bids regarding those specific Contract work items, supplies, leases, or other contract items, etc.
  - e. Detailed written documentation of all correspondence, contacts, telephone calls, etc., including names and dates/times, to obtain the services of DBEs on the Contract.
  - f. Records of all DBEs and non-DBEs who have submitted quotes/bids to the Contractor on the Contract.

- g. Monthly CR-267 – Monthly Report, Utilization of DBE/ESBE or SBE, and other reports required for submission to the Department, hiring agreements, subcontracts, lease agreements, equipment rental agreements, supply tickets, delivery slips, payment information, and other records documenting DBE utilization on the Contract.
  - h. Documentation outlining EEO workforce information for the Contract.
  - i. Documentation outlining EEO and Affirmative Action efforts made in the administration and performance of the Contract.
- 3. Submission of Reports, Forms and Documentation.** Submit reports, forms and documentation, as required by the Department, on those contracts and other business transactions executed with DBEs in such form and manner as may be prescribed by the Department. Failure to submit the required forms, reports or other documentation as required may result in payment being delayed or withheld as specified in Section 105, assessing sanctions, or termination of the contract as specified in Section 108. Submission of falsified forms, reports or other required documentation may result in termination of the Contract as specified in Section 108, investigation by the Department's Inspector General or U.S. DOT, or both, and prosecution by the State Attorney General's Office or U.S. Department of Justice, or both.
- 4. Maintaining Records.** All records must be maintained for a period of three (3) years following acceptance of final payment and will be available for inspection by the Department, or the Federal funding agencies.
- O. Prompt Payment to Subcontractors.** On Federal Aid Projects, payment to subcontractors, equipment lessors, suppliers and manufacturers is made in accordance with Section 109.
- P. Non-Compliance.** Failure by the Contractor to comply with the DBE program, rules and regulations of 49 CFR Part 26 in the administration of the Contract may result in denial or limit of credit toward the Contract DBE goal, payment being delayed or withheld as specified in Section 105, assessing sanctions, liquidated damages as specified in Section 108, default as specified in Section 108, debarment, or termination of the Contract as specified in Section 108. The Contractor may further be declared ineligible for future Department contracts.

## FEDERAL AID PROJECT ATTACHMENT 1

### EMERGING SMALL BUSINESS ENTERPRISE UTILIZATION

- A. Utilization of Emerging Small Business Enterprises as Subcontractors, Transaction Expeditors, Regular Dealers, Manufacturers and Truckers.** The Department advises the Contractor and subcontractors that failure to carry out the requirements in this attachment constitutes a material breach of Contract and, after the notification of the applicable Federal agency, may result in termination of the agreement or Contract by the Department or such remedy as the Department deems appropriate. Requirements set forth in this section shall also be physically included in all subcontracts in accordance with USDOT requirements.
- B. Policy.** It is the policy of the Department that Emerging Small Business Enterprises, as defined in Section III below, shall have an equal opportunity to participate in the performance of contracts financed in whole or in part with Federal funds under this agreement. In furtherance of this policy the Department has established an Emerging Small Business Enterprise Program. This program is designed to promote participation and shared economic opportunity by smaller firms who qualify as ESBes in NJDOT contracts and is undertaken pursuant to the authority contained in 49 CFR Part 26 et seq.

#### **C. Definitions**

- 1. Emerging Small Business Enterprise (ESBE).** A for-profit small business concern classified as a small business pursuant to the appropriate Small Business Administration regulations:
  - a. That is at least 51 percent owned by one or more individuals who are economically disadvantaged or, in the case of a corporation, in which 51 percent of the stock is owned by one or more such individuals; and
  - b. Whose management and daily business operations are controlled by one or more of the economically disadvantaged individuals who own it, and who do not exceed the personal net worth criteria established in 49 CFR Part 26.

**NOTE: DBEs automatically qualify as ESBes.**

- 2. Owned and Controlled.** Defined as: that at least 51% of the ownership interests as well as the management and daily business operations of the firm reside in individuals whose personal net worth does not exceed the requirements established in 49 CFR, Part 26.
- 3. Commercially Useful Function (CUF).** An ESBE performs a commercially useful function when it is responsible for execution of a distinct element of the work of a contract and carrying out its responsibility by actually performing, managing and supervising the work involved. . To perform a commercially useful function, the ESBE must also be responsible, with respect to materials and supplies used on the contract, for preparing the estimate, negotiating price, determining quality and quantity, ordering the material, arranging delivery, installing, (where applicable), and paying for the material and supplies itself for the project.
- 4. Transaction expeditor (broker).** An ESBE who arranges or expedites transactions and who arranges for material drop shipments.
- 5. ESBE regular dealer.** A firm that must be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question. In addition, a regular dealer must own, operate or maintain a store, warehouse, or other establishment in which the materials, supplies, articles or equipment required under this Contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business.
- 6. ESBE manufacturer.** A firm that operates or maintains a factory or establishment that produces on the premises, the materials, supplies, articles, or equipment required for the Contract.
- 7. Good faith effort (GFE).** Efforts to achieve an ESBE goal or other requirement of the ESBE Program and of 49 CFR Part 26, which by their scope, intensity, and appropriateness to the objective, can

reasonably be expected to fulfill the program requirement. Efforts to include firms not certified as ESBEs in the state where the contract is being let are consequently not good faith efforts to meet an ESBE contract goal.

8. **Affirmative Action Plan.** An outline of the steps a contractor or subcontractor will implement to achieve equal employment opportunity and affirmative action and/or to correct its equal employment and affirmative action program deficiencies.

**D Compliance.** The Contractor is responsible for compliance as specified in Section 105.

**E. Contractor ESBE Obligations.** Ensure that ESBEs have an equal opportunity to receive and participate in contracts and subcontracts financed in whole or in part with Federal funds in performing work with the Department. Take all necessary and reasonable steps in accordance with 49 CFR Part 26 and the Contract to ensure that ESBEs are given equal opportunity to compete for and perform on the Department's Federal Aid Projects. Do not discriminate in the award and performance of any Contract obligation including, but not limited to, performance of obligations on USDOT assisted contracts, as specified in Section 107.

1. Post Award Obligations

- a. Give ESBEs equal consideration with minority firms in negotiation for any subcontracts, purchase orders or leases.
- b. Attempt to obtain qualified ESBEs to perform the work. A directory of certified Emerging Small Business Enterprise firms may be found in the Emerging Small Business (ESBE) Program online directory at: <http://www.state.nj.us/transportation/business/civilrights/pdf/ESBEDirectory.pdf>.

2. Affirmative Action after Award of the Contract

- a. **Subletting.** If at any time following the award of the Contract, the Contractor intends to sublet any portion(s) of the work under said Contract, or intends to purchase material or lease equipment not contemplated during preparation of bids, take affirmative action:
  - (1) Notify the RE, in writing, of the type and approximate value of the work which the Contractor intends to accomplish by such subcontract, purchase order or lease.
  - (2) Submit the Post-Award Minority Certification (Part IV of the DC-18A Request for approval to Sublet on Projects Utilizing the 2007 Specifications Form) to the Regional Supervising Engineer with the application to sublet, or prior to purchasing material or leasing equipment. Obtain Post Award Minority Certifications from the RE.
  - (3) Efforts made to identify and retain an ESBE as a replacement subcontractor, lower tier subcontractor, transaction expeditor, regular dealer, supplier, manufacturer or trucker when the arrangements with the original ESBE prove unsuccessful, shall be followed as specified for DBE subcontractors as specified in Section 108. Work in the category concerned shall not begin until such approval is granted in writing by the Department.
  - (4) Notification of an ESBE firm's termination will be as specified in Section 108. Send notice in writing to the Department through the RE, with a copy to DCR/AA. Said termination notice will include the firm's ethnic classification, whether the firm is an ESBE and the detailed reason(s) for termination.
- b. **Selection and Retention of Subcontractors.** Do not discriminate in the selection and retention of subcontractors, including procurement of materials and leases of equipment as specified in 108.01. Provide the RE with a listing of firms, organizations or enterprises solicited and those utilized as subcontractors on the proposed project. Such listing shall clearly delineate which firms are classified as ESBEs. Provide the RE with subcontract agreements for all subcontractors performing work on the Contract as specified in Section 108.
  - (1) Efforts made to identify and retain an ESBE as a replacement subcontractor, lower tier subcontractor, transaction expeditor, regular dealer, supplier, manufacturer or trucker when the arrangements with the original ESBE prove unsuccessful, shall be submitted as specified in Section 108. Work in the category concerned shall not begin until such approval is granted in writing by the Department.

- (2) Notification of an ESBE firm's termination will be as specified in Subsection 108.01. Send notice in writing to the Department through the RE. Said termination notice will include the firm's ethnic classification, whether the firm is an ESBE and the detailed reason(s) for termination.
- c. **Meeting Contract ESBE Goal.** Report attainment toward meeting the Contract ESBE goal by submitting monthly, all ESBE participation, to the Department's RE and DCR/AA Contract Compliance Unit using the CR-267 – Monthly Report of Utilization of DBE/ESBE or SBE form. The form is due by the 5th of the month, and must list all ESBEs used on the Contract to meet the Contract goal, the specific Contract work items each ESBE is performing, whether the ESBE is performing full or partial work on the items, and the amount paid to each ESBE each month. Failure to report the information, and accurately report it may result in payment being delayed or withheld as specified in Section 105, assessing sanctions, or termination of the Contract as specified in Section 108.
  - d. **Termination, Substitution or Replacement of ESBEs.** Make good faith efforts to replace an ESBE that is terminated or has otherwise failed to complete its work on the Contract with another certified ESBE, to the extent needed to meet the Contract ESBE goal. Notify the DCR/AA immediately of the ESBEs inability or unwillingness to perform and provide reasonable documented evidence. Prior to termination, substitution or replacement of an ESBE subcontractor, lower tier subcontractor, transaction expeditor, regular dealer, supplier, manufacturer or trucker, submit a Revised CR-266 – Schedule of DBE/ESBE/SBE Participation form to the Department naming the replacement ESBE firm(s), type of work performed, specific Contract work items, whether the ESBE is performing full or partial work on the items, dollar value and percent of total Contract for each ESBE subcontractor. Submit detailed written explanation of why each change is being made, including documented evidence of good faith effort(s) with the submission of the revised Form CR-266. Submit along with the Revised CR-266: 1) a completed Confirmation of ESBE Firm (Form CR-273) to demonstrate direct written confirmation from each ESBE firm participating on the Contract, confirming the kind and amount of work that was provided on the Contractor's CR-266, and if applicable; 2) a completed ESBE Regular Dealer/Supplier Verification (Form CR-272) for all ESBE Regular Dealers/Suppliers listed on the Revised CR-266 form, and if applicable; 3) a completed ESBE Trucking Verification (Form CR-274) for all ESBE truckers listed on the Revised CR-266 form. The Contractor is not permitted to complete any portion of the CR-273, CR-272 or CR-274 forms. Termination, substitution or replacement of ESBEs shall be made as specified in Section 108. Termination or replacement of ESBEs cannot be made without prior written approval of the Department as per 108.01.
  - e. **Submission of Good Faith Documentation.** If the Contractor is unable to meet the Contract goal for ESBE participation, submit to the DCR/AA for review and approval, documented evidence of good faith efforts along with the monthly CR-267 form. This submission must include written details addressing each of the good faith efforts outlined in the Contract. Submittal of such information does not imply DCR/AA approval.
- F. ESBE Goals for This Contract.** This Contract includes a goal of awarding \_\_\_\_\_ percentage of the Total Contract Price to subcontractors, transaction expeditors, regular dealers, manufacturers and truckers qualifying as ESBEs.
- The Department's DCR/AA has sole authority to determine whether the Contractor met the goal or made adequate good faith efforts to do so. If the DCR/AA determines that the Contractor has failed to meet the Contract ESBE goal or made adequate good faith efforts to do so, the Department will follow Section 105.
- G. Counting ESBE Participation.**
1. Each ESBE is subject to a certification procedure to ensure its ESBE eligibility status prior to the award of the Contract. All ESBEs working on the Contract must be certified ESBEs. To receive ESBE credit toward meeting a contract goal in the context of the contract award process, an ESBE firm must be certified before the due date for bids or offers on the Contract. There may be situations after the award of the Contract, however, in which it is appropriate to count ESBE credit for the use of an ESBE

- subcontractor certified after the contract is executed. To be eligible to obtain ESBE credit, an ESBE subcontractor must be certified before the subcontract on which it is working is executed.
2. The Department determines the percentage of ESBE participation that will be counted toward the Contract ESBE goal in accordance with 49 C.F.R. Part 26.55 et seq.
  3. The Contractor will count ESBE participation toward the Contract ESBE goal only the value of the work actually performed by a certified ESBE and only if the ESBE performs a commercially useful function in the work of a contract in accordance with 49 CFR, Subpart C, Part 26.55(c) and the Contract.
  4. The Department will count ESBE participation for ESBE trucking firms in accordance with 49 CFR Part 26.55 et seq. The ESBE can count the entire value of services performed by ESBE trucks. The ESBE can count the value of non-ESBE trucking services up to the value of services performed by ESBE trucks used on the Contract. ESBE participation can be counted for the value of services of non-ESBE trucks that exceed the value of the services performed by ESBE trucks only in the amount of the fee or commission a ESBE receives as a result of the lease arrangement.
  5. The Department will count ESBE participation for ESBE regular dealers, manufacturers and transaction expeditors in accordance with 49 C.F.R Part 26.55 et seq. Transaction expeditors/brokers will not receive ESBE credit for any portion of the cost of the materials and supplies themselves toward the Contract ESBE goal. For brokers, only the ESBE's fee or commission, and no part of the cost of the goods, count towards ESBE goals. The Department will determine if the fees are reasonable and not excessive as compared with fees customarily allowed for similar services. If a certified firm acts as a "regular dealer" in a given transaction, it is awarded ESBE credit equivalent to 60 percent of the value of the items it supplies on that contract. This credit is awarded in recognition of the value the ESBE adds to transaction and the risks that it takes.
  6. If the Contractor is a certified ESBE, payments made to the Contractor for work that the Contractor is certified to perform, and performed by the Contractor will be counted toward the Contract ESBE goal. Payments made to the Contractor for work performed by non-ESBEs will not be applied toward the Contract ESBE goal.
  7. When an ESBE subcontractor sublets part of the work of its contract to another firm, the value of the subcontract work may be counted towards the Contract ESBE goal only if the subcontractor itself is a certified ESBE. Work that an ESBE subcontractor subcontracts to a non-ESBE firm, cannot be counted towards the Contract ESBE goal.

#### H. Commercially Useful Function.

1. **Performance of Work.** The ESBE must perform the work with their own permanent employees, or employees recruited through traditional recruitment and/or employment centers. ESBEs must employ and control their own workforce, and cannot share employees with the Contractor, other subcontractors on the present project, or the renter-lessor of equipment being used on the present project. The ESBE firm must be responsible for all payroll and labor compliance requirements for all of their employees performing work on the Contract. Direct or indirect payments by any other contractor are not allowed.
2. **Managing Work.** The ESBE must manage the work themselves including the scheduling of work operations, ordering of equipment and materials, hiring/firing of employees, including supervisory employees, and preparing and submitting certified payrolls. The ESBE must supervise their portion of daily work operations of the project. With respect to materials and supplies used on the Contract, the ESBE must be responsible for preparing the estimate, negotiating price, determining quantity and quality, ordering the material, arranging delivery, installing, (where applicable), and paying for the material and supplies for the project.
3. **Responsibility of Work.** An ESBE must perform or exercise responsibility for at least 30 percent of the total cost of its contract with its own workforce. The ESBE must not subcontract a greater portion of the work of a contract than would be expected on the basis of normal industry practice for the type of work involved.
4. **Equipment of ESBE.** The ESBE must perform the work stated in the subcontract with their own equipment, whether owned or leased and operated on a long term agreement, not an ad hoc or contract by contract agreement. The equipment must be owned by the ESBE firm, or leased/rented



from traditional equipment lease/rental sources. The equipment will not belong to the Contractor, any other subcontractor or lower tier subcontractors on the current project, or supplier of materials being installed by the ESBE firm.

5. **Lease of Equipment.** An ESBE firm may lease specialized equipment from a contractor, but not from the Contractor, if it is consistent with normal industry practices and at rates competitive for the area. Rental agreements must be for short periods of time, specify the terms of the agreement and involve specialty equipment to be used at the job site. The lease may allow the operator to remain on the lessor's payroll, if it is the generally accepted industry practice but the operation of the equipment must be subject to full control by the ESBE. The ESBE shall provide the operator for non-specialized equipment, and is responsible for all payroll and labor compliance requirements. A separate lease agreement is required.
6. **ESBE Trucking.** ESBE trucking companies must perform a commercially useful function in accordance with 49 CFR Part 26.55 et seq. Contrived arrangements for the purpose of meeting ESBE goals will not be allowed. The ESBE must be responsible for the management and supervision of the entire trucking operation on a contract-by-contract basis, and must own and operate at least one fully, licensed, insured and operational truck used on the Contract.

The ESBE trucking firm is not permitted to obtain trucks from the Contractor to perform work on the project. The ESBE may lease trucks from a subcontractor working on the project, provided the trucks are obtained from the subcontractor prior to the project letting. The ESBE may also lease trucks from non-ESBEs and owner –operators. Bona fide lease agreements must be for the length of time needed by the ESBE on the Contract and signed by both the ESBE and the firm(s), either certified ESBE or non-ESBE, from which the trucks will be leased. Leases must indicate that the ESBE has exclusive use and control over the truck. As per 49 CFR Part 26.55(d)(7), all leased trucks, including non-ESBE trucks must display the name and USDOT identification number issued for interstate commerce, of the ESBE firm on the outside of the truck. ESBE firms are expected to use the same trucks for ESBE credit on all projects so use of leased vehicles on a project-by-project basis is not permitted.

The Contractor shall have signed Hiring Agreements. Submit copies of these signed Hiring Agreements, and copies of all signed lease agreements to the RE prior to the trucking firm's commencing work on the project. Prior to the ESBE trucking firm beginning work on the Contract, ESBE Trucking firms will be required to complete the ESBE Trucking Verification (Form CR-274). The ESBE and Contractor must sign the form and the Contractor submit the original CR-274 form directly to the Department's RE, with a copy submitted to the DCR/AA. The Contractor is not permitted to complete any portion of the CR-274 form. The Contractor must prepare, sign and submit with the CR-267 - Monthly Report of Utilization of DBE/ESBE or SBE form, a Monthly Trucking Verification form (Form CR-271), identifying each truck owner, ESBE Certification number, company name and address, truck number, and commission or amount paid for all ESBE and non-ESBE truckers performing work on the project. Also, submit the form to the Department as per Section E of this Special Provision for the DCR/AA's review, approval and determination of credit toward the Contract goal. Failure to submit the forms may result in denial or limit of credit toward the Contract ESBE goal, payment being delayed or withheld as specified in Section 105, assessing sanctions or termination of the Contract as specified in Section 108.

7. **ESBE Regular Dealers.** ESBE regular dealers must be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question. In addition, a regular dealer must own, operate or maintain a store, warehouse, or other establishment in which the materials, supplies, articles or equipment of the general character described by the specifications and required under this contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business.

When the Contractor seeks credit toward the Contract ESBE goal using ESBE regular dealers, the ESBE Regular Dealer/Supplier Verification (Form CR-272) must be completed and signed by the ESBE regular dealer and then signed by the Contractor. Submit the form to the Department as per Section E of this Special Provision for the DCR/AA review, approval and determination of credit toward the Contract goal.

8. **ESBE Manufacturer.** ESBE manufacturers must be a firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required for this Contract.
  9. The Contractor shall not use an ESBE solely for the purpose of acting as an extra participant in a transaction, a contract or the Contract through which funds are passed in order to obtain the appearance of ESBE participation.
- I. **Good Faith Effort.** To demonstrate good faith efforts to meet the Contract ESBE goal, a Contractor shall, on an ongoing basis, document the steps it takes to obtain ESBE participation in accordance with 49 CFR Part 26.53 and Appendix A, including but not limited to the following:
1. Conducting market research to identify small business contractors and suppliers and soliciting through all reasonable and available means the interest of all certified ESBEs that have the capability to perform the work of the Contract. This may include attendance at pre-bid and business matchmaking meetings and events, advertising and/or written notices, posting of Notices of Sources Sought and/or Requests for Proposals, written notices or emails to all ESBEs listed in the State's directory of transportation firms that specialize in the areas of work desired (as noted in the ESBE directory) and which are located in the area or surrounding areas of the project.  
  
Solicit this interest as early in the acquisition process as practicable to allow the ESBEs to respond to the solicitation and submit a timely offer for the subcontract. Determine with certainty if the ESBEs are interested by taking appropriate steps to follow up initial solicitations.
  2. Selecting portions of the work to be performed by ESBEs in order to increase the likelihood that the ESBE goals will be achieved. This includes, where appropriate, breaking out Contract work items into economically feasible units (for example, smaller tasks or quantities) to facilitate ESBE participation, even when the Contractor might otherwise prefer to perform these work items with its own forces. This may include, where possible, establishing flexible timeframes for performance and delivery schedules in a manner that encourages and facilitates ESBE participation.
  3. Providing interested ESBEs with detailed information about the plans, specifications, and requirements of the Contract in a timely manner to assist them in responding to a solicitation with their offer for the subcontract. Attempt to contact all potential subcontractors on the same day and use similar methods to contact them;
  4. Negotiating in good faith with interested ESBEs. Make a portion of the work available to ESBE subcontractors and suppliers and select those portions of the work or material needs consistent with the available ESBE subcontractors and suppliers, so as to facilitate ESBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of ESBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional Agreements could not be reached for ESBEs to perform the work.  
  
Consider a number of factors in negotiating with subcontractors, including ESBE subcontractors. Take a firm's price and capabilities as well as Contract goals into consideration. The fact that there may be some additional costs involved in finding and using ESBEs is not in itself sufficient reason for failure to meet the Contract ESBE goal, as long as such costs are reasonable. The ability or desire of a Contractor to perform the work of a Contract with its own organization does not relieve the responsibility to make good faith efforts. Contractors are not, however, required to accept higher quotes from ESBEs if the price difference is excessive or unreasonable.
  5. Not rejecting ESBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union status) are not legitimate causes for the rejection or non-solicitation of bids in the Contractor's efforts to meet the Contract ESBE goal. Another practice considered an insufficient good faith effort is the rejection of the ESBE because its quotation for the work was not the lowest received. However, nothing in this paragraph shall be construed to require the Bidder to accept unreasonable quotes in order to satisfy the Contract ESBE goal.

Inability to find a replacement ESBE at the original price is not alone sufficient to support a finding that good faith efforts have been made to replace the original ESBE. The fact that the Contractor has the ability and/or desire to perform the contract work with its own forces does not relieve the Contractor of the obligation to make good faith efforts to find a replacement ESBE, and it is not a sound basis for rejecting a prospective replacement ESBEs reasonable quote.

Attempt, wherever possible, to negotiate prices with potential subcontractors which submitted higher than acceptable price quotes.

Keep a record of efforts, including the names of businesses contacted and the means and results of such contacts.

6. Making efforts to assist interested ESBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or Contractor.
7. Making efforts to assist interested ESBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.
8. Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, State, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of ESBEs.

If the Contractor fails to meet the Contract ESBE goal, they must submit documented evidence of good faith effort(s) with the CR-268 final ESBE Report to the DCR/AA for review and approval. Submittal of such information does not imply DCR/AA approval. The Department's DCR/AA has sole authority to determine whether the Contractor met the goal or made adequate good faith efforts to do so. If the DCR/AA determines that the Contractor has failed to meet the Contract ESBE goal or made adequate good faith effort to do so, the Department will follow Section 105.

## **J. Submission of Affirmative Action Program**

Contractors, subcontractors and professional service firms performing work for the Department are required to submit their company's Affirmative Action Program annually to the DCR/AA. Contractors must have an **approved** Affirmative Action Program on file in the DCR/AA no later than seven (7) State business days after the date of bid opening. No recommendations to award will be made without an approved Affirmative Action Program on file in the DCR/AA. Ensure subcontractors and professional service firms have an approved Affirmative Action Plan on file in the DCR/AA prior to their beginning work on a particular project.

The Annual Affirmative Action Program will include, but is not limited to the following:

1. Copy of company's comprehensive EEO/Affirmative Action Plan, , with a cover page that includes the company name and address, and signature of the Chief Executive or EEO Officer..
2. Copy of document designating the company's corporate EEO Officer, including the name, address and contact telephone number for the officer, and signature of the Chief Executive or President, on company letterhead..
3. Copy of the company's EEO Policy Statement on company letterhead, dated and signed by the Chief Executive and the EEO Officer.
4. Copy of the company's Sexual Harassment Policy on company letterhead.
5. EEO Legend such as letterhead, envelope, or published advertisement showing the company is an equal opportunity employer
6. Copy of document designating the company's the company's ESBE Liaison Officer to administer the firm's Emerging Small Business Program.
7. ESBE Affirmative Action Plan which is an explanation of affirmative action methods intended to be used to seek out and consider ESBEs as subcontractors, material suppliers or equipment lessors. This refers to the Contractor's ongoing responsibility, i.e., Emerging Small Business Enterprise/Affirmative Action activities after the award of the Contract and for the duration of the Contract.

- K. ESBE Liaison Officer.** Designate an ESBE Liaison Officer who shall be responsible for the administration of your ESBE program in accordance with the Contract, and ensuring that the Contractor complies with all provisions of 49 CFR Part 26.
- L. Consent by Department to Subletting.** The Department will not approve any subcontract proposed by the Contractor unless and until said Contractor has complied with the terms of the Contract.
- M. Conciliation.** Allegations of breach of any obligation contained in these ESBE provisions will be investigated by the DCR/AA, the Federal Highway Administration and/or the USDOT.
- N. Documentation**
  - 1. Requiring of Information.** The Department or the Federal funding agencies may at any time require information as specified in Section 107 and deemed necessary in the judgment of the Department to ascertain the compliance of any Bidder, Contractor or subcontractor with the terms of the Contract.
  - 2. Records and Reports.** The Contractor, subcontractors and other sub-recipients will keep such records as are necessary to determine compliance with its Emerging Small Business Enterprise Utilization obligations. These records kept will be designed to indicate:
    - a. The names of ESBE contractors, subcontractors, equipment lessors and material suppliers contacted for work on the Contract, including when and how contacted, and the specific Contract work items and other information provided to each.
    - b. Work, services and materials which are not performed or supplied by the Contractor.
    - c. The actual dollar value of work subcontracted and awarded to ESBEs, including specific Contract work items and cost of each work item.
    - d. The progress made and efforts taken in seeking out and utilizing ESBEs. This includes solicitations, specific Contract work items and the quotes and bids regarding those specific Contract work items, supplies, leases, or other contract items.
    - e. Detailed written documentation of all correspondence, contacts, telephone calls, including names and dates, to obtain the services of ESBEs on the Contract.
    - f. Records of all ESBEs and non-ESBEs who have submitted quotes/bids to the Contractor on the Contract.
    - g. Monthly CR-267 – Monthly Report, Utilization of DBE/ESBE or SBE, and other reports required for submission to the Department, hiring agreements, subcontracts, lease agreements, equipment rental agreements, supply tickets, delivery slips, payment information, and other records documenting ESBE utilization on the Contract.
    - h. Documentation outlining EEO workforce information for the Contract.
    - i. Documentation outlining EEO and Affirmative Action efforts made in the administration and performance of the Contract.
  - 3. Submission of Reports, Forms and Documentation.** Submit reports, forms and documentation, as required by the Department, on those contracts and other business transactions executed with ESBEs in such form and manner as may be prescribed by the Department. Failure to submit the required forms, reports or other documentation as required may result in payment being delayed or withheld as specified in Section 105, assessing sanctions, or termination of the contract as specified in Section 108. Submission of falsified forms, reports or other required documentation may result in termination of the Contract as specified in Section 108, investigation by the Department's Inspector General, or U.S.D.O.T., or both, and prosecution by the State Attorney General's Office or U.S. Department of Justice, or both.
  - 4. Maintaining Records.** All records must be maintained for a period of three (3) years following acceptance of final payment and will be available for inspection by the Department, or the Federal funding agencies.
- O. Prompt Payment to Subcontractors.** On Federal Aid Projects, payment to subcontractors, equipment lessors, suppliers and manufacturers is made in accordance with Section 109.
- P. Non-Compliance.** Failure by the Contractor to comply with the ESBE program, rules, regulations of 49 CFR Part 26 and these provisions in the administration of the Contract may result in denial or limit of credit toward the Contract ESBE goal, payment being delayed or withheld as specified in Section 105, assessing

sanctions, liquidated damages as specified in Section 108, default as specified in Section 108, debarment, or termination of the Contract as specified in Section 108. The Contractor may further be declared ineligible for future department contracts.

## FEDERAL AID PROJECT ATTACHMENT 2

### SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES ON NJDOT FEDERAL AID PROJECTS

#### (23 CFR, PART 230, SUBPART A, APPENDIX A TO SUBPART A - SPECIAL PROVISIONS)

The Contractor is obligated to comply with the policies, procedures and guidelines relative to the implementation of an Equal Employment Opportunity Program on Federal and Federal Aid Highway construction contracts, except for those contracts awarded under 23 U.S.C. 117, and to the preparation and submission of reports pursuant thereto as per 23 CFR, Part 230, Subpart A, Appendix A to Subpart A - Special Provisions.

#### A. General

1. **Equal Employment Opportunity Requirements.** Equal employment opportunity requirements not to discriminate and to take affirmative action to assure equal employment opportunity as required by Executive Order 11246 and Executive Order 11375 are set forth in Required Contract, Provisions (Form FHWA-1273 or 1316, as appropriate) and these Special Provisions which are imposed pursuant to 23 USC 140, as established by Section 22 of the Federal Aid Highway Act of 1968. The requirements set forth in the Contract constitute the specific affirmative action requirements for project activities under this Contract and supplement the equal employment opportunity requirements set forth in the Required Contract Provisions.
2. The Contractor will work with the State agencies and the Federal Government in carrying out Equal Employment Opportunity obligations and in their review of activities under the contract.
3. The Contractor, and all subcontractors holding subcontracts, not including material suppliers, of \$10,000 or more, will comply with the following minimum specific requirement activities of Equal Employment Opportunity: (The equal employment opportunity requirements of Executive Order 11246, as set forth in Volume 6, Chapter 4, Section 1, Subsection 1 of the Federal-Aid Highway Program Manual, are applicable to material suppliers, as well as contractors and subcontractors.) The Contractor will include these requirements in every subcontract of \$10,000 or more with such modification of language as is necessary to make them binding on the subcontractor.

- B. Equal Employment Opportunity Policy.** The Contractor will accept as its operating policy the following statement which is designed to further the provisions of equal employment opportunity to all persons without regard to their race, color, religion, sex, or national origin, and to promote the full realization of equal employment opportunity through a positive continuing program:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, sexual orientation, gender identity, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

- C. Equal Employment Opportunity Officer.** The Contractor will designate and make known to the Department contracting officers an Equal Employment Opportunity Officer (hereinafter referred to as the EEO Officer) who will have the responsibility for and must be capable of effectively administering and promoting an active EEO contractor program and who must be assigned adequate authority and responsibility to do so.

#### D. Dissemination of Policy

1. **Implementation.** All members of the Contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommended such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the Contractor's equal employment opportunity policy and contractual responsibilities to provide equal employment opportunity in each grade and classification of employment. To ensure compliance with the above agreement, the following actions will be taken as a minimum:

- a. **Initial Project Site Meeting.** Conduct an initial project site meeting with key supervisory and office personnel before or at the start of work, and then not less than once every 6 months, at which time the Contractor's Equal Employment Opportunity policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.
  - b. **EEO Obligations.** All new supervisory and office personnel will be given a thorough indoctrination by the EEO Officer or other knowledgeable company official covering all major aspects of the Contractor's equal employment opportunity obligations within 30 days following their reporting for duty with the Contractor.
  - c. All personnel engaged in direct recruitment for the project will be instructed by the EEO Officer or appropriate company official in the Contractor's procedures for locating and hiring minority and female employees.
2. Take the following actions to make the Contractor's equal employment opportunity policy known to all employees, prospective employees and potential sources of employees, i.e., schools, employment agencies, labor unions (where appropriate), college placement officers, etc.:
    - a. Place notices and posters setting forth the Contractor's equal employment opportunity policy in areas readily accessible to employees, applicants for employment and potential employees.
    - b. Bring the Contractor's equal employment opportunity policy and the procedures to implement such policy to the attention of employees by means of meetings, employee handbooks, and/or other appropriate means.

#### E. Recruitment

1. When advertising for employees, include in all advertisements for employees the notation: "An Equal Opportunity Employer". Publish all such advertisements in newspapers or other publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.
2. Unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minority and female applicants, including, but not limited to, State employment agencies, schools, colleges and minority-group organizations. To meet this requirement, the Contractor will, through their EEO Officer, identify sources of potential minority and female group employees, and establish procedures with such identified sources whereby minority and female group applicants may be referred to the Contractor for employment consideration.
3. In the event the Contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, he/she is expected to observe the provisions of that agreement to the extent that the system permits the Contractor's compliance with the equal employment opportunity contract provisions. (The US Department of Labor has held that where implementation of such agreements have the effect of discriminating against minorities or women, or obligates the Contractor to do the same, such implementation violates Executive Order 11246, as amended).
4. Encourage present employees to refer minority and female applicants for employment by posting appropriate notices or bulletins in areas accessible to all such employees. In addition, information and procedures pertaining to the referral of applicants will be discussed with employees.

#### F. Personnel Actions.

Wages, working conditions and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age or disability. The following procedures shall be followed:

1. Conduct a project site inspection at the start of work, and periodically thereafter, to ensure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.
2. Periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.
3. Periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the Contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

4. Promptly investigate all complaints of alleged discrimination made to the Contractor in connection with its obligations under this Contract, and will resolve or attempt to resolve such complaints, within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, corrective action shall include such other persons. Upon completion of each investigation, inform complainants of all their avenues of appeal.

**G. Training and Promotion**

1. Assist in locating, qualifying, and increasing the skills of minority and women who are applicants for employment or current employees.
2. Advise employees and applicants for employment of available training programs and entrance requirements for each.
3. Periodically review the training and promotion potential of minority and female employees and encourage eligible employees to apply for such training and promotion.

**H. On-the-Job Training.** The Contractor, as part of their equal employment opportunity affirmative action program, shall provide on-the-job training aimed at developing full journey people in the type of craft or job classification involved on the project.

1. Apprenticeship and Training Programs

The minimum length and type of training for each position will be established in the training program selected by the Contractor and approved by the Department and the Federal Highway Administration. The Department will approve a program if it is reasonably calculated to meet the equal employment opportunity obligations of the Contractor and to qualify the average apprentice or trainee for journey person status in the craft concerned by the end of the training period.

Apprenticeship programs registered with the US Department of Labor, Bureau of Apprenticeship and Training, (BAT) or with a State apprenticeship agency recognized by USDOL BAT and training programs approved but not necessarily sponsored by the US Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training shall also be considered acceptable provided such programs are being administered in a manner consistent with the equal employment obligations of Federal-aid highway contracts. Approval or acceptance of a training program shall be obtained from the DCR/AA prior to commencing work in the classifications covered by the Contractor's training program. The Division will review guidelines developed by the Contractor for approval or disapproval in accordance with the Training Guideline Approval Process described in the "Revised Standard Training Guidelines". The Division will also review existing guidelines for revision based on the same process.

It is the intention of these provisions that training be provided in construction crafts rather than clerk-typist or secretarial-type positions. Training is permitted in lower level management positions (e.g., timekeepers), where the training is oriented toward project site applications. Training in semi-skilled laborer positions is permitted provided that significant and meaningful training is available on the project site and approved by DCR/AA. Some offsite, classroom training (e.g., safety, first aid instruction) may be permitted as long as such training is an integral part of an approved training program and does not comprise a significant part of the overall training.

2. Contractor Submission and Department Approval of the Initial Training Program

At or after the preconstruction conference, and prior to the start of Work, submit a Training Program to the RE for review and comments prior to DCR/AA review and approval. The Contractor's training program shall include:

- a. Number of trainees or apprentices to be trained in all selected Training Positions,
- b. Standard Program Hours for all positions,
- c. Estimate of the Minimum Available Hours actually feasible on the project toward completion of the Standard Program Hours per position,
- d. Training schedule of Estimated Start Dates for the apprentices or trainees, developed and coordinated with the project's work progress schedule,
- e. Training Guidelines for all positions, and
- f. Training that will be provided by the Contractor and provided by Subcontractors.



The number of apprentices and trainees shall be distributed among the work classifications on the basis of the Contractor's needs and the availability of journey people in the various crafts within a reasonable area of recruitment. Submit timely, revised Training Programs, as required throughout the project to ensure that feasible and Maximum Available Training is provided. Maximum Available Training is defined as bringing each apprentice or trainee onto the project when work first becomes available in his/her craft and providing all available training until hours are no longer available.

3. Assignment of Training to Subcontractors

In the event that portions of the Contract work are subcontracted, determine how many, if any, of the apprentices or trainees are to be trained by subcontractors, provided, however, that the Contractor shall retain the primary responsibility for meeting the training requirements imposed by these Training Special Provisions. Ensure that these Training Special Provisions are made applicable to such subcontracts.

4. Reimbursement of the Contractor for Providing Training

The Contractor will be credited for each apprentice or trainee employed on the construction site who is currently enrolled or becomes enrolled in an approved program and will be reimbursed for such apprentices or trainees as provided hereinafter. Payment will be made under the pay item Trainees at the bid price in the Proposal per person-hour of training given an employee on this contract in accordance with an approved training program. If approved, payment will be made for training persons in excess of the number specified herein. This reimbursement will be made even though the Contractor receives additional training program funds from other sources, provided such other sources do not specifically prohibit the Contractor from receiving other reimbursement. Offsite, classroom training reimbursement may only be made to the Contractor when the company does one or more of the following and the apprentices or trainees are concurrently employed on a Federal-aid project: contributes to the cost of the training and/or provides instruction to apprentices or trainees or pays their wages during the offsite, classroom training (e.g., safety, first aid instruction) period.

Pay apprentices and trainees according to the project-specific New Jersey Department of Labor Prevailing Wage Rate Determination for the project. Trainees will be paid at least 60 percent of the appropriate minimum journeyman's rate specified in the Contract for the first half of the training period, 75 percent for the third quarter of the training period, and 90 percent for the last quarter of the training period, unless apprentices or trainees in an approved existing program are enrolled as trainees on this project. In that case, the appropriate rates approved by the Departments of Labor or Transportation in connection with the existing program shall apply to all trainees being trained for the same classification who are covered by this Training Special Provision.

**I. Apprentice/Trainee Requirements of the Contract**

The number of training positions will be \_\_\_\_\_, where feasible, consisting of at least \_\_\_\_\_ APPRENTICES and \_\_\_\_\_ TRAINEES. TRAINEE HOURS=\_\_\_\_\_.

Apprentices are defined as registered members of an approved apprenticeship program recognized by the United States Department of Labor (USDOL) Bureau of Apprenticeship and Training (BAT) or a New Jersey State apprenticeship agency recognized by USDOL BAT (e.g., New Jersey Department of Education). Graduates of the Pre-Apprenticeship Training Cooperative Program shall be classified as apprentices. Trainees are defined as skilled, semi-skilled or lower level management individuals receiving training per one of the approved NJDOT "Revised Standard Training Guidelines" (available from the DCR/AA).

Where feasible, assign at least 50% of the training positions to Skilled Crafts which include but are not limited to Carpenters, Dockbuilders, Electricians, Ironworkers and Operating Engineers.

1. Requirements for Recruitment, Selection and Approval of Apprentices and Trainees

Apprentices or trainees should be in their first year of apprenticeship or training. Interview and screen trainee candidates to determine if their actual work experience is equivalent to or exceeds that offered by the training program prior to submitting candidates on the Apprentice/Trainee Approval Memorandum (Form CR-1), via the RE, to the Division for review and approval or disapproval.

Training and upgrading of minorities (e.g., Blacks, Asians or Pacific Islanders, Native Americans or Alaskan Natives, Hispanics) and women toward journeyperson status is a primary objective of these Training Special Provisions. Accordingly, the Contractor shall make every effort to enroll minorities and women, by conducting systematic and direct recruitment through public and private sources likely to yield minority and female apprentices or trainees, to the extent that such persons are available within a reasonable area of recruitment. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not.

No employee shall be employed as an apprentice or trainee in any position in which he or she has successfully completed a training course leading to journeyperson status or in which he or she has been employed as a journeyperson. The Contractor shall satisfy this requirement by including appropriate questions in the employment application or by other suitable means and by submitting an accurate and complete "Apprentice/Trainee Approval Memorandum" (Form CR-1) prior to the apprentice or trainee starting work on the project. Regardless of the methods used, the Contractor's records should document the findings in each case.

Skilled craft trainees may complete up to 3,000 total training hours on Department projects, with an extension of an additional 1,000 hours permitted on a case-by-case basis. Semi-skilled and lower-level management trainees attain journeyperson status upon completion of a training guideline and may complete up to three (3) different positions.

2. Documentation Required to be Signed by Apprentices or Trainees, and provided to the Department

Prior to the apprentice/trainee starting work on the project, submit an accurate, complete and signed Apprentice/Trainee Approval Memorandum for each apprentice/trainee to the RE for review, and final approval by DCR/AA. Once the notice that said apprentice/trainee has been approved to work on the Contract, said apprentice/trainee may start work on the Contract. No credit will be given for apprentices/trainees prior to said apprentice/trainee being approved by DCR/AA.

At the start of training, provide the RE and each apprentice or trainee with an applicable "Training Guideline" and, at the conclusion of training, an accurate and complete "Training Certificate for Reporting Hours to NJDOT" (Form CR-3), showing hours of training satisfactorily completed.

Maintain and submit an accurate and complete "NJDOT Contractor's 1409 Quarterly Training Report" (Form-CR-1409) to the RE within ten (10) days of the end of each training quarter (e.g., January 10, April 10, July 10, October 10); also provide a copy to each apprentice or trainee.

Maintain and submit accurate and complete "Biweekly Training Reports" (Form CR-2) to the RE, and each apprentice or trainee, as periodic reports documenting their performance under the Contract.

3. Determining Good Faith Compliance of Contract Apprentice/Trainee Program

Per the approved program or guideline, provide Maximum Available Training to apprentices and trainees by beginning their training as soon as feasible with the start of craft work utilizing the skill involved on the project construction site and by retaining them as long as training opportunities exist in their crafts or until their training program positions are completed.

Recall apprentices or trainees released due to reductions in force when the work scope permits and they are available to return. When they are unavailable to resume training on the project site, submit written proof of recall efforts and replacement candidates and/or positions in a timely manner. Do not terminate apprentices or trainees prior to completion of their training program positions without Department consultation and authorization. Apprentices or trainees are not required to be on board for the entire length of the Contract.

The Contractor shall have fulfilled the contractual responsibilities under these Training Special Provisions as specified in 23 CFR 230, Appendix B to Subpart A of Part 230 if the company has provided Acceptable Training to the number of apprentices or trainees specified in this contract and/or by providing the remaining hours required to complete training positions begun by apprentices or trainees on other projects. The number trained shall be determined on the basis of the total number enrolled on the Contract for a significant period.

Demonstrate all steps that have been taken in pursuance of enrolling minorities and women in the training program positions, prior to a determination as to whether the Contractor is in compliance with the Training Special Provisions of the Contract.

Submit to the RE written training program summaries at the 50% time and/or cost stage of the contract and also prior to project completion, describing all good faith efforts and particularly addressing Maximum Available Training for incomplete training positions, per the procedure found in the revised "Instructions for Implementing the Training Special Provisions".

#### 4. Enforcement Measures and Contractor's Rating

Payment will not be made if either the failure to provide the required training or the failure to hire the apprentice or trainee as a journeyperson is caused by the Contractor and evidences a lack of good faith on the part of the Contractor in meeting the requirements of the Contract.

Per established procedures and scheduled Contract Compliance Reviews, the Contractor's performance will be rated and reviewed periodically by the Department.

Failure of a Contractor to comply with the Training Special Provisions of the Contract, and as specified in 23 CFR Part 230, Appendix B to Subpart A of Part 230, may result in the actions as set forth as specified in Section 105.

**J. Unions.** If the Contractor relies in whole or in part upon unions as a source of employees, use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women within the unions, and to effect such union referrals to the construction project. Actions by the Contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

1. Use maximum effort to develop, in cooperation with the unions, joint training programs aimed at qualifying more minorities and women for union membership and increasing their skills in order for them to qualify for higher paying employment.
2. Use maximum effort to incorporate an equal employment opportunity clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability.
3. Obtain information concerning the referral practices and policies of the labor unions except that to the extent such information is within the exclusive possession of the labor unions and such labor unions refuse to furnish this information to the Contractor, certify to the Department and set forth what efforts have been made to obtain this information.
4. In the event the unions are unable to provide the Contractor with a reasonable flow of minority and female referrals within the time limit set forth in the collective bargaining agreement, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age or disability, making full efforts to obtain qualified and/or qualifiable minorities and women. (The US Department of Labor has held that it shall be no excuse that the union with which the Contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees). In the event the union referral practice prevents the Contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such Contractor shall immediately notify the Department.

#### **K. Subcontracting**

1. Use maximum effort to solicit bids from and to utilize minority subcontractors or subcontractors with meaningful minority and female representation among their employees. The Contractor may use lists of minority-owned construction firms as issued by the Department.
2. Ensure subcontractor compliance with the Contract Equal Employment Opportunity obligations.

#### **L. Records and Reports**

1. Maintain records necessary to determine compliance with the Contractor's equal employment opportunity requirements. Documents will include the following:
  - a. Number of minorities, non-minorities, and women employed in each work classification on the Contract.

- b. Progress and efforts being made in cooperation with unions to increase employment opportunities for minorities and women (applicable only to Contractors who rely in whole or in part on unions as a source of their work force).
  - c. Progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority and female employees, and
  - d. Progress and efforts being made in securing the services of minority and female subcontractors or subcontractors with meaningful minority and female representation among their employees.
2. All such documents must be retained for a period of 3 years following completion of the Contract work and shall be available at reasonable times and places for inspection by authorized representatives of the Department and the Federal funding agencies.

## FEDERAL AID PROJECT ATTACHMENT 3

### REQUIREMENTS FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY ON NJDOT FEDERAL AID PROJECTS

#### (MINORITY AND WOMEN WORK EMPLOYMENT GOAL OBLIGATIONS)

##### A. Employment Goals.

The goals for minority and female participation, in the covered area, expressed in percentage terms for the Contractor's aggregate work force in each trade, on all construction work are:

<b>Minority And Women Employment Goal Obligations For Construction Contractors and Subcontractors on Federal Aid Projects</b>		
<b>County</b>	<b>Minority Participation Percent</b>	<b>Women Participation Percent</b>
Atlantic	18.2	6.9
Bergen	22.6	6.9
Burlington	17.3	6.9
Camden	17.3	6.9
Cape May	14.5	6.9
Cumberland	16.0	6.9
Essex	17.3	6.9
Gloucester	17.3	6.9
Hudson	12.8	6.9
Hunterdon	17	6.9
Mercer	16.4	6.9
Middlesex	5.8	6.9
Monmouth	9.5	6.9
Morris	17.3	6.9
Ocean	17	6.9
Passaic	12.9	6.9
Salem	12.3	6.9
Somerset	17.3	6.9
Sussex	17	6.9
Union	17.3	6.9
Warren	1.6	6.9

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or Federally assisted) performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the Contractor also is subject to the goals for both its Federally involved and non-Federally involved construction.

The Contractor's compliance with the Executive Order 11246 and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations

required by the specifications set forth in 41 CFR 60-4(3)a, and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the Contract, and in each trade. Make a good faith effort to employ minorities and women evenly on each project. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for sole purpose of meeting the Contractor's goals is a violation of the Contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

If a project is located in more than one county, the minority work hour goal, only, will be determined by the county which serves as the primary source of hiring or, if workers are obtained almost equally from one or more counties, the single minority goal will be the average of the affected county goals.

## **B. Reporting Requirements.**

1. Provide the Department with written notification in triplicate within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification will list the name, address and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the contract is to be performed.
2. Directly provide the Department with employment workforce data of the number and work hours of minority and non-minority group members and women employed in each work classification for the Contract. The Contractor, subcontractors, professional service firms and others working on the project must submit this information via a web-based application through the New Jersey portal, Vendor Workforce Reporting Manager. Instructions on how to complete Form CC-257R are provided within the web application. Instructions for registering and receiving the authentication code to access the web based application can be found at the Contractor Manpower Project Reporting CC-257R website at: <http://www.state.nj.us/transportation/business/civilrights/pdf/cc257.pdf>.
  - a. On a monthly basis, submit Form CC-257R through the web based application within 10 days following the end of each reporting month.
  - b. In addition to the above, submit a hard copy of the electronic Form CC-257R to the RE within 10 days following the end of each reporting month
  - c. Submit a copy of the confirmation e-mail of the successful submission of Monthly Employment Utilization Report to the RE within 10 days following the end of each reporting month.
3. All employment data must be accurate and consistent with the certified payroll records. The Contractor is responsible for ensuring compliance with these reporting requirements. Failure of the Contractor, subcontractors, professional service firms and others working on the Contract, to report monthly employment data may result in payments being delayed or withheld as per 105.01, or impact the Contractor's prequalification rating with the Department.

## **FEDERAL AID PROJECT ATTACHMENT 4**

### **FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONTRACT SPECIFICATIONS FOR NJDOT FEDERAL AID PROJECTS**

#### **(AS REQUIRED PER EXECUTIVE ORDER 11246 AS AMENDED BY EXECUTIVE ORDER 11375 AND IMPLEMENTING REGULATIONS AT 41 C.F.R. PART 60)**

A. As used in these Specifications:

1. Covered area means the County or Counties in which the Project is located.
2. Director means Director, Office of Federal Contract Compliance Programs, United States Department of Labor or any person to whom the Director delegates authority.
3. Employer identification number means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, US Treasury Department Form 941.
4. Minority includes:
  - a. Black (a person having origins in any of the black African racial groups not of Hispanic origin);
  - b. Hispanic (a person of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin, regardless of race);
  - c. Asian and Pacific Islander (a person having originals in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
  - d. American Indian or Alaskan Native (a person having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participating or community identification).

B. Whenever the Contractor, or any subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.

C. Implement the specific affirmative action standards provided in paragraphs F1 through 16 of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered Construction Contractors performing construction work in geographical areas where they do not have a Federal or Federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.

D. Neither the provisions of any collective bargaining agreement nor the failure by a union with whom the Contractor has a collective bargaining agreement to refer either minorities or women excuses the Contractor's obligations under these Specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.

E. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the US Department of Labor.

F. Take specific affirmative action to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. Document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:

1. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. Where possible, assign

two or more women to each construction project. Specifically ensure that all foreman, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment with specific attention to minority or female individuals working at such sites or in such facilities.

2. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
3. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred back to the Contractor, this shall be documented in the file with the reason therefore, along with whatever additional actions the Contractor may have taken.
4. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
5. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the source compiled under F2 above.
6. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc. by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
7. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
8. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
9. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
10. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.
11. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.



12. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
  13. Ensure that seniority practices, job classifications, work assignments and other personnel practices do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
  14. Ensure that all facilities and company activities are provided in a manner such that segregation on the basis of race, color, religion, sex, sexual orientation, gender identity, national origin cannot result. Do not require such segregated use by written or oral policies, nor tolerate such use by employee custom. Provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.
  15. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction Contractor and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
  16. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
- G. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (F1 through 16). The efforts of a Contractor association, joint contractor union, Contractor-Community, or other similar group of which the Contractor is a member and participant may be asserted as fulfilling any one or more of its obligations under F1 through 16 of these Specifications provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female work force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.
- H. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women both minority and nonminority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).
- I. Do not use the goals and timetables or affirmative action standards to discriminate against any person because of race, creed, color, national origin, age, ancestry, nationality, gender, disability, sex, affectional or sexual orientation, gender identity or expression, religion, and liability for military service.
- J. Do not enter into any Subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
- K. Carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspensions, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246 as amended.
- L. Implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph F of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

- M. Designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone number, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (such as mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.
- N. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (such as those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).
- O. Failure of the Contractor or subcontractors to comply with the nondiscrimination provisions of the Contract may result in payment being delayed or withheld as specified in 105.01; default as specified in 108.14, liquidated damages as specified in 108.20, or termination of the Contract as specified in 108.15.02 pending corrective and appropriate measures taken by the Contractor to the satisfaction of the Department.

## FEDERAL AID PROJECT ATTACHMENT 5

### STATE OF NEW JERSEY MANDATORY EQUAL EMPLOYMENT OPPORTUNITY LANGUAGE ON NJDOT FEDERAL AID PROJECTS

#### (N.J.S.A. 10:5-31 ET SEQ. (P.L.1975, C.127) N.J.A.C. 17:27-1.1 ET SEQ.)

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, upgrading, 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 Department 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 Dept. of LWD, Construction EEO Monitoring Program, 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 Dept. of LWD, Construction EEO Monitoring Program is satisfied that the Contractor or subcontractor is employing workers provided by a union which provides evidence, in accordance with standards prescribed by the Dept. of LWD, Construction EEO Monitoring Program, 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 sub-contractor 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 sub-contractor agrees to afford equal employment opportunities minority and women workers directly, consistent with this chapter. If the Contractor's or subcontractor's prior experience

with a construction trade union, regardless of whether the union has provided said assurances, indicates a significant possibility that the trade union will not refer sufficient minority and women workers consistent with affording equal employment opportunities as specified in this chapter, the Contractor or subcontractor agrees to be prepared to provide such opportunities to minority and women workers directly, consistent with this chapter, by complying with the hiring or scheduling procedures prescribed under “B” below; and the Contractor or subcontractor further agrees to take said action immediately if it determines that the union is not referring minority and women workers consistent with the equal employment opportunity goals set forth in this chapter.

- B. If good faith efforts to meet targeted employment goals have not or cannot be met for each construction trade by adhering to the procedures of “A” above, or if the contractor does not have a referral agreement or arrangement with a union for a construction trade, the Contractor or subcontractor agrees to take the following actions:
1. To notify the public agency compliance officer, the Dept. of LWD, Construction EEO Monitoring Program, 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:
    - a. The Contractor or subcontractor shall interview the referred minority or women worker.
    - b. 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 Dept. of LWD, Construction EEO Monitoring Program. 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.
    - c. 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 Dept. of LWD, Construction EEO Monitoring Program, the Contractor or subcontractor shall provide evidence of its good faith efforts to employ women and minorities from the list to fill vacancies.
    - d. 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 Dept. of LWD, Construction EEO Monitoring Program.
  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 Dept. of LWD, Construction EEO Monitoring

Program and submitted promptly to the Dept. of LWD, Construction EEO Monitoring Program 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 Department and the Department of LWD, Construction EEO Monitoring Program an initial project workforce report (Form AA-201) electronically provided to the Department by the Department of LWD, Construction EEO Monitoring Program, through its web-site, 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 Dept. of LWD, Construction EEO Monitoring Program, and to the Department.

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 Dept. of LWD, Construction EEO Monitoring Program as may be requested by the Dept. of LWD, Construction EEO Monitoring Program from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be re-requested by the Dept. of LWD, Construction EEO Monitoring Program for conducting a compliance investigation pursuant to N.J.A.C. 17:27-1.1 et seq.

It is the policy of the NJDOT that its contracts should create a work-force that reflects the diversity of the State of New Jersey. Therefore, contractors engaged by the NJDOT to perform under a construction contract shall put forth a good faith effort to engage in recruitment and employment practices that further the goal of fostering equal opportunities to minorities and women.

The Contractor must demonstrate to the NJDOT satisfaction that a good faith effort was made to ensure that minorities and women have been afforded equal opportunity to gain employment under the NJDOT contract with the Contractor. Payment may be withheld from a Contractor's contract for failure to comply with these provisions.

Evidence of a "good faith effort" includes, but is not limited to:

1. The Contractor shall recruit prospective employees through the New Jersey Career Connections website, managed by the Department of Labor and Workforce Development, available online at: [http://careerconnections.nj.gov/careerconnections/for\\_businesses.shtml](http://careerconnections.nj.gov/careerconnections/for_businesses.shtml)
2. The Contractor shall keep specific records of its efforts, including records of all individuals interviewed and hired, including the specific numbers of minorities and women;
3. The Contractor shall actively solicit and shall provide the NJDOT with proof of solicitations for employment, including but not limited to advertisements in general circulation media, professional service publications and electronic media; and
4. The Contractor shall provide evidence of efforts described at 2 above to the NJDOT no less frequently than once every 12 months.
5. The Contractor shall comply with the requirements set forth at N.J.A.C. 17:27-1.1 et seq.

## FEDERAL AID PROJECT ATTACHMENT 6

### INVESTIGATING, REPORTING AND RESOLVING EMPLOYMENT DISCRIMINATION AND SEXUAL HARASSMENT COMPLAINTS ON NJDOT FEDERAL AID PROJECTS

The Contractor and subcontractors agrees to the following requirements in order to implement fully the nondiscrimination provisions of the Contract.

The Contractor agrees that in instances when it receives from any person working on the project site a verbal or written complaint of employment discrimination, prohibited under N.J.S.A. 10:5-1 et seq., 10:2-1 et seq., 42 U.S.C. 2000(d) et seq., 42 U.S.C. 2000 (e) et seq. and Executive Order 11246, it shall take the following actions:

- A. Within one (1) working day commence an investigation of the complaint which shall include but not be limited to interviewing the complainant, the respondent, and all possible witnesses to the alleged act or acts of discrimination or sexual harassment.
- B. Prepare and keep for its use and file a detailed written investigative report which includes the following information:
  - 1. Investigatory activities and findings.
  - 2. Dates and parties involved and activities involved in resolving the complaint.
  - 3. Resolution and corrective action taken if discrimination or sexual harassment is found to have taken place.
  - 4. A signed copy of resolution of complaint by complainant and Contractor.

In addition to keeping in its files the above-noted detailed written investigative report, the Contractor shall keep for possible future review by the Department all other records, including but not limited to, interview memos and statements.

- C. Upon the request of the Department, provides to the Department within ten (10) calendar days a copy of its detailed written investigative report and all other records on the complaint investigation and resolution.
- D. Take appropriate disciplinary action against any Contractor employee, official or agent who has committed acts of discrimination or sexual harassment against any contractor employee or person working on the project. If the person committing the discrimination is a subcontractor employee, then the Contractor is required to attempt to effectuate corrective and/or disciplinary action by the subcontractor in order to establish compliance with the Contract.
- E. Take appropriate disciplinary action against any Contractor employee, official or agent who retaliates, coerces or intimidates any complaint and/or person who provides information or assistance to any investigation of complaints of discrimination or sexual harassment. If the person retaliating, coercing or intimidating a complainant or other person assisting an investigation is a subcontractor's employee, then the Contractor is required to attempt to effectuate corrective and/or disciplinary action by the subcontractor in order to establish compliance with the Contract.
- F. Ensure to the maximum extent possible that the privacy interests of all persons who give confidential information in aid of the Contractor's employment discrimination investigation are protected.

In conjunction with the above requirements, the Contractor shall develop and post a written sexual harassment policy for its work force.

Failure by the Contractor and subcontractors to comply with the above requirements may be cause for the Department to institute against the Contractor any and all enforcement proceedings and/or sanctions authorized by the Contract or by State and/or Federal law.

## FEDERAL AID PROJECT ATTACHMENT 7

### PAYROLL REQUIREMENTS FOR NJDOT FEDERAL AID PROJECTS

- A. Payroll Reports.** Each Contractor and subcontractor shall furnish the RE with payroll reports for each week of contract work. Such reports shall be submitted within 10 days of the date of payment covered thereby and shall contain the following information:
1. Each employee's full name and an individually identifying number, (e.g. the last four digits of the employee's social security number) of each such employee.
  2. The ethnicity and gender of each employee.
  3. Each employee's specific work classification (s).
  4. Entries indicating each employee's basis hourly wage rate(s) and, where applicable, the overtime hourly wage rate(s). Any fringe benefits paid to approved plans, funds or programs on behalf of the employee must be indicated. Any fringe benefits paid to the employee in cash must be indicated.
  5. Each employee's daily and weekly hours worked in each classification, including actual overtime hours worked (not adjusted).
  6. Each employee's gross wage.
  7. The itemized deductions made.
  8. The net wages paid.
- B. Statement of Wages.** Each Contractor or subcontractor shall furnish a statement each week to the RE with respect to the wages paid each of its employees engaged in contract work covered by the Copeland Act, as amended during the preceding weekly payroll period. The statement shall be executed by the Contractor or subcontractor or by an authorized officer or employee of the Contractor or subcontractors who supervises the payment of wages. Contractors and subcontractors must use the certification set forth on the Department's CR-347, or any form with identical wording. Each payroll submitted must be accompanied by a signed "Statement of Compliance".
- C. Maintaining Records.** Contractor and subcontractor shall maintain complete social security numbers and home address for employees. Government agencies are entitled to request or review all relevant payroll information, including social security numbers and addresses of employees. Contractors and subcontractors are required to provide such information upon request.
- D. Lack of Compliance.** Failure of the Contractor or subcontractor to comply with the payroll requirements may result in payment being delayed or withheld as specified in Section 105, default as specified in Section 108 or termination of the Contract as specified in Section 108.
- E. Diane B. Allen Equal Pay Act, N.J.S.A. 34:11-56.14b.** Pursuant to the DIANE B. ALLEN EQUAL PAY ACT, N.J.S.A. 34:11-56.14.b., the Contractor shall provide to the Commissioner of the New Jersey Department of Labor and Workforce Development, through certified payroll records required pursuant to P.L.1963, c.150 (C.34:11-56.25 et seq.), information regarding the gender, race, job title, occupational category, and rate of total compensation of every employee of the employer employed in the State in connection with the Contract. The Contractor shall provide the Commissioner, throughout the duration of the Contract, with an update to the information whenever payroll records are required to be submitted pursuant to P.L.1963, c.150 (C.34:11-56.25 et seq.). Completed forms should be emailed to: [equalpayact@dol.nj.gov](mailto:equalpayact@dol.nj.gov). If online submission is not possible, the form should be mailed to: Equal Pay Act, New Jersey Department of Labor and Workforce Development, P.O. Box 110, Trenton, NJ 08625-110.

Information regarding the Diane B. Allen Equal Pay Act and its requirements may be obtained from the New Jersey Department of Labor and Workforce Development (LWD) website at: <https://nj.gov/labor/equalpay/equalpay.html>

LWD forms may be obtained from the online web site at: [https://nj.gov/labor/forms\\_pdfs/equalpayact/MW-562withoutfein.pdf](https://nj.gov/labor/forms_pdfs/equalpayact/MW-562withoutfein.pdf)

## FEDERAL AID PROJECT ATTACHMENT 8 FHWA-1273

### REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Non-segregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion
- XI. Certification Regarding Use of Contract Funds for Lobbying
- XII. Use of United States-Flag Vessels:

#### ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

#### I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under title 23, United States Code, as required in 23 CFR 633.102(b) (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services). 23 CFR 633.102(e).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider. 23 CFR 633.102(e).

Form FHWA-1273 must be included in all Federal-aid designbuild contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design

services, purchase orders, rental agreements and other agreements for supplies or services) in accordance with 23 CFR 633.102. The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in solicitation-for-bids or request-for-proposals documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract). 23 CFR 633.102(b).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract. 23 CFR 633.102(d).

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. 23 U.S.C. 114(b). The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors. 23 U.S.C. 101(a).

#### II. NONDISCRIMINATION (23 CFR 230.107(a); 23 CFR Part 230, Subpart A, Appendix A; EO 11246)

The provisions of this section related to 23 CFR Part 230, Subpart A, Appendix A are applicable to all Federal-aid construction contracts and to all related



construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR Part 60, 29 CFR Parts 1625-1627, 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 601.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR Part 60, and 29 CFR Parts 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), and Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR Part 230, Subpart A, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

**1. Equal Employment Opportunity:** Equal Employment Opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (**see** 28 CFR Part 35, 29 CFR Part 1630, 29 CFR Parts 1625-1627, 41 CFR Part 60 and 49 CFR Part 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140, shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR Part 35 and 29 CFR Part 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to

comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and

the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract. 23 CFR 230.409 (g)(4) & (5).

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, sexual orientation, gender identity, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

**2. EEO Officer:** The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

**3. Dissemination of Policy:** All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action or are substantially involved in such action, will be made fully cognizant of and will implement the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office

employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer or other knowledgeable company official.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

**4. Recruitment:** When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

**5. Personnel Actions:** Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age or disability.

The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to ensure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

**6. Training and Promotion:**

a. The contractor will assist in locating, qualifying, and

increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs (i.e., apprenticeship and on-the-job training programs for the geographical area of contract performance). In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

**7. Unions:** If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. 23 CFR 230.409. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

**8. Reasonable Accommodation for Applicants / Employees with Disabilities:** The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established thereunder. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

**9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment:** The contractor shall not discriminate on the grounds of race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors,

suppliers, and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

## 10. Assurances Required:

a. The requirements of 49 CFR Part 26 and the State DOT's FHWA-approved Disadvantaged Business Enterprise (DBE) program are incorporated by reference.

b. The contractor, subrecipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

- (1) Withholding monthly progress payments;
- (2) Assessing sanctions;
- (3) Liquidated damages; and/or
- (4) Disqualifying the contractor from future bidding as nonresponsible.

c. The Title VI and nondiscrimination provisions of U.S. DOT Order 1050.2A at Appendixes A and E are incorporated by reference. 49 CFR Part 21.

**11. Records and Reports:** The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

- (1) The number and work hours of minority and nonminority group members and women employed in each work classification on the project;
- (2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment

opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women.

b. The contractors and subcontractors will submit an annual

report to the contracting agency each July for the duration of the project indicating the number of minority, women, and nonminority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

## III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of more than \$10,000. 41 CFR 60-1.5.

As prescribed by 41 CFR 60-1.8, the contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, sexual orientation, gender identity, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location under the contractor's control where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

## IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size), in accordance with 29 CFR 5.5. The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. 23 U.S.C. 113. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. 23 U.S.C. 101. Where applicable law requires that projects be treated as a project on a Federal-aid highway, the provisions of this subpart will apply regardless of the location of the project. Examples include: Surface Transportation Block Grant Program projects funded under 23 U.S.C. 133 [excluding recreational trails projects], the Nationally Significant Freight and Highway Projects funded under 23 U.S.C. 117, and National Highway Freight Program projects funded under 23 U.S.C. 167.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA1273 format and FHWA program requirements.

## **1. Minimum wages (29 CFR 5.5)**

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall

be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. (1) The contracting officer shall require that any class of

laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

## **2. Withholding (29 CFR 5.5)**

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued

payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

## **3. Payrolls and basic records (29 CFR 5.5)**

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b. (1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only

need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency.

(2) Each payroll submitted shall be accompanied by a “Statement of Compliance,” signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under 29 CFR 5.5(a)(3)(ii), the appropriate information is being maintained under 29 CFR 5.5(a)(3)(i), and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for

submission of the “Statement of Compliance” required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under 18 U.S.C. 1001 and 31 U.S.C. 231.

c. The contractor or subcontractor shall make the records

required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

#### **4. Apprentices and trainees (29 CFR 5.5)**

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable

wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the

journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. 23 CFR 230.111(e)(2). The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

**5. Compliance with Copeland Act requirements.** The contractor shall comply with the requirements of 29 CFR part 3, which are



incorporated by reference in this contract as provided in 29 CFR 5.5.

- 6. Subcontracts.** The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

- 7. Contract termination: debarment.** A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

- 8. Compliance with Davis-Bacon and Related Act requirements.** All rulings and interpretations of the DavisBacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract as provided in 29 CFR 5.5.

- 9. Disputes concerning labor standards.** As provided in 29 CFR 5.5, disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

**10. Certification of eligibility (29 CFR 5.5)**

- a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

- c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

**V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT**

Pursuant to 29 CFR 5.5(b), the following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

- 1. Overtime requirements.** No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek. 29 CFR 5.5.

- 2. Violation; liability for unpaid wages; liquidated damages.** In the event of any violation of the clause set forth in paragraph 1 of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph 1 of this section, in the sum currently provided in 29 CFR 5.5(b)(2)\* for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph 1 of this section. 29 CFR 5.5.

\* \$27 as of January 23, 2019 (See 84 FR 213-01, 218) as may be adjusted annually by the Department of

Labor; pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990).

**3. Withholding for unpaid wages and liquidated damages.** The FHWA or the contacting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 2 of this section. 29 CFR 5.5.

**4. Subcontracts.** The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs 1 through 4 of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs 1 through 4 of this section. 29 CFR 5.5.

## VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System pursuant to 23 CFR 635.116.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" in paragraph 1 of Section VI refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or

without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions: (based on longstanding interpretation)

- (1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
- (2) the prime contractor remains responsible for the quality of the work of the leased employees;
- (3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
- (4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract. 23 CFR 635.102.

2. Pursuant to 23 CFR 635.116(a), the contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. Pursuant to 23 CFR 635.116(c), the contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract. (based on longstanding interpretation of 23 CFR 635.116).

5. The 30-percent self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements. 23 CFR 635.116(d).

## **VII. SAFETY: ACCIDENT PREVENTION**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR Part 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract. 23 CFR 635.108.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR Part 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704). 29 CFR 1926.10.

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized

representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

## **VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federalaid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR Part 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or

to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 11, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

#### **IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT (42 U.S.C. 7606; 2 CFR 200.88; EO 11738)**

This provision is applicable to all Federal-aid construction contracts in excess of \$150,000 and to all related subcontracts. 48 CFR 2.101; 2 CFR 200.326.

By submission of this bid/proposal or the execution of this contract or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, subcontractor, supplier, or vendor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal Highway Administration and the Regional Office of the Environmental Protection Agency. 2 CFR Part 200, Appendix II.

The contractor agrees to include or cause to be included the requirements of this Section in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements. 2 CFR 200.326.

#### **X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION**

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2

CFR Parts 180 and 1200. 2 CFR 180.220 and 1200.220.

#### **1. Instructions for Certification – First Tier Participants:**

- a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.
- b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction. 2 CFR 180.320.
- c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default. 2 CFR 180.325.
- d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances. 2 CFR 180.345 and 180.350.

- e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900-180.1020, and 1200. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier

Participant” refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). “Lower Tier Participant” refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction. 2 CFR 180.330.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold. 2 CFR 180.220 and 180.300.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. 2 CFR 180.300; 180.320, and 180.325. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. 2 CFR 180.335. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (<https://www.sam.gov/>). 2 CFR 180.300, 180.320, and 180.325.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by

a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default. 2 CFR 180.325.

\* \* \* \* \*

## **2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:**

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.335;.

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property, 2 CFR 180.800;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification, 2 CFR 180.700 and 180.800; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default. 2 CFR 180.335(d).

(5) Are not a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(6) Are not a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability (USDOT Order 4200.6 implementing appropriations act requirements).

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal. 2 CFR 180.335 and 180.340.

### **3. Instructions for Certification - Lower Tier Participants:**

(Applicable to all subcontracts, purchase orders, and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200). 2 CFR 180.220 and 1200.220.

a. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances. 2 CFR 180.365.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900 – 180.1020, and 1200.

You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated. 2 CFR 1200.220 and 1200.332.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold. 2 CFR 180.220 and 1200.220.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award

Management website (<https://www.sam.gov/>), which is compiled by the General Services Administration. 2 CFR 180.300, 180.320, 180.330, and 180.335.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment. 2 CFR 180.325.

\* \* \* \* \*

#### **Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:**

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals: (a) is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.355;

(b) is a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(c) is a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability. (USDOT Order 4200.6 implementing appropriations act requirements)

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal.

\* \* \* \* \*

#### **XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000. 49 CFR Part 20, App. A.

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

MARAD by the Ocean Transportation Intermediary on behalf of the contractor). 46 CFR 381.7.

## **XII. USE OF UNITED STATES-FLAG VESSELS:**

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, or any other covered transaction. 46 CFR Part 381.

This requirement applies to material or equipment that is acquired for a specific Federal-aid highway project. 46 CFR 381.7. It is not applicable to goods or materials that come into inventories independent of an FHWA funded-contract.

When oceanic shipments (or shipments across the Great Lakes) are necessary for materials or equipment acquired for a specific Federal-aid construction project, the bidder, proposer, contractor, subcontractor, or vendor agrees:

1. To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels. 46 CFR 381.7.

2. To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b)(1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Office of Cargo and Commercial Sealift (MAR-620), Maritime Administration, Washington, DC 20590. (MARAD requires copies of the ocean carrier's (master) bills of lading, certified onboard, dated, with rates and charges. These bills of lading may contain business sensitive information and therefore may be submitted directly to



**ATTACHMENT A - EMPLOYMENT AND MATERIALS  
PREFERENCE FOR APPALACHIAN DEVELOPMENT  
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS  
ROAD CONTRACTS** (23 CFR 633, Subpart B, Appendix

B) This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

- a. To the extent that qualified persons regularly residing in the area are not available.
- b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.
- c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

## **FEDERAL AID ATTACHMENT 9**

### **STATE MANDATORY ADDENDUM TO FHWA-1273 REQUIRED CONTRACT PROVISIONS, FEDERAL AID CONSTRUCTION CONTRACTS AS AMENDED OR SUPPLEMENTED**

**ALL CONTRACTORS MUST PROVIDE THIS LANGUAGE IN ANY CONTRACT WITH THEIR SUBCONTRACTORS AS REQUIRED BY 2 CFR PART 200 AND 2 CFR PART 200 APPENDIX II AND IS CURRENTLY NOT INCLUDED IN FHWA-1273, BUT IS REFLECTED IN PROPOSED AMENDMENTS NOT YET FINALIZED.**

FHWA-1273 shall be read to include:

1. All references to “race, religion, sex, color, national origin, age or disability” shall be read to include “sexual orientation and gender identity”.
2. SECTION IV. DAVIS-BACON ACT AND RELATED ACT PROVISIONS shall apply if the project is defined to be on a Federal Aid highway, regardless of the location of the project in compliance with 23 USC 133(i).
3. SECTION IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT shall require in conformance with 2 CFR Part 200 and 2 CFR Part 200 Appendix II that contractors on all Federal Aid construction contracts in excess of \$150,000 and all related subcontracts, supply contracts and vendor contracts “comply with all related standards, orders or regulations issued pursuant to the Clean Air Act (42 USC 7401-7671q) and the Federal Water Pollution Control Act as amended (33 USC 1251-1387) as required by 2 CFR 200.326.
4. SECTION X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION shall be read to comply with 2 CFR Part 200 and 2 CFR Part 200 Appendix II to replace the Excluded Parties List System with the System For Award Management (SAM) as required by 2 CFR Part 180.
5. If the work requires that cargo be shipped by oceanic transport or across the Great Lakes, in compliance with Section 3511 of the Duncan Hunter National Defense Authorization Act of 2009 amending the Cargo Preference Act, each contract shall require that cargoes financed “in any way with Federal funds for the account of any persons unless otherwise exempted” requires the use of US-flag vessels to transport the materials or equipment acquired for a specific Federal Aid construction project.

## FEDERAL AID ATTACHMENT 10

### FEDERAL MANDATORY EQUAL OPPORTUNITY LANGUAGE ON FEDERAL AID PROJECTS

#### (AUTHORITY SUBJECT TO 41 CFR 60-1.4 IN COMPLIANCE WITH 2 CFR PART 200 AND 2 CFR PART 200 APPENDIX II)

All Contractors regardless of the value of the contract shall have this mandatory clause with their subcontractors:

The Contractor/Subcontractor hereby agrees that it will incorporate or cause to be incorporated into any contract for construction work, or modification thereof, as defined in the regulations of the Secretary of Labor at 41 CFR Chapter 60, which is paid for in whole or in part with funds obtained from the Federal Government or borrowed on the credit of the Federal Government pursuant to a grant, contract, loan, insurance, or guarantee, or undertaken pursuant to any Federal program involving such grant, contract, loan, insurance, or guarantee, the following equal opportunity clause:

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

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following:  
  
Employment, upgrading, 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 setting forth the provisions of this nondiscrimination clause.
- (2) The contractor 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 race, color, religion, sex, sexual orientation, gender identity, or national origin.
- (3) The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.
- (4) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (5) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (6) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

- (7) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- (8) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance:

*Provided*, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: *Provided*, That if the applicant so participating is a State or local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or under the contract.

The applicant agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance.

The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order. In addition, the applicant agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

## FEDERAL AID ATTACHMENT 11

### BYRD ANTI-LOBBYING CERTIFICATION

Pursuant to 31 USC 1352 and 49 CFR part 21, Contractor and all subcontractors are required to comply with this Attachment. Contractor and all subcontractors shall be responsible to fill out Disclosure of Lobbying Activities Standard Form – LLL (as contained in this Attachment) and report it to the NJDOT Contract Compliance Unit for appropriate disclosure to the Federal Government.

All Contracts and subcontracts over \$100,000 shall require the following mandatory language in every contract:

The undersigned certifies, to the best of his or her knowledge and belief, that:

1. No federal appropriate funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, or any employee of a Member of Congress in connection with this Federal contract, grant, loan or cooperative agreement, the undersigned shall complete and submit Disclosure of Lobbying Activities Standard Form – LLL (Federal Aid Attachment Form 11) in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when the transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not that \$10,000 and not more than \$100,000 for each such failure.

Pt. 21, App. B

31 CFR Subtitle A (7-1-10 Edition)

# APPENDIX B TO PART 21—DISCLOSURE FORM TO REPORT LOBBYING DISCLOSURE OF LOBBYING ACTIVITIES

Approved by OMB  
0348-0046Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352  
(See reverse for public burden disclosure.)

<b>1. Type of Federal Action:</b> <input type="checkbox"/> a. contract <input type="checkbox"/> b. grant <input type="checkbox"/> c. cooperative agreement <input type="checkbox"/> d. loan <input type="checkbox"/> e. loan guarantee <input type="checkbox"/> f. loan insurance		<b>2. Status of Federal Action:</b> <input type="checkbox"/> a. bid/offer/application <input type="checkbox"/> b. initial award <input type="checkbox"/> c. post-award		<b>3. Report Type:</b> <input type="checkbox"/> a. initial filing <input type="checkbox"/> b. material change <b>For Material Change Only:</b> year _____ quarter _____ date of last report _____	
<b>4. Name and Address of Reporting Entity:</b> <input type="checkbox"/> Prime <input type="checkbox"/> Subawardee Tier _____, if known:  Congressional District, if known: _____			<b>5. If Reporting Entity in No. 4 is Subawardee, Enter Name and Address of Prime:</b>  Congressional District, if known: _____		
<b>6. Federal Department/Agency:</b>			<b>7. Federal Program Name/Description:</b>  CFDA Number, if applicable: _____		
<b>8. Federal Action Number, if known:</b>			<b>9. Award Amount, if known:</b> \$ _____		
<b>10. a. Name and Address of Lobbying Entity</b> (if individual, last name, first name, MI):  (attach Continuation Sheet(s) SF-LLL-A, if necessary)			<b>b. Individuals Performing Services</b> (including address if different from No. 10a) (last name, first name, MI):  (attach Continuation Sheet(s) SF-LLL-A, if necessary)		
<b>11. Amount of Payment</b> (check all that apply): \$ _____ <input type="checkbox"/> actual <input type="checkbox"/> planned			<b>13. Type of Payment</b> (check all that apply): <input type="checkbox"/> a. retainer <input type="checkbox"/> b. one-time fee <input type="checkbox"/> c. commission <input type="checkbox"/> d. contingent fee <input type="checkbox"/> e. deferred <input type="checkbox"/> f. other; specify: _____		
<b>12. Form of Payment</b> (check all that apply): <input type="checkbox"/> a. cash <input type="checkbox"/> b. in-kind; specify: nature _____ value _____					
<b>14. Brief Description of Services Performed or to be Performed and Date(s) of Service, including officer(s), employee(s), or Member(s) contacted, for Payment Indicated in Item 11:</b>  (attach Continuation Sheet(s) SF-LLL-A, if necessary)					
<b>15. Continuation Sheet(s) SF-LLL-A attached:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No					
<b>16. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.</b>			<b>Signature:</b> _____ <b>Print Name:</b> _____ <b>Title:</b> _____ <b>Telephone No.:</b> _____ <b>Date:</b> _____		
<b>Federal Use Only:</b>			<b>Authorized for Local Reproduction</b> Standard Form - LLL		

## Office of the Secretary of the Treasury

## Pt. 21, App. B

**INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES**

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Use the SF-LLL-A Continuation Sheet for additional information if the space on the form is inadequate. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a covered Federal action.
2. Identify the status of the covered Federal action.
3. Identify the appropriate classification of this report. If this is a followup report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.
4. Enter the full name, address, city, state and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
5. If the organization filing the report in item 4 checks "Subawardee", then enter the full name, address, city, state and zip code of the prime Federal recipient. Include Congressional District, if known.
6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.
8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitation for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal agency). Include prefixes, e.g., "RFP-DE-90-001."
9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.
10. (a) Enter the full name, address, city, state and zip code of the lobbying entity engaged by the reporting entity identified in item 4 to influence the covered Federal action.  
(b) Enter the full names of the individual(s) performing services, and include full address if different from 10 (a). Enter Last Name, First Name, and Middle Initial (MI).
11. Enter the amount of compensation paid or reasonably expected to be paid by the reporting entity (item 4) to the lobbying entity (item 10). Indicate whether the payment has been made (actual) or will be made (planned). Check all boxes that apply. If this is a material change report, enter the cumulative amount of payment made or planned to be made.
12. Check the appropriate box(es). Check all boxes that apply. If payment is made through an in-kind contribution, specify the nature and value of the in-kind payment.
13. Check the appropriate box(es). Check all boxes that apply. If other, specify nature.
14. Provide a specific and detailed description of the services that the lobbyist has performed, or will be expected to perform, and the date(s) of any services rendered. Include all preparatory and related activity, not just time spent in actual contact with Federal officials. Identify the Federal official(s) or employee(s) contacted or the officer(s), employee(s), or Member(s) of Congress that were contacted.
15. Check whether or not a SF-LLL-A Continuation Sheet(s) is attached.
16. The certifying official shall sign and date the form, print his/her name, title, and telephone number.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, D.C. 20503.



Pt. 21, App. B

31 CFR Subtitle A (7-1-10 Edition)

**DISCLOSURE OF LOBBYING ACTIVITIES  
CONTINUATION SHEET**

Approved by OMB  
0348-0046

Reporting Entity: \_\_\_\_\_ Page \_\_\_\_\_ of \_\_\_\_\_

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Standard Form - ULL-A