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Letting June 17, 2022

Notice to Bidders, Specifications and Proposal



Contract No. 99689
JACKSON County
Section 18-00138-00-FP (Carbondale)
Route FAU 9715 (New Era Road)
Project 4WRW-872 ()
District 9 Construction Funds

Prepared by

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Illinois Department of Transportation

NOTICE TO BIDDERS

- 1. **TIME AND PLACE OF OPENING BIDS.** Electronic bids are to be submitted to the electronic bidding system (iCX-Integrated Contractors Exchange). All bids must be submitted to the iCX system prior to 12:00 p.m. June 17, 2022 at which time the bids will be publicly opened from the iCX SecureVault.
- **2. DESCRIPTION OF WORK**. The proposed improvement is identified and advertised for bids in the Invitation for Bids as:

Contract No. 99689
JACKSON County
Section 18-00138-00-FP (Carbondale)
Project 4WRW-872 ()
Route FAU 9715 (New Era Road)
District 9 Construction Funds

Reconstruction of New Era Road from Glenn Road to Airport Road in Carbondale.

- 3. **INSTRUCTIONS TO BIDDERS**. (a) This Notice, the invitation for bids, proposal and letter of award shall, together with all other documents in accordance with Article 101.09 of the Standard Specifications for Road and Bridge Construction, become part of the contract. Bidders are cautioned to read and examine carefully all documents, to make all required inspections, and to inquire or seek explanation of the same prior to submission of a bid.
 - (b) State law, and, if the work is to be paid wholly or in part with Federal-aid funds, Federal law requires the bidder to make various certifications as a part of the proposal and contract. By execution and submission of the proposal, the bidder makes the certification contained therein. A false or fraudulent certification shall, in addition to all other remedies provided by law, be a breach of contract and may result in termination of the contract.
- 4. AWARD CRITERIA AND REJECTION OF BIDS. This contract will be awarded to the lowest responsive and responsible bidder considering conformity with the terms and conditions established by the Department in the rules, Invitation for Bids and contract documents. The issuance of plans and proposal forms for bidding based upon a prequalification rating shall not be the sole determinant of responsibility. The Department reserves the right to determine responsibility at the time of award, to reject any or all proposals, to re-advertise the proposed improvement, and to waive technicalities.

By Order of the Illinois Department of Transportation

Omer Osman, Secretary

CONTRACT 99689

INDEX FOR SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2022

This index contains a listing of SUPPLEMENTAL SPECIFICATIONS, frequently used RECURRING SPECIAL PROVISIONS, and LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS.

No ERRATA this year.

SUPPLEMENTAL SPECIFICATIONS

Std. Spec. Sec. Page No.

No Supplemental Specifications this year.

RECURRING SPECIAL PROVISIONS

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BDE SPECIAL PROVISIONS

The following special provisions indicated by an "X" are applicable to this contract. An * indicates a new or revised special provision for the letting.

| <u>File</u> Name | <u>Pg.</u> | Special Provision Title | Effective | Revised |
|---------------------|------------|---------------------------------------------------------------------------------------|--------------------------------|------------------------------|
| 80099 | | Accessible Pedestrian Signals (APS) | April 1, 2003 | Jan. 1, 2022 |
| * 80274 | | Aggregate Subgrade Improvement | April 1, 2012 | April 1, 2022 |
| 80192 | | Automated Flagger Assistance Device | Jan. 1, 2008 | |
| 80173 | 51 | X Bituminous Materials Cost Adjustments | Nov. 2, 2006 | Aug. 1, 2017 |
| 80246 | | Bituminous Surface Treatment with Fog Seal | Jan. 1, 2020 | Jan. 1, 2022 |
| 80436 | 53 | X Blended Finely Divided Minerals | April 1, 2021 | |
| 80241 | | Bridge Demolition Debris | July 1, 2009 | |
| 50261 | | Building Removal-Case I (Non-Friable and Friable Asbestos) | Sept. 1, 1990 | April 1, 2010 |
| 50481 | | Building Removal-Case II (Non-Friable Asbestos) | Sept. 1, 1990 | April 1, 2010 |
| 50491 | | Building Removal-Case III (Friable Asbestos) | Sept. 1, 1990 | April 1, 2010 |
| 50531 | | Building Removal-Case IV (No Asbestos) | Sept. 1, 1990 | April 1, 2010 |
| 80384 | 54 | X Compensable Delay Costs | June 2, 2017 | April 1, 2019 |
| 80198 | | Completion Date (via calendar days) | April 1, 2008 | |
| 80199 | | Completion Date (via calendar days) Plus Working Days | April 1, 2008 | |
| 80293 | | Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet | April 1, 2012 | July 1, 2016 |
| 80311 | | Concrete End Sections for Pipe Culverts | Jan. 1, 2013 | April 1, 2016 |
| 80261 | | Construction Air Quality – Diesel Retrofit | June 1, 2010 | Nov. 1, 2014 |
| 80434 | 58 | X Corrugated Plastic Pipe (Culvert and Storm Sewer) | Jan. 1, 2021 | |
| 80029 | 70 | X Disadvantaged Business Enterprise Participation | Sept. 1, 2000 | Mar. 2, 2019 |
| 80229 | | Fuel Cost Adjustment | April 1, 2009 | Aug. 1, 2017 |
| 80433 | | Green Preformed Thermoplastic Pavement Markings | Jan. 1, 2021 | Jan. 1, 2022 |
| 80422 | | High Tension Cable Median Barrier | Jan. 1, 2020 | Jan. 1, 2022 |
| * 80443 | | High Tension Cable Median Barrier Removal | April 1, 2022 | |
| * 80444 | | Hot-Mix Asphalt – Patching | April 1, 2022 | |
| 80442 | | Hot-Mix Asphalt – Start of Production | Jan. 1, 2022 | 0 1 0 0001 |
| 80438 | | Illinois Works Apprenticeship Initiative – State Funded Contracts | June 2, 2021 | Sept. 2, 2021 |
| 80411 | | Luminaires, LED | April 1, 2019 | Jan. 1, 2022 |
| 80045 | | Material Transfer Device | June 15, 1999 | Jan. 1, 2022 |
| 80418 | 00 | Mechanically Stabilized Earth Retaining Walls X Portland Cement Concrete – Haul Time | Nov. 1, 2019 | Nov. 1, 2020 |
| 80430 3426I | 80 | | July 1, 2020 | lan 1 2022 |
| 80395 | | Railroad Protective Liability Insurance | Dec. 1, 1986 Jan. 1, 2018 | Jan. 1, 2022 |
| 80340 | | Sloped Metal End Section for Pipe Culverts Speed Display Trailer | April 2, 2014 | Jan. 1, 2022 |
| 80127 | | Steel Cost Adjustment | April 2, 2014 April 2, 2014 | Jan. 1, 2022 Jan. 1, 2022 |
| 80397 | 81 | X Subcontractor and DBE Payment Reporting | April 2, 2014 April 2, 2018 | Jan. 1, 2022 |
| 80391 | 82 | X Subcontractor Mobilization Payments | Nov. 2, 2017 | April 1, 2019 |
| 80437 | 02 | Submission of Payroll Records | April 1, 2021 | 7 tpm 1, 2010 |
| 80435 | | Surface Testing of Pavements – IRI | Jan. 1, 2021 | Jan. 1, 2022 |
| 80410 | | Traffic Spotters | Jan. 1, 2019 | 0dii. 1, 2022 |
| 20338 | | Training Special Provisions | Oct. 15, 1975 | Sept. 2, 2021 |
| 80318 | | Traversable Pipe Grate for Concrete End Sections | Jan. 1, 2013 | Jan. 1, 2018 |
| 80429 | | Ultra-Thin Bonded Wearing Course | April 1, 2020 | Jan. 1, 2022 |
| 80440 | | Waterproofing Membrane System | Nov. 1, 2021 | • |
| 80302 | 83 | X Weekly DBE Trucking Reports | June 2, 2012 | Nov. 1, 2021 |
| 80427 | | Work Zone Traffic Control Devices | Mar. 2, 2020 | • |
| 80071 | 84 | X Working Days | Jan. 1, 2002 | |
| | | | | |

SPECIAL PROVISIONS

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", Adopted January 1, 2022, the latest editions of the "Manual on Uniform Traffic Control Devices for Streets and Highways", the "Manual of Test Procedures for Materials", Standard Specifications for Water and Sewer Main Construction in Illinois", in effect on the date of invitation for bids and the "Supplemental Specifications and Recurring Special Provisions" indicated in the Check Sheet included herein which apply to and govern the construction of Section 18-00138-00-FP and in case of conflict with any part or parts of said Specifications, the said Special Provisions shall take precedence and shall govern.

LOCATION OF PROJECT

The proposed project is located along FAU 9715 (New Era Road) in Jackson County, northwest of Carbondale, IL. Project limits are from approximately Glenn Road on the south and Airport Road on the North.

DESCRIPTION OF WORK

Name: FAU 9715 – New Era Road Reconstruction Length: Approximately 1,770 Ft. (0.34 Mile)

Proposed Improvement:

The work includes removal of existing site features as shown on the plans and construction of new curb and gutter, roadside ditches, culverts, storm sewer system, placement of aggregate base course, placement of hot-mix asphalt pavement, placement of portland cement concrete pavement, Portland cement concrete drives, placement of aggregate shoulders, pavement striping, fencing, seeding, mulching, erosion control and various other work items necessary to complete the work as shown/described in the contract documents.

UTILITIES

Approximate utility locations are shown on the plans. It is the <u>CONTRACTOR'S RESPONSIBILITY</u> to contact all utility companies, have them locate the depth and location of their facilities, make arrangements for adjustment if necessary and to carry on his/her operations accordingly.

The locations of existing, known utilities are shown in an approximate way only. The Contractor shall determine the exact location of existing facilities before commencing work and agrees to be fully responsible for any and all damages which may have been caused by his/her failure to locate and preserve any and all existing utilities. The contractor shall verify with each utility company that their facilities have been marked, relocated and/or verified as necessary. If existing utilities are encountered which fall within the proposed improvement, they shall be relocated by the appropriate company at no expense to the City, the State or the Contractor if the utilities are within the existing Right of Way or Prescriptive Use Right of Way or Prescripti

responsibility, however, to coordinate this work with the various utility companies in making these relocations. Current communication is in place with the below listed utility companies for them to evaluate their existing facilities and provide any related relocations prior to or during construction of this project.

Call J.U.L.I.E. before beginning work 1-800-892-0123 (OR 811)

| <u>Utility</u> | Type | Approximate Location | Date of Relocation |
|-----------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Ameren Traven Watts 618-315-8440 | Normal Distribution Gas Line | Along East side of exist. road from south end to approx. Sta. 114+00. | Pending/During Const. |
| Ameren Victor Onyewuche 217-413-7379 | High Pressure Distribution Gas | Along East side of exist. road from South end to North end | Pending/During Const. |
| | High Pressure Transmission Gas | Along East side of exist. road from Approx. Sta. 113+00 to the North end | Pending/During Const. |
| Frontier Nathan Speraneo 618-997-0659 | Telephone/Fiber | On West and East side of road from South end to North end | Pending/During Const. |
| Egyptian Electric Brad Austin 800-606-1505 | Overhead and Under Ground Electric | Along West side of exist. road with several lines crossing the road to the East | Pending/During Const. |
| Murdale Water Dist. Curt Mezo 618-684-8039 | Water Main/Service | Main located along West edge of exist. road. Service lines on both sides of road. | Pending/During Const. |
| Clearwave Roth Clayton 618-841-2600 | Fiber Optic | Along West side of Road from South end to North end | Pending/During Const. |
| City of Carbondale Tony Harrison 618-457-3240 | Sanitary Sewer | 6" Force Main from approx. Sta. 103+00 south along East side of road. Sewer Main under East side of the road from South end to North end. | d |

The above represents the best information available and is only included for the convenience of the bidder. The applicable provisions of Articles 105.07, 107.20, 107.37-107.40 and 109.02 of the Standard

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Specifications shall apply except as modified herein.

If any utility adjustment or removal is required by the Contractor's operations (whether known or unknown), the Contractor shall coordinate with the Utility Company. The Contractor shall make initial utility adjustment/scheduling attempts before/during construction. If non-typical delays are encountered, the Contractor shall inform the Engineer in writing. The Engineer and the City will then contact the Utility Company to assist with the utility adjustment/scheduling.

TRAFFIC CONTROL PLAN

Traffic control shall be according to the applicable sections of the Standard Specifications for Road and Bridge Construction, the applicable guidelines contained in the "Illinois Manual on Uniform Traffic Control Devices for Street and Highways", these special provisions, and any special details and Highway Standards contained herein and in the plans.

Attention is called to Article 107.09 and 107.14 of the Standard Specifications for Road and Bridge Construction and the following Highway Standards:

| 701001 | 701006 | 701011 | 701201 | 701301 | 701306 |
|--------|--------|--------|--------|--------|--------|
| 701311 | 701901 | 780001 | BLR 21 | BLR 22 | |

Attention is also called to the following special provisions:

Work Zone Traffic Control Surveillance
Traffic Control and Protection (Special)

Staging Areas
Construction and Maintenance Signs

New Era Road shall be closed to thru traffic; contractor shall provide access for local traffic at all times. In advance of any road closure, the Contractor shall notify the Engineer and shall install message boards at each end indicating the date of closure. The message board shall be installed at least 7 days prior to the closure of the road.

At the intersection at the North end of New Era Road with Airport Road, provide a W20-3(0)-48 Road Closed Ahead and Road Closed 500 FT signs according to BLR 22-7. New Era Road shall be barricaded and closed to all thru traffic according to BLR 22-7.

At the intersection at the South end of New Era Road with Glenn Road, provide a W20-3(0)-48 Road Closed Ahead and Road Closed 500 FT signs according to BLR 22-7. New Era Road shall be barricaded and closed to all thru traffic according to BLR 22-7.

Additional signing may be required by the Engineer, if in his opinion, public safety demand it.

The Contractor shall maintain access to all of the private entrances for local traffic at all times.

The Contractor shall coordinate the closure of the eastern entrances to the CIMCO facility with its owner as necessary. The owner has agreed to reroute commercial and public access to their northern entrance from Airport Road during the construction. Contractor shall Notify CIMCO a minimum of three weeks

before entrance closure.

The Contractor shall furnish, erect, maintain and remove all warning signs, flags, barricades and lights according to Article 107.4 and Section 701 of the Standard Specifications for Road ad Bridge Construction, the latest edition of the "Manual on Uniform Traffic Control Devices for Street and Highways" and/or as directed by the Engineer. Any additional cost to the Contractor due to furnishing, erecting, maintaining and removing all warning signs, flags, barricades and lights as required by the contract will be included in the cost of the various items of work involved and no additional compensation will be allowed.

TRAFFIC CONTROL AND PROTECTION, (SPECIAL)

This work shall conform to the applicable portions of Section 701 of the Standards Specifications and applicable portions of the Traffic Control Plan included in the contract documents. This item of work shall consist of furnishing, installing, maintaining, relocating and removing all traffic control devises used for regulating, warning or directing traffic during construction of this project.

All traffic control devices used in this project shall conform to the plans, special provisions, traffic control standards and the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways". No modification of these requirements will be allowed without prior written approval from the Engineer.

Existing signs within the construction limits shall be removed and provided to the City of Carbondale.

Traffic Control devices shall include all temporary traffic control and regulatory signs as described herein, and their supports, barricades with sand bags, plastic drums, channelizing devices, warning lights, arrow boards if necessary, flaggers or any other device used for regulating, warning or guiding traffic through the construction zone and guiding traffic around the construction.

The Contractor shall be responsible for the proper location, installation and arrangement of all traffic control devices as shown on the plans or as directed by the Engineer. The Contractor, when directed by the Engineer, shall remove all traffic control devices which were furnished, installed and maintained by him/her under this contract, and such devices shall remain in place until specific authorization for relocation or removal is received from the Engineer.

Traffic Control pay items will only be paid for in full if utilized to their full intent. If the Contractor elects to use traffic control procedures less than those specified, even if approved by the Engineer, deductions will be made.

All labor, equipment and materials required to complete this work shall be paid for at the contract unit price per LUMP SUM for TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

CONSTRUCITON AND MAINTENANCE SIGNS

This work shall be in accordance with Article 1091.03 and Article 1106.02 of the Standard Specifications, Highway Standard 701901, the plans and as modified by this Special Provision.

All warning signs shall have minimum dimensions of 48"x48" with black legend on a fluorescent orange

reflectorized background which shall, at a minimum, meet Type AP reflectivity requirements outlined in Article 1091.03.

All construction signs mounted on permanent support for use in temporary traffic control having an area of 10 square feet or more shall be mounted on two 4"x4" or two 4"x6" wood posts.

Type A metal post (two for each sign) conforming to Article 1006.29 of the Standards Specifications may be used in lieu of wood posts. Type A metal posts used for these signs may be unfinished.

This work will not be measured and paid for separately but shall be included in the bid unit price per the LUMP SUM for TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

MAILBOX REMOVE AND REPLACE

All mailboxes and non-mailbox containers (i.e. newspaper delivery boxes) within the construction limits and which interfere with construction operations shall be removed and placed in suitable locations for mail delivery and the proper parties notified of the relocation, as directed by the Engineer. As soon as construction operations permit, the mailboxes shall be set at their permanent locations.

The permanent relocations of mailboxes as well as the removal of the present mailbox and post, and relocating the existing mailbox on a new base and post shall be INCLUDED in the cost of the mounting. This work shall include all labor and necessary materials to facilitate the relocation. Any temporary relocations shall not be paid for separately.

All mailbox adjustments shall be as shown on the details. Any mailbox or post damaged by the construction shall be repaired or replaced, as directed by the Engineer, at the sole expense of the Contractor.

All labor, equipment and materials required to complete this work shall be paid for at the contract unit price per EACH for MAILBOX REMOVE AND REPLACE.

STAGING AREAS

This work shall be in accordance with Articles 107.20 and 402.10 of the Standard Specifications, the plans and as modified by this Special Provision.

The Contractor will need to construction and maintain a Temporary Construction Entrance at all Staging Area(s) to prevent sediment from leaving the site and shall be responsible for maintaining the temporary access to the satisfactions of the Engineer throughout the periods that it is in place. The Contractor shall furnish, haul, place, spread and compact said material in degraded areas at the discretion of the Engineer as many times as the Engineer requires throughout construction. The Contractor is not to reuse the material on-site, except for temporary access or as directed by the Engineer. All excess material shall be disposed of per the Standard Specifications, Article 202.03.

This work will not be measured and paid for separately but shall be included in the bid unit price per the LUMP SUM for TRAFFIC CONTROL AND PROTECTION, (SPECIAL)

EROSION CONTROL

Storm Water Pollution Prevention Plan (SWPPP)

The plans include a specific erosion control plan, as required by IEPA, to comply with the National Pollutant Discharge Elimination System (NPDES) requirements.

The Contractor is required to adhere to the requirements of the said permit, the details shown on the plans, the Highway Standards, the requirements of this Special Provision and the directions from the Engineer throughout the project. The Contractor shall not receive additional compensation for compliance with said requirements or any remediation required as determined solely by the Engineer. A Contractor's Certification Statement is included herein and is made part of the Contract. The Contractor shall sign and date the certification sheet after award. The Contractor shall also complete any necessary Erosion Control Forms and submit them throughout the project.

At locations of stockpiles, on-site or off-site, the Contractor is reminded that erosion control measures will be required at no additional cost to the Contract.

The Contractor is reminded that the proposed erosion control measures will require maintenance and cleaning at no additional cost the Contract.

A copy of the SWPPP is included in the Special Provisions.

No additional compensation beyond that specified will be allowed to the Contractor for complying with requirements of this Special Provision.

CONSTRUCTION LAYOUT

The Contractor shall furnish and place construction layout stakes for this project. The City will provide adequate points along the proposed centerlines and control points (traverse stations and bench marks) as shown in the plans and listed herein. Any additional control points set by the City will be identified in the field to the Contractor and all field notes will be kept by the Resident Engineer. In the event the Contractor removes or damages necessary control points established by the City, the Contractor shall reimburse the City for re-staking.

The Contractor shall provide field forces, equipment and material to set all additional stakes for this project which are needed to establish offset stakes, reference points and any other horizontal or vertical controls, including supplementary bench marks, necessary to secure a correct layout of the work. The Contractor will not be required to set additional stakes to locate a utility line which is not included as a pay item in the contract nor to determine property lines between private properties.

The Contractor shall be responsible for having the finished work conform to the lines, grades, elevations and dimensions called for in the plans, and all work shall be performed according to normally accepted self-checking surveying practices. Any inspection or checking of the Contractor's layout by the City and the acceptance of all or any part of it shall not relieve the Contractor of his/her responsibility to secure the proper dimensions, grades and elevations of the several parts of the work.

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Responsibility of the City

- a. The City will locate the proposed centerline of all roads and streets, but the centerline of entrances will not be located or referenced by the City. Locating the proposed roadway centerline will consist of establishing points such as Pcs, PTs and POTs as are necessary to provide a line of sight.
- b. Upon award of the project, control points already established near the project will be discussed with the Contractor, and a determination will be made if additional control points will be necessary. These will then be field located by the City for the Contractor.
- c. Stakes set for a, and b, above will be identified in the field to the Contractor.
- d. The City will make random checks of the Contractor's staking to determine if the work is in conformance with the plans.
- e. Where the Contractor, in setting construction stakes, discovers discrepancies, the City will check to determine their nature and make whatever revisions are necessary in the plans.
- f. The City will accept responsibility for the accuracy of the initial control points as provided herein.
- g. It is not the responsibility of the City, except as provided herein, to check the correctness of the Contractors stakes' any errors apparent will be immediately called to the Contractors attention and s(he) shall make the necessary correction before the stakes are used for construction purposes.
- h. Where the plan quantities for excavation are to be used as the final pay quantities, the City will make sufficient checks to determine if the work has been completed in conformance with the plan cross sections.
- i. All measurements to determine the final pay quantities will be made by the Contractor subject to final check by the City. The City will compute all quantities from the data supplied by the Contractor and maintain the Quantity Book used to generate the pay estimates. All pay estimates and change orders shall be created by the City and approved by the Contractor.

Responsibility of the Contractor

- a. The Contractor shall establish from the given control points all other control points necessary to construct the individual project elements. S(he) shall provide the Engineer adequate control near each individual element to allow adequate checking of construction operations. This includes, but is not limited to, line and grade stakes, line and grade nails in form work, and/or filed or etched marks in substantially completed construction work. It is the Contractor's responsibility to tie in centerline control points in order to preserve them during construction operations. The Contractor shall set all line stakes for he construction of fences by the Contractor.
- b. At the completion of the grading operations, the Contractor shall set stakes at 50 ft. Station intervals along each profile grade line. These stakes will be used for checks to determine if the earthwork operations have been completed in conformance with the plan cross sections.
- c. Stakes for line and grade of pavement and/or shoulders shall be set at sufficient station intervals (not to exceed 50ft) to assure substantial conformance to plan line grade.
- d. Prior to beginning work, all structure center lines are to be established by the Contractor and to be check by the City. The Contractor will provide a detailed structure layout diagram showing stake lines and offset distance.

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- e. All modifications or adjustments approved by the City shall be documented by the Contractor in field books and noted on a set of plans so that "As-built" drawings may be created. Documentation shall consist of the required stations, elevations, offsets, etc. to correctly indicate the changes in these drawings.
- f. Where the Contractor, in setting construction stakes, discovers discrepancies, the City will check to determine their nature and make whatever revisions are necessary in the plans, including the re-cross sectioning of the area involved and all additional re-staking necessary.

All labor, equipment and materials required to complete this work shall be paid for at the contract unit price per LUMP SUM for CONSTRUCTION LAYOUT.

TREE REMOVAL

This work shall be in accordance with Section 201 of the Standard Specifications, the plans and as modified by this Special Provision.

Due to the possibility of endangered/threatened species or habitat, trees three (3) inches or greater in diameter at breast height shall not be cleared April 1 through September 30.

For all trees to be removed, the Contractor shall remove the root balls to the satisfaction of the Engineer.

All labor, equipment and materials required to complete this work shall be paid for at the contract unit price per UNIT for TREE REMOVAL of the applicable unit diameter and per ACRE for TREE REMOVAL (ACRE).

BEDDING, HAUNCHING AND INITIAL BACKFILL FOR DRAINAGE RELATED ITEMS

This work shall be in accordance with Section 208, Article 542.04 of the Standard Specifications, the plans and as modified by this Special Provision.

All trenches shall have bedding and haunching including entrance culverts and those beyond the two (2) foot distance from pavements surfaces (i.e. roadway, entrance, etc..). All bedding shall be placed in no greater than six (6) inch lifts. No bedding shall be placed over any standing or frozen water.

All aggregate materials used for bedding, haunching and initial backfill shall be of the same type described in TRENCH BACKFILL.

All labor, equipment and materials required for this work shall not be paid for separately but shall be included in the unit price for PIPE CULVERTS and STORM SERWERS of the class, type and dimeter specified.

PIPE CULVERTS AND FLARED END SECTIONS

This work shall be in accordance with Section 542 of the Standard Specifications, the plans and as modified by this Special Provision.

For all Class C pipe culverts of the size and type specified, Article 542.03 shall be modified such that only

Precoated Galvanized Corrugated Steel Pipe will be allowed. Aluminum flared end sections shall be provided in accordance with Article 542.07 (c).

All culverts shall be installed according to Article 542.04. For backfill of the Class C pipe culverts, all aggregate material required to backfill the trench shall be paid for at the contract unit price for TRENCH BACKFILL.

All labor, equipment and materials required to complete this work shall be paid for at the contract unit price per FOOT for PIPE CULVERTS of the class, type and size specified and at the contract unit price per EACH for the ALUMINUM FLARED END SECTIONS of the size specified.

STORM SEWERS AND FLARED END SECTIONS

This work shall be in accordance with Section 550 of the Standard Specifications, the plans and as modified by this Special Provision.

For all Class A storm sewer pipe of the size and type specified, Article 550.03 shall be modified such that only Reinforced Concrete Pipe will be allowed. Precast Reinforced Concrete flared end sections shall be provided in accordance with Article 542.07 (b).

All storm sewer shall be installed according to Article 550 and trench backfill used with Method 1 in accordance with Article 550.07. For backfill of the Class C pipe culverts, all aggregate material required to backfill the trench shall be paid for at the contract unit price for TRENCH BACKFILL.

All labor, equipment and materials required to complete this work shall be paid for at the contract unit price per FOOT for STORM SEWERS of the class, type and size specified and at the contract unit price per EACH for the PRECAST REINFORCED CONCRETE FLARED END SECTIONS of the size specified.

COMBINATION CURB AND GUTTER

This work shall be in accordance with Section 606 of the Standard Specifications, the plans and as modified by this Special Provision.

Type B-6.18 Combination Curb and Gutter shall be constructed as per detail 5/G-8.1. The new curb and gutter shall be tied to the existing curb and gutter, existing structures and or new structures with #4 dowel bars, epoxied into place at 12" O.C minimum.

Curb drainage flumes shall be constructed as per detail 3/G-8.1 at the locations shown on the plans. Drainage flumes shall be included in the contract unit price per FOOT for COMBINATION CURB AND GUTTER of the type specified.

INLETS, SPECIAL

This work shall be in accordance with Section 602 of the Standard Specifications, the plans and as modified by this special Provision.

Page 10

The inlet structure shall be a precast unit as per detail 2/G-8.1. The frame and grate shall be as called out on the plans and included in the contract unit price for INLETS, SPECIAL. If overall depth of the inlet will not allow for a cone section at the top, a flat slab top will be allowed. All flat slab tops shall be below grade and not exposed. Final dirt elevations shall be to the top of the casting.

All labor, equipment and materials required to complete this work shall be paid for at the contract unit price per EACH for the INLETS, SPECIAL.

MANHOLES, SPECIAL

This work shall be in accordance with Section 602 of the Standard Specifications, the plans and as modified by this special Provision.

The manhole structure shall be a precast unit as per detail 6/G-8.1. The frame and grate shall be as called out on the plans and included in the contract unit price for MANHOLES, SPECIAL. If overall depth of the inlet will not allow for a cone section at the top, a flat slab top will be allowed. All flat slab tops shall be below grade and not exposed. Final dirt elevations shall be to the top of the casting.

All labor, equipment and materials required to complete this work shall be paid for at the contract unit price per EACH for the MANHOLE, SPECIAL.

TRENCH BACKFILL

This work shall be in accordance with Section 208 and Article 542.04(f) and 550.07 Method 1 of the Standard Specifications, the Highway standards, the plans and as modified by this Special Provision.

References to "Fine Aggregate" in Section 208 shall be removed. Course aggregate of the type described in Article 1004.05 (a) may be utilized. Article 1004.05(b) requirements shall apply. Article 1004.05 (c) shall be revised such that only gradations CA 6 or CA 10 shall be utilized.

Frozen backfill material shall not be placed in any excavations, and no backfill shall be placed over any ponding or frozen water.

The aggregate used as Trench Backfill shall extend to the bottom of the proposed aggregate base course unless otherwise stated in the plans.

Measurement for payment shall be per Article 208.03

All labor, equipment and materials required to complete this work shall be paid for at the contract unit price per CUBIC YARD for TRENCH BACKFILL.

EARTHWORK

This work shall be in accordance with applicable portions of Sections 202, 205 and 211 of the Standard Specifications, the plans and as modified by this Special Provision.

During excavation, material shall be separated and classified as material suitable for embankment beneath

the roadway, material suitable for embankment outside the roadway and topsoil material.

Erosion control items required for stockpiling (on-site and off-site) shall not be paid for separately as these needs will be dependent on the Contractor's operations.

Transporting stockpiled material from previous excavation operations to various locations on the job shall be done at no additional cost to the contract.

The Contractor shall strip the topsoil material (assumed to be 5") and stockpile it for use in appropriate locations in the proposed project.

Construction of the proposed improvements will require the Contractor to remove 2" of the existing pavement surface. The remaining aggregate base will be classified as Earth Excavation. In these areas, it has already been included in the earthwork calculations.

All labor, equipment and materials required to complete this work shall be included in the contract unit price per CUBIC YARD for EARTH EXCAVATION and per CUBIC YARD for TOPSOIL EXCAVATION AND PLACEMENT.

SUBGRADE PREPARATION

This work shall be in accordance with Section 202, 205, 301 and 351 of the Standard Specifications, the Highway Standards, the plans and as modified by this Special Provision.

Prior to placement of the geotechnical fabric, the subgrade shall be proof rolled according to Article 351.10. No additional compensation will be allowed for this work.

All labor, equipment and materials required to complete this work shall be included in the current unit price per CUBIC YARD for EARTH EXCAVATION.

RIGHT-OF-WAY MARKERS & PROPERTY CORNERS

All right-of-way markers or property corners present at the time of construction at or outside the right-of-way line shall be preserved. Any marker that must be removed for construction shall be located in the field by an Illinois Registered Land Surveyor hired by the City prior to being disturbed and relocated by said surveyor at the same location after the construction is complete. This work shall not be a part of this contract and will be paid for by the City. The Contractor shall coordinate scheduling of this project with the City so they have time to tie in the locations of the existing markers and or corners.

WOOD POST AND RAIL FENCE

The work covered by this specification shall consist of furnishing all labor, equipment, and materials required to erect and install new split rail fences as shown on the drawings. Said fences shall be constructed of the same materials as the existing fences so as to blend in with fencing that will not be removed. All materials and methods shall be subject to the Engineers approval. All materials used in the

fence shall be new, however with the approval of the Engineer some of the existing materials may be reused so long as they are structurally sound and in good repair.

All labor, equipment and materials required to complete this work shall be paid for at the Contract Unit Price per FOOT for WOOD POST AND RAIL FENCE.

REMOVE INLET BOX

This work shall be in accordance with Section 605 of the Standard Specifications, the Highway standards, the plans and as modified by this Special Provision.

This item of work shall consist of removing the existing concrete chlorinator structure that is connected to the private sanitary sewer system at Station 104+19.93, 27.43' Left. Contractor shall remove the structure in its entirety and locate the inlet pipe coming into the existing structure. The existing pipe shall be cut and removed behind the new Right of Way line and a new clean out installed according to detail 2/G-8.2. The downstream end of the new clean out shall be capped with a water tight PVC SCH 40 pipe cap. Contractor shall verify the existing size, location and material of the existing pipe and provide the proper connection to the existing pipe.

Contractor shall remove the existing concrete storm inlet at Station 106+27.80, 18.28' Left. Contractor shall remove the structure in its entirety and provide Trench Backfill to fill any void created by this removal.

All labor, equipment and materials required to complete this work shall be paid for at the Contract Unit Price per EACH for REMOVE INLET BOX and at the contract unit price per CUBIC YARD for TRENCH BACKFILL.

FENCE REMOVAL

This work shall include all labor, materials, and equipment necessary to remove and dispose of existing woven wire fences, barbed wire fences, chain link fences and split rail fences as designated on the plans. Work shall include removal of all fencing materials, wire, fabric, posts, gates, footings and other fence appurtenances. Post holes shall be backfilled with earth materials or compacted trench backfill (if located within two feet of proposed pavements) as directed by the Engineer, any and all backfilling of post holes shall be considered incidental to contract pay items for fence removal.

This work shall be paid for at the contract unit price per FOOT for WOVEN WIRE FENCE REMOVAL or contract unit price for FOOT for FENCE REMOVAL, no additional compensation shall be allowed.

CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED

This work shall be governed by applicable portions of Section 664 of the Standard Specifications for Road and Bridge Construction.

This work shall include all labor, materials, and equipment necessary to relocate existing chain link fences, posts, barb wire, gates and appurtenances to locations as shown on the plans. The Contractor shall salvage and reuse existing fencing fabric, gates, and hardware as appropriate and directed by the Engineer. The

Page 13

contractor shall provide new posts, tension wires, bolts and nuts, and other hardware of like kind to the existing materials as necessary and as directed by the Engineer. All posts shall be set in concrete as directed by the Engineer and as per Highway Standard 664001.

This work shall be paid for at the contract UNIT PRICE per FOOT for CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED, no additional compensation shall be allowed.

WOVEN WIRE FENCE

This work shall include all labor, materials, and equipment necessary to install new woven wire fence as shown on drawings and Highway Standard 665001. All materials and construction shall be as per the details in the plans. All fencing wire shall be securely attached to corner posts, end posts, and line posts using standard methods and materials as approved by the Engineer. Corner and or end posts shall be placed at the ends of all fencing, at all bends, at all corners, and at intervals not to exceed 200 feet or as directed by the Engineer or necessary to provide proper tensioning of the fencing wires. All fence wires shall be tensioned to the satisfaction of the Engineer using standard wire fence installation methods.

This work shall be paid for at the contract UNIT PRICE per FOOT for WOVEN WIRE FENCE, 4', no additional compensations shall be allowed.

BOX CULVERT END SEC., CULVERT NO. 1 AND NO. 2

This work shall include all labor, materials, and equipment necessary to install Precast Box Culvert End Sections as per Article 540 and as detailed and shown on the plan.

The west end section for Box culvert No.1 shall be as shown in detail 2/15 and not paid for separately but shall be considered incidental to the contract unit price for BOX CULVERT END SEC. NO.1.

All other end sections shall be as detailed on the plans for precast box culvert apron end sections.

This work shall be paid for at the contract UNIT PRICE per EACH for BOX CULVERT END SEC. NO.1 and BOX CULVERT END SEC. NO.2 and no additional compensations shall be allowed.

PRECAST CONCRETE BOX CULVERT 4'X2'

This work shall include all labor, materials, and equipment necessary to install two new Precast Concrete Box Culverts as per Article 540 and as detailed and shown on the plans.

Box Culvert No. 1 shall connect to the structure as shown in detail 2/15 on the West, upstream end. Box Culvert No. 1 shall also have a Circular opening in the top and located on the East end for a Neenah R-2502 Frame and Grated Lid (Type D Grate). As shown on the plans and not paid for separately but shall be considered incidental to the contract unit price for PRECAST CONCRETE BOX CULVERT 4'X2'. The East, downstream end shall have box culvert end section as detailed in the plans.

Box Culvert No. 2 shall have Precast Box Culvert End Sections on both ends as detailed in the plans.

This work shall be paid for at the contract UNIT PRICE per FOOT for PRECAST CONCRETE BOX CULVERT, 4'X2', no additional compensations shall be allowed.

SOIL BORINGS AND PAVEMENT DESIGN RECOMMENDATIONS NEW ERA ROAD CARBONDALE, ILLINOIS

Prepared for:
City of Carbondale
200 South Illinois Ave
Carbondale, Illinois 62901

Prepared by:

Holcomb Foundation Engineering
Carbondale, Illinois

March 25, 2019

HFE File Number: H-19037

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Holcomb Foundation Engineering Co., Inc.

SOILS • BITUMINOUS • CONCRETE • ENGINEERING AND TESTING

393 Wood Road Carbondale, IL 62901 PHONE 618-529-5262 TOLL FREE 800-333-1740 FAX 618-457-8991

March 25, 2019

City of Carbondale 200 S. Illinois Avenue Carbondale, IL 62901

Attention: Mr. Sean Henry, P.E.

Re: Soil Borings and Pavement Design Recommendations

New Era Road Carbondale, Illinois HFE File H-19037

Dear Sir:

In response to your request, we have completed the soil borings and laboratory tests for the above referenced project. This project included drilling six soil borings, laboratory tests, and a pavement design for New Era Road northwest of Carbondale, Illinois.

On March 14, 2019, we drilled six soil borings on New Era Road between Glenn and Airport Roads. The approximate boring locations are indicated on the enclosed Boring Location Diagram.

The auger was advanced through the existing pavement and withdrawn, measuring the existing pavement thickness. The dynamic cone penetrometer was then placed into the bore hole and DCP tests performed to three feet in depth. A split barrel sampler was then advanced to five feet deep. A standard penetration test was performed in conjunction with the split barrel sampling. Upon completion, the borings were patched with concrete mix.

In our laboratory, the soil samples were subjected to visual classifications and moisture content determinations. Cohesive soil samples were subjected to unconfined compressive strength tests. A standard Proctor and Illinois Bearing Ratio test was then performed on the predominant soil type encountered in the soil borings. Typical subsoils were subjected to Atterberg limits tests.

New Era Road Pavement Design March 25, 2019 Page 2

Pavement thicknesses encountered in the borings are as follows:

| Boring No. | A-3 Surface (in.) | Crushed Stone (in.) | | |
|------------|-------------------|---------------------|--|--|
| #1 | 2.0 | 9.5 | | |
| #2 | 2.0 | 10.0 | | |
| #3 | 2.0 | 16.0 | | |
| #4 | 2.0 | 9.0 | | |
| #5 | 2.0 | 13.5 | | |
| #6 | 3.0 | 11.0 | | |

It should be noted that the oil and chip (A-3) surface encountered in the borings is considered to have the same structural strength as the crushed limestone.

Below the existing paving materials lies brown to gray sandy clay, silt, sand and silty clay that extends to about five feet in depth.

The silty clay and sandy silt soils have unconfined compressive strengths ranging from 0.9 to 2.2 tons per square foot, averaging about 1.3 tons per square foot. Standard penetration test values vary from 1 to 17 blows per foot, averaging 7 bpf. Moisture contents vary from 16 to 28 percent. The silt and clay soils have liquid limits of 23 to 33 with plasticity indices of 6 to 12.

The sandy soils have standard penetration test values of 0 to 22 blows per foot, averaging 9 bpf. Moisture contents vary from 8 to 37 percent, averaging about 17 bpf. When subjected to a standard Proctor test, these soils have a maximum dry unit weight of 127 pounds per cubic foot at an optimum moisture content of 9.6 percent. These soils have an IBR value of 5.4 percent.

The DCP tests outside of Boring #3 indicate a stable subgrade. However, Boring #3 encountered relatively low DCP values from about 18 to 36 inches in depth.

Ground water was encountered at about three feet in depth in Borings #1 and #6. The remaining borings did not encounter water during or upon completion of drilling operations.

It is understood this project is to consist of paving of the existing street with bituminous concrete (asphalt). The recommended pavement design is based upon IDOT Bureau of Local Roads pavement design, and the following design data:

| Average Daily Traffic: | 1500 |
|------------------------|------|
| Passenger Cars: | 1395 |
| Single Unit Trucks: | 75 |
| Multiple Unit Trucks: | 30 |

New Era Road Pavement Design March 25, 2019 Page 3

Bituminous Concrete Design:

Street Classification: Class III
Temperature: 82 deg.
Asphalt PG-64-22
Traffic Factor: 0.20

Crushed Stone Basecourse*: 11.0"*
Bituminous Concrete Binder: 3.0"
Bituminous Concrete Surface: 1.5"

* - The existing crushed stone and oil and chip surface may be used as basecourse for this pavement.

The Illinois Department of Transportation "Standard Specifications for Road and Bridge Construction" adopted on January 1, 2016 indicates the materials to be used in the following sections:

Bituminous Concrete Surface and Binder Section 406 (Pages 189-202)

Enclosed are the Boring Location Diagram, Boring Logs, DCP Tests, and Laboratory Test Data Sheets. If you have any questions, please feel free to contact me at your convenience.

Sincerely,

HOLCOMB EQUIDATION ENGINEERING CO.

Scott G. Holcomb, E.I.

Timothy J. Hølcomb, P.E.





Project:

New Era Road Carbondale, Illinois

City of Carbondale Carbondale, Illinois

Boring Location Diagram

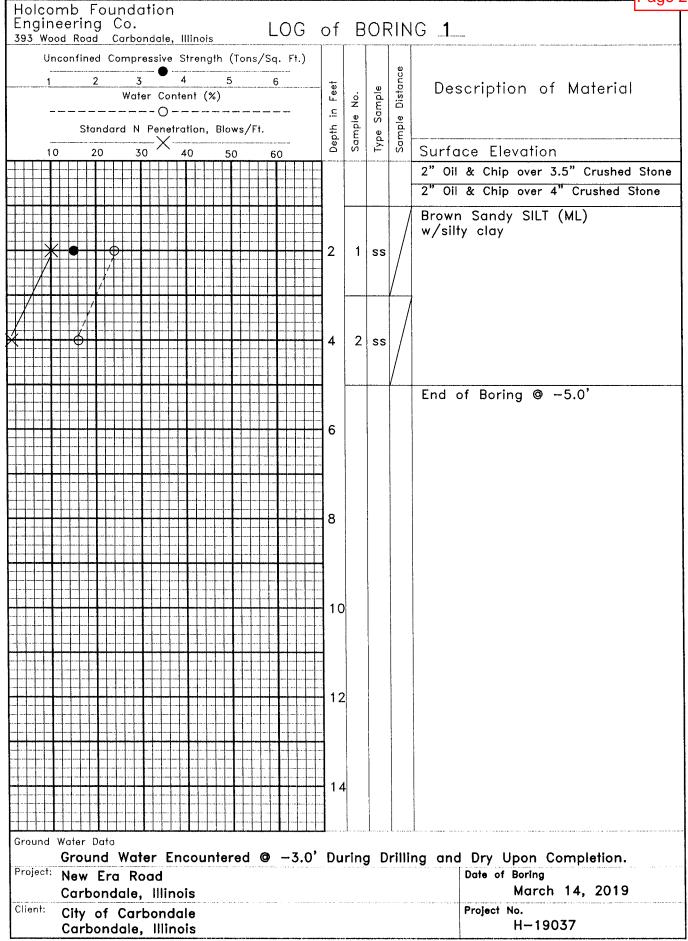


Project No. H-19037

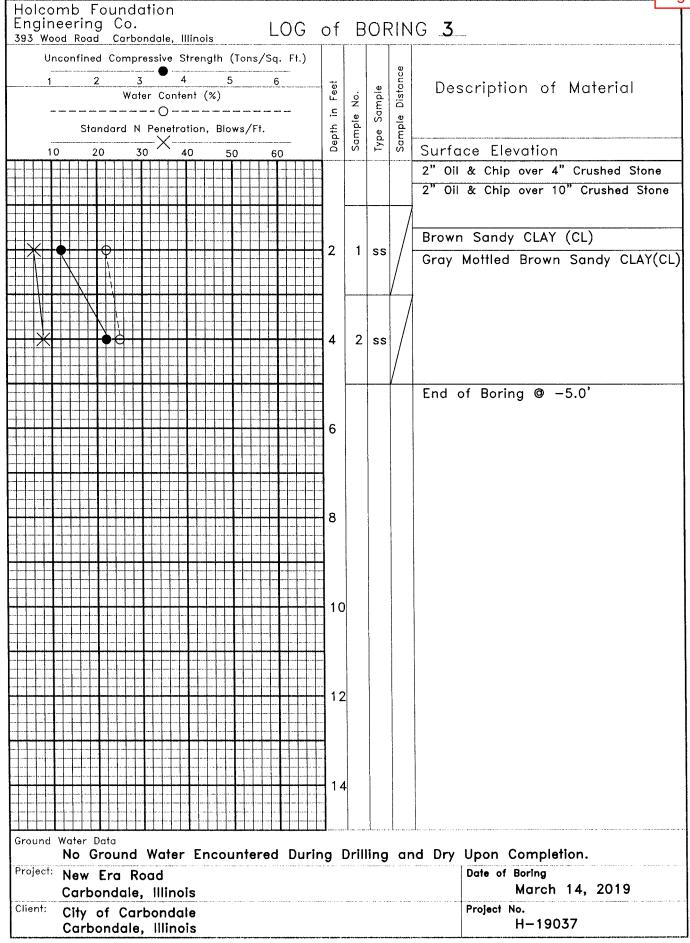
Not to Scale

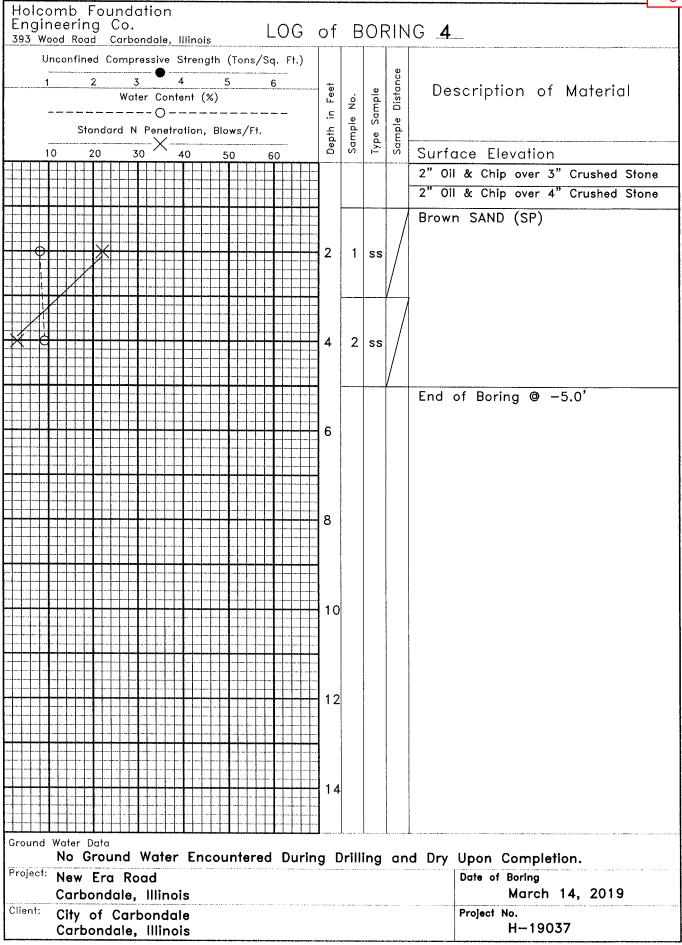
March 14, 2019

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| Holcomb Foundation Engineering Co. 393 Wood Road Carbondale, Illinois LOG | of | В | OF | RIN | G 2 | | |
|---------------------------------------------------------------------------|----------------------|--------|--------|---------------------------|-------------------------------------|--|--|
| Unconfined Compressive Strength (Tons/Sq. Ft.) | | | | | | | |
| 1 2 3 4 5 6 | - | | | nce | | | |
| Water Content (%) | Feet | No. | Sample | Distance | Description of Material | | |
| Standard N Penetration, Blows/Ft. | Depth in | Sample | Sar | p p | | | |
| 10 20 30 40 50 60 | Dept | Sam | Type | Sample | Surface Elevation | | |
| | 1 | | | | 2" Oil & Chip over 4" Crushed Stone | | |
| | _ | | , | | 2" Oil & Chip over 4" Crushed Stone | | |
| | _ | | | / | Brown SAND (SP) w/sandy clay | | |
| | | | | / | , , , , , | | |
| | 2 | 1 | SS | / | | | |
| | 1 | | | / | | | |
| | 1 | | | | | | |
| | | | | | | | |
| * | 4 | 2 | SS | / | | | |
| | | | | / | | | |
| | | | | | End of Boring @ -5.0' | | |
| | _ | | | | | | |
| | 6 | | | | | | |
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| | 14 | ŀ | | | | | |
| | | | | | | | |
| Ground Water Data No Ground Water Encountered Duri | u na I | Drill | ina | an | nd Dry Upon Completion | | |
| Project: New Era Road | · · · · · | | 9 | | Date of Boring | | |
| Carbondale, Illinois | | | | | March 14, 2019 | | |
| Client: City of Carbondale | l city of carbonadie | | | | | | |
| Carbondale, Illinois | | | | | H-19037 | | |





Page 24

| Holcomb Foundation Engineering Co. 393 Wood Road Carbondale, Illinois LOG of BORING 5 | | | | | | | | |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------|-------------|----------|---------------------------------------|--|--|--|
| Unconfined Compressive Strength (Tons/Sq. Ft.) | | | | | | | | |
| 1 2 3 4 5 6 Water Content (%) | Feet | No. | mple | Distance | Description of Material | | | |
| Standard N Penetration, Blows/Ft. | Depth in | Sample No. | Type Sample | Sample | | | | |
| 10 20 30 40 50 60 | o O | Sa | <u>~</u> | Sa | Surface Elevation | | | |
| | _ | | | | 2" Oil & Chip over 3.5" Crushed Stone | | | |
| | | | | | 2" Oil & Chip over 8" Crushed Stone | | | |
| | 1 | | | / | Gray SILT (ML) | | | |
| | 2 | 1 | SS | | () | | | |
| |] _ | | | | | | | |
| | 1 | | | / | | | | |
| | | | | / | Gray Mottled Brown Silty CLAY (CL) | | | |
| | 4 | 2 | ss | / | | | | |
| | | | | / | | | | |
| | 1 | | | <u> </u> | Find of Doming @ 50' | | | |
| | | | | | End of Boring @ -5.0' | | | |
| | 6 | | | | | | | |
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| | 1. | 4 | | | | | | |
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| Ground Water Data | | | 1 | .L | | | | |
| | No Ground Water Encountered During Drilling and Dry Upon Completion. | | | | | | | |
| Project: New Era Road Carbondale, Illinois | | | | | Date of Boring March 14, 2019 | | | |
| Client: City of Carbondale | | | | | Project No. | | | |
| Carbondale, Illinois | ~~~ | | | | H-19037 | | | |

Holcomb Foundation Engineering Co. 393 Wood Road Carbondale, Illinois LOG of BORING 6_ Unconfined Compressive Strength (Tons/Sq. Ft.) Distance Description of Material Sample Water Content (%) _____ .⊆ Standard N Penetration, Blows/Ft. $-\times$ Surface Elevation 3" Oil & Chip over 3" Crushed Stone 3" Oil & Chip over 5" Crushed Stone Brown SAND (SP) w/sandy clay 1 ss Brown Sandy CLAY (CL) 2 ss End of Boring \bigcirc -5.0' 10 12 14 Ground Water Data

Holcomb Foundation Engineering Company

Atterberg Limits Worksheet

H19037

Project

| Project No | New Era Road | oad | | | | | | |
|------------|--------------|---------|-------|---------|---------|-------|----------|----|
| | | | | | | | Adjusted | |
| Boring | Sample | Wet Wt. | Pan | Dry Wt. | Mc. (%) | Blows | LL | చ |
| Boring #1 | 1.0-2.5 | 61.31 | 37.05 | 56.70 | 23.46 | 22.00 | 23 | 17 |
| | | 34.70 | 26.76 | 33.54 | 17.11 | | | |
| Boring #5 | 1.0-5.0' | 61.45 | 33.16 | 54.40 | 33.19 | 22.0 | 33 | 20 |
| | | 41.54 | 33.26 | 40 14 | 20.35 | | | |

12

<u>a</u> 9



Dynamic Cone Penetration Test

| Date: | 3-14-2019 | County: | Jackson |
|------------------------|-------------------------|---------------|----------------------|
| Weather: | | Section: | |
| Inspector: | DR/DP | Route: | |
| Company (Consultants): | Holcomb Foundation Eng. | District: | |
| Design No.: | | Contract No.: | |
| Sheet No.: | | Job No.: | |
| Contractor: | | Project: | New Era Road H-19037 |

| Test Location ^a and Remarks ^b | Initial Depth |] | ⊠ Subgrade | | ☐ Foundati | on | | |
|-----------------------------------------------------|------------------|--------------------|------------|-----------------------------------------|------------|-------|-------|-------|
| B1 | 0 | Depth ^c | 0-6 | 6-12 | 12-18 | 18-24 | 24-30 | 30-36 |
| | | Blows | | | 13 | 29 | 10 | 5 |
| | | Rate d | | | 0.5 | <0.5 | 0.6 | 1.2 |
| | | IBV | | | 17 | >17 | 13 | 5.5 |
| | | Qu | | | 5.4 | >5.4 | 4.2 | 1.8 |
| B2 | 0 | Depth | 0-6 | 6-12 | 12-18 | 18-24 | 24-30 | 30-36 |
| | | Blows | | | 12 | 13 | 16 | 11 |
| | | Rate | | | 0.5 | 0.5 | <0.5 | 0.5 |
| | | IBV | | 747774 | 17 | 17 | >17 | 17 |
| | | Qu | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 5.4 | 5.4 | >5.4 | 5.4 |
| В3 | 0 | Depth | 0-6 | 6-12 | 12-18 | 18-24 | 24-30 | 30-36 |
| | | Blows | | | | 1 | 4 | 5 |
| | | Rate | | | | >4.6 | 1.5 | 1.2 |
| | | IBV | | | | <1 | 4 | 5.5 |
| | | Qu | | | | <0.3 | 1.3 | 1.8 |
| B4 | 0 | Depth | 0-6 | 6-12 | 12-18 | 18-24 | 24-30 | 30-36 |
| | | Blows | | | 25 | 40 | 33 | 24 |
| | | Rate | | | | <0.5 | <0.5 | <0.5 |
| | | IBV | | | | >17 | >17 | >17 |
| | | Qu | | | | >5.4 | >5.4 | >5.4 |
| B5 | 0 | Depth | 0-6 | 6-12 | 12-18 | 18-24 | 24-30 | 30-36 |
| | | Blows | | | | 11 | 35 | 21 |
| | | Rate | | | | 0.5 | <0.5 | <0.5 |
| | | IBV | | | | 17 | >17 | >17 |
| | | Qu | | | | 5.4 | >5.4 | >5.4 |

^a Indicate station and offset.

Comments:

| Rate | IBV | Qu* | Rate | IBV | Qu* |
|------|-----|-----|------|-----|------|
| 0.5 | 17 | 5.4 | 1.3 | 5 | 1.6 |
| 0.6 | 13 | 4.2 | 1.5 | 4 | 1.3 |
| 0.7 | 11 | 3.5 | 2.0 | 3 | 1.0 |
| 0.8 | 9 | 2.9 | 2.6 | 2 | 0.6 |
| 0.9 | 8 | 2.6 | 3.0 | 1.7 | 0.5 |
| 1.0 | 7 | 2.2 | 3.3 | 1.5 | 0.5 |
| 1.1 | 6 | 1.9 | 4.6 | 1 | 0.3 |
| 1.2 | 5.5 | 1.8 | >4.6 | <1 | <0.3 |

^{*}Q_u value calculated from IBV whole number.

 $IBV = 10^{0.84} - 1.26 \times LOG(Rate)$

 $Q_u(tsf) = 0.32 \times IBV$

^b Include soil type, moisture, rutting, or cut/fill information as applicable.

^c Depth is cumulative in inches.

^d Rate is inches of penetration per blow.



Dynamic Cone Penetration Test

| Date: | 3-14-2019 | County: | Jackson |
|------------------------|-------------------------|---------------|----------------------|
| Weather: | | Section: | |
| Inspector: | DR/DP | Route: | |
| Company (Consultants): | Holcomb Foundation Eng. | District: | |
| Design No.: | | Contract No.: | |
| Sheet No.: | | Job No.: | |
| Contractor: | | Project: | New Era Road H-19037 |

| Test Location ^a and Remarks ^b | Initial Depth | | ⊠ Subgrade | | ☐ Foundati | on | | |
|-----------------------------------------------------|------------------|-------------------|------------|------|------------|-------|-------|-------|
| B6 | 0 | Depth ° | 0-6 | 6-12 | 12-18 | 18-24 | 24-30 | 30-36 |
| | | Blows | | | 21 | 19 | 8 | 6 |
| | | Rate ^d | | | <0.5 | <0.5 | 0.8 | 1.0 |
| | | IBV | | | >17 | >17 | 9 | 7 |
| | | Qu | | | >5.4 | >5.4 | 2.9 | 2.2 |
| | | Depth | 0-6 | 6-12 | 12-18 | 18-24 | 24-30 | 30-36 |
| | Ì | Blows | | | | | | |
| | | Rate | | | | | | |
| | | IBV | | | | | | |
| 77717 | | Qu | | | | | | |
| | | Depth | 0-6 | 6-12 | 12-18 | 18-24 | 24-30 | 30-36 |
| | | Blows | | | | | | |
| | | Rate | | | | | | |
| | | IBV | | | | | | |
| | | Qu | | | | | | |
| | | Depth | 0-6 | 6-12 | 12-18 | 18-24 | 24-30 | 30-36 |
| | | Blows | | | | | | |
| | | Rate | | | | | | |
| | | IBV | | | | | | |
| | | Qu | | | | | | |
| | | Depth | 0-6 | 6-12 | 12-18 | 18-24 | 24-30 | 30-36 |
| | | Blows | | | | | | |
| | | Rate | | | | | | |
| | | IBV | | | | | | |
| | | Qu | | | | | | |

^a Indicate station and offset.

Comments:

| Rate | IBV | Qu* | Rate | IBV | Qu* |
|------|-----|-----|------|-----|------|
| 0.5 | 17 | 5.4 | 1.3 | 5 | 1.6 |
| 0.6 | 13 | 4.2 | 1.5 | 4 | 1.3 |
| 0.7 | 11 | 3.5 | 2.0 | 3 | 1.0 |
| 0.8 | 9 | 2.9 | 2.6 | 2 | 0.6 |
| 0.9 | 8 | 2.6 | 3.0 | 1.7 | 0.5 |
| 1.0 | 7 | 2.2 | 3.3 | 1.5 | 0.5 |
| 1.1 | 6 | 1.9 | 4.6 | 1 | 0.3 |
| 1.2 | 5.5 | 1.8 | >4.6 | <1 | <0.3 |

^{*}Qu value calculated from IBV whole number.

 $1BV = 10^{0.84 - 1.26 \times LOG(Rate)}$

 $Q_u(tsf) = 0.32 \times IBV$

^b Include soil type, moisture, rutting, or cut/fill information as applicable.

^c Depth is cumulative in inches.

d Rate is inches of penetration per blow.

Holcomb Foundation Engineering

Moisture - Density Relationship

Project

Date:

New Era Road

Location: B-1,2,4, & 6

Carbondale, Illinois

Depth: 1-51

Project No.: H-19037

Proctor Test Results

Soil Classification:

Brown Clayey Sand

Maximum Dry Density (PCF)
Optimum Moisture Content (%)

127.0 9.6

Test Data ASTM D-698 (standard)

3/18/19

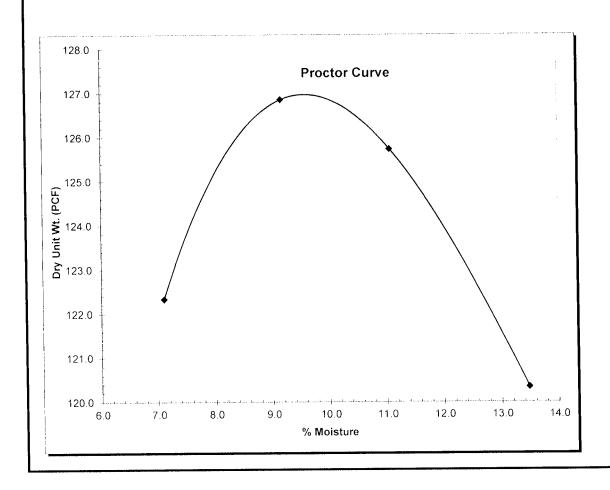
Moisture Content (%) 13.5 11.1

> 9.2 7.1

Dry Unit Wt. (PCF) 120.3 125.7

126.9

122.3



Holcomb Foundation Engineering Co. Illinois Bearing Ratio Test

Project:

New Era Road

Location:

B-1,2,4 & 6

Carbondale, Illinois

1-5" Depth:

Project No.:

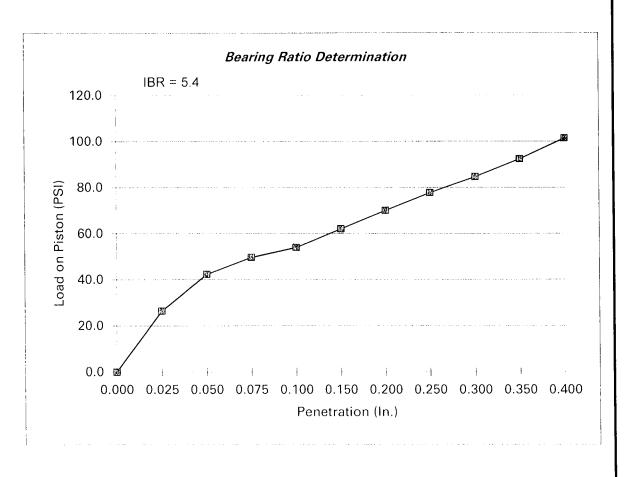
H-19037

Date:

3/25/2019

Test Data

| Proctor Results | | IBR Test | | |
|------------------------------|-------------|-------------|--------|-------|
| Soil Classification | Clayey SAND | Penetration | Pounds | PSI |
| Maximum Dry Density(PCF) | 127.0 | 0.000 | 0.0 | 0.0 |
| Optimum Moisture Content (%) | 9.6 | 0.025 | 79.0 | 26.3 |
| | | 0.050 | 127.0 | 42.3 |
| Before Test | | 0.075 | 149.0 | 49.7 |
| Molded Weight (PCF) | 118.6 | 0.100 | 162.0 | 54.0 |
| Moisture Content (%) | 8.7 | 0.150 | 186.0 | 62.0 |
| Percent Compaction | 93.4 | 0.200 | 210.0 | 70.0 |
| | | 0.250 | 233.0 | 77.7 |
| After Test | | 0.300 | 254.0 | 84.7 |
| Moisture Content (%) | 12.1 | 0.350 | 277.0 | 92.3 |
| Swell (%) | 0.5 | 0.400 | 304.0 | 101.3 |



GENERAL NOTES

SAMPLE INDENTIFICATION

The Unified Classification System is used to indentify the soil unless othwerwise noted.

RELATIVE DENSITY & CONSISTENCY CLASSIFICATION

| TERM (NON-COHESIVE SOILS) | BLOWS PER FOOT |
|---------------------------|-----------------------|
| Very Loose | 0-4 |
| Loose | 5-10 |
| Firm | 11-30 |
| Dense | 31-50 |
| Very Dense | Over 50 |
| TERM (COHESIVE SOILS) | QU (tsf) |
| Very Soft | 0.00- 0.25 |
| Soft | 0.25-0.50 |
| Firm | 0.50-1.00 |
| Stiff | 1.00-2.00 |
| Very Stiff | 2.00-4.00 |
| Hard | 4.00+ |

DRILLING & SAMPLING SYMBOLS

ss: Split Spoon- 1 3/8" I.D., 2" O.D. st: Shelby Tube- 2.80" I.D., 3" O.D.

au: Auger Samples

cs: Continuous Sampling 2.0" I.D

SOIL PROPERTY SYMBOLS

Unconfined Compressive Strength, Qu (tsf)

Penetrometer Value, (tsf)

Plastic Limit (%)

O Water Content (%)

Liquid Limit (%)

X Standard "N" Penetration: Blows per foot of a 140 pound hammer

falling 30 inches on a 2" O.D. Split Spoon

PARTICLE SIZE

Boulders8in +Medium Sand0.6mm to 0.2mmCobbles8in to 3inFine Sand0.2mm to 0.74 mmGravel3in. to 5mmSilt0.074mm to 0.0005mmCoarse Sand5mm to 0.6mmClayLess Than 0.005mm

UNIFIED SOIL CLASSIFICATIONS

MAJOR DIVISIONS

SYMBOL

TYPICAL DESCRIPTION

| | | CLEAN GRAVELS | | Well graded gravels, gravel-sand mixtures |
|-----------------------------------|------------------------------------|------------------|-------------------------------------------------------|---------------------------------------------------------|
| COARSE | | | GP | Poorly graded gravels, gravel-sand mixtures |
| GRAINED SOILS | | | GM | Silty gravels, gravels-sand silt mixtures |
| | | CLEAN | GC | Clayey gravels, gravel-sand clay mixtures |
| | | SANDS | sw | Well-graded sands, gravelly sands |
| , | | SANDS WITH | | Poorly graded sands, gravelly sands |
| | | FINES | SM | Silty sands, sand-silt mixtures |
| | | | SC | Clayey sands, clay-sand mixtures |
| SILTS AND CLAYS LOW PLASTICITY | | ML. | Inoganic silts of clayey silts with slight plasticity | |
| FINE GRAINED SOILS | ED | | CL | Inorganic clays of low to medium plasticity |
| | SILTS AND CLAYS HIGH PLASTICITY | | OL | Organic silts and organic silty clays of low plasticity |
| | | | МН | Inorganic clays of high plasticity |
| | | | СН | Organic clays of high plasticity |
| HIGHLY ORGANIC SOILS | | ОН | Organic clays of medium to high plasticity | |
| | | РТ | Peat, humus, swamp soils with high organic contents | |



Storm Water Pollution Prevention Plan



| Pouts | Made d Davida | Ocalian Nember | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| FAU 9715 | Marked Route New Era Road | Section Number 18-00138-00-FP | | |
| | | | | |
| Project Number | County | Contract Number | | |
| 4WRW(872) | Jackson | 99689 | | |
| This plan has been prepared to comply ILR10 (Permit ILR10), issued by the Illin activities. | with the provisions of the National Polluta ois Environmental Protection Agency (IE | ant Discharge Elimination System (NPDES) Permit No. EPA) for storm water discharges from construction site | | |
| system designed to assure that qualified the person or persons who manage the | I personnel properly gathered and evalual system, or those persons directly resporte and belief, true, accurate and complete. | red under my direction or supervision in accordance with a ated the information submitted. Based on my inquiry of a nsible for gathering the information, the information e. I am aware that there are significant penalties for r knowing violations. | | |
| Signature | | Date | | |
| Mohing Mand | | 3/28/23 | | |
| Print Name | Title | Agency | | |
| Robert Hardin, P.E. | Director of Operations | City of Carbondale | | |
| The proposed project is located a | ocation; include latitude and longitude, se along FAU 9715 (New Era Road) imately Glenn Road on the south | in Jackson County, northwest of Carbondale, | | |
| Section 5 and 6, Township 9S., F | • | and Airport Road on the North. | | |
| Lat.: 37° 45' 46"N Long.: 89° 14 | l' 44.75"W | | | |
| | tion activity which is the subject of this pl lation, maintenance, removal of erosion | lan. Include the number of construction stages, drainage measures, and permanent stabilization: | | |
| The work includes removal of existing site features as shown on the plans and construction of new curb and gutter, roadside ditches, culverts, storm sewer system, placement of aggregate base course, placement of hot-mix asphalt pavement, placement of portland cement concrete pavement, Portland cement concrete drives, placement of aggregate shoulders, pavement striping, fencing, seeding, mulching, erosion control and various other work items necessary to complete the work as shown/described in the contract documents. | | | | |
| C. Provide the estimated duration of this | s project | | | |
| | imated to be approximatly 4-6 mo | onths. | | |
| D. The total area of the construction site | is estimated to be 2.85 | acres. | | |
| The total area of the site estimated to | be disturbed by excavation, grading or | other activities is 2.85 acres. | | |
| E. The following are weighted averages | | efore and after construction activities are completed; see | | |

C before construction = 0.51

E. The following are weighted averages of the runoff coefficient for this project before and after construction activities are completed; see Section 4-102 of the IDOT Drainage Manual:

C before construction = 0.51

C after construction = 0.57

F. List all soils found within project boundaries; include map unit name, slope information, and erosivity:

The USDA's Web Soil Survey was used to determine the soils within the project limits.

Sexton Silt Loam, 0 to 2 percent slopes

Geff Silt Loam, 0 to 2 percent slopes

Redbud Silt Loam, 2 to 5 percent slopes

The Soils listed above present a higher risk of erosion. This especially should be monitored once the vegetation is removed.

G. If wetlands were delineated for this project, provide an extent of wetland acreage at the site; see Phase I report:

No wetlands were delineated for this project. See attached U.S. Fish and Wildlife Service National Wetlands Inventory Map.

H. Provide a description of potentially erosive areas associated with this project:

All disturbed areas until vegetation has been established, riprap has been placed or the aggregate base course has been consructed over the roadway subgrade. Areas where grading for the roadside ditches will occur and along the back slopes blending back to existing grade will have a higher risk of erosion.

I. The following is a description of soil disturbing activities by stages, their locations, and their erosive factors (e.g., steepness of slopes, length of slopes, etc.):

Soil disturbing activities include the removal and replacement of the existing culverts, storm sewer installation, grading of the roadside ditches to accommodate the new typical roadway section. Longitudinal grades along the roadway range from 0.35% to 0.92% and longitudinal grades along the proposed ditches range from 0.50% to 3.48%.

J. See the erosion control plans and/or drainage plans for this contract for information regarding drainage patterns, approximate slopes anticipated before and after major grading activities, locations where vehicles enter or exit the site and controls to prevent offsite sediment tracking (to be added after contractor identifies locations), areas of soil disturbance, the location of major structural and non-structural controls identified in the plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands), and locations where storm water is discharged to surface water including wetlands.

K. Identify who owns the drainage system (municipality or agency) this project will drain into:

The City of Carbondale owns the storm sewer and roadside ditches this project will drain to.

L. The following is a list of General NPDES ILR40 permittees within whose reporting jurisdiction this project is located:

None

M. The following is a list of receiving water(s) and the ultimate receiving water(s) for this site. In addition, include receiving waters that are listed as Biologically Significant Streams by the Illinois Department of Natural Resources (IDNR). The location of the receiving waters can be found on the erosion and sediment control plans:

This project discharges to unnamed tributaries that discharge to Crab Orchard Creek to the Big Muddy River

N. Describe areas of the site that are to be protected or remain undisturbed. These areas may include steep slopes (i.e., 1:3 or steeper), highly erodible soils, streams, stream buffers, specimen trees, natural vegetation, nature preserves, etc. Include any commitments or requirements to protect adjacent wetlands.

For any storm water discharges from construction activities within 50-feet of Waters of the U.S. (except for activities for water-dependent structures authorized by a Section 404 permit, describe: a) How a 50-foot undisturbed natural buffer will be provided between the construction activity and the Waters of the U.S. or b) How additional erosion and sediment controls will be provided within that area.

No areas within the the approximate construction limits are required to remain undisturbed.

O. Per the Phase I document, the following sensitive environmental resources are associated with this project and may have the potential

| to be impacted by the proposed development. Further guidance on these resources is available in Section 41-4 of the BDE Manual. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IN accordance with the Fish and Wildlife Service, the Indiana Bat and Northern Long-eared Bat were determined to not likely be adversely affected. However, any trees 3" and larger in diameter at breast height shall not be cleared April 1 to September 30. |
| 303(d) Listed receiving waters for suspended solids, turbidity, or siltation. The name(s) of the listed water body, and identification of all pollutants causing impairment: |
| Provide a description of how erosion and sediment control practices will prevent a discharge of sediment resulting from a storm event equal to or greater than a twenty-five (25) year, twenty-four (24) hour rainfall event: |
| Provide a description of the location(s) of direct discharge from the project site to the 303(d) water body: |
| Provide a description of the location(s) of any dewatering discharges to the MS4 and/or water body: |
| Applicable Federal, Tribal, State, or Local Programs |
| Floodplain |
| Historic Preservation |
| Receiving waters with Total Maximum Daily Load (TMDL) for sediment, total suspended solids, turbidity or siltation TMDL (fill out this section if checked above) |
| The name(s) of the listed water body: |
| Provide a description of the erosion and sediment control strategy that will be incorporated into the site design that is consistent with the assumptions and requirements of the TMDL: |
| If a specific numeric waste load allocation has been established that would apply to the project's discharges, provide a description of the necessary steps to meet that allocation: |
| ☐ Threatened and Endangered Species/Illinois Natural Areas (INAI)/Nature Preserves |
| Other |
| ☐ Wetland |
| |

P. The following pollutants of concern will be associated with this construction project:

| | Page 36 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Antifreeze / Coolants | Solid Waste Debris |
| Concrete | Solvents Solvents |
| Concrete Curing Compounds | Waste water from cleaning construction equipments □ Other (Openits) |
| Concrete Truck Waste | Other (Specify) |
| Fertilizers / Pesticides | Other (Specify) |
| □ Paints □ Paints | Other (Specify) |
| Petroleum (gas, diesel, oil, kerosene, hydraulic oil / fluids) | Other (Specify) |
| Soil Sediment Soi | Other (Specify) |
| II. Controls: | |
| I.C above and for all use areas, borrow sites, and waste sites. For implementation as indicated. The Contractor shall provide to the R indicated. The Contractor, and subcontractors, will notify the Residundifications to keep construction activities compliant with the Person forms which are attached to, and are a part of, this plan: | Resident Engineer a plan for the implementation of the measures dent Engineer of any proposed changes, maintenance, or mit ILR10. Each such Contractor has signed the required certification |
| A. Erosion and Sediment Controls: At a minimum, controls must b | e coordinated, installed and maintained to: |
| Minimize the amount of soil exposed during of Minimize the disturbance of steep slopes; Maintain natural buffers around surface water and maximize storm water infiltration, unless infeasible, p. | rs, direct storm water to vegetated areas to increase sediment removal sible; |
| seeding, mulching, geotextiles, sodding, vegetative buffer strips, paperopriate measures. Except as provided below in II.B.1 and II.E construction activities have temporarily or permanently ceased, but | ensure that existing vegetation is preserved where attainable and ices may include but are not limited to: temporary seeding, permanent protection of trees, preservation of mature vegetation, and other |
| Where the initiation of stabilization measures is precluded by spracticable. | snow cover, stabilization measures shall be initiated as soon as |
| On areas where construction activity has temporarily ceased a method can be used. | and will resume after fourteen (14) days, a temporary stabilization |
| The following stabilization practices will be used for this project | xt: |
| | Temporary Turf (Seeding, Class 7) |
| ☐ Geotextiles | ☐ Temporary Mulching |
| ☐ Permanent Seeding | ☐ Vegetated Buffer Strips |
| ☐ Preservation of Mature Seeding | Other (Specify) |

Describe how the stabilization practices listed above will be utilized during construction:

Protection of Trees

Sodding

Temporary erosion control seeding will be placed in disturbed areas while construction activities are in progress.

Other (Specify)

Other (Specify)

Other (Specify)

Describe how the stabilization practices listed above will be utilized after construction activities have been completed:

Once all earth disturbing activities are completed, permanent seeding with mulch or erosion control blanket shall be placed.

Page 37

| subsurface drains, pipe slope drains, level spreaders, storm drain | off and the discharge of pollutants from exposed areas of the site. on barrier, earth dikes, drainage swales, sediment traps, ditch checks, |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Aggregate Ditch | Stabilized Construction Exits |
| Concrete Revetment Mats | Stabilized Trench Flow |
| □ Dust Suppression | ☐ Slope Mattress |
| Dewatering Filtering | ☐ Slope Walls |
| Gabions | ☐ Temporary Ditch Check |
| ☐ In-Stream or Wetland Work | ☐ Temporary Pipe Slope Drain |
| Level Spreaders | ☐ Temporary Sediment Basin |
| Paved Ditch | ☐ Temporary Stream Crossing |
| Permanent Check Dams | ☐ Turf Reinforcement Mats |
| Perimeter Erosion Barrier | Other (Specify) |
| Permanent Sediment Basin | Other (Specify) |
| Retaining Walls | Other (Specify) |
| Riprap | Other (Specify) |
| Rock Outlet Protection | Other (Specify) |
| Sediment Trap | Other (Specify) |
| Storm Drain Inlet Protection | Other (Specify) |
| intercept waterborne sediment and protect off-site areas areas. Temporary ditch checks will be constructed in the proposed collect sediment. | osed ditches to slow the velocity of the storm water and |
| inlet and pipe protection will be installed at the upstrear inlet. This will be placed to catch sediment and prevent | n end of the proposed culverts, storm pipes and at each it from entering the storm sewers and culverts. |
| The Contractor will be required to install a stabilized entexiting the construction site. The locations shall be coor Engineer. | <u>-</u> |
| These erosion and sediment control measures shall be Specificaitons. | installed and maintained according to IDOT Standard |
| Describe how the structural practices listed above will be utilized aft | er construction activities have been completed: |
| The above listed structural practices will remain in place project site. | · |
| D. Treatment Chemicals Will polymer flocculants or treatment chemicals be utilized on this pr | oject: ☐ Yes ☑ No |
| If yes above, identify where and how polymer flocculants or treatme | nt chemicals will be utilized on this project. |
| , and the property of the state | p.ojeca |
| | |

- E. **Permanent (i.e., Post-Construction) Storm Water Management Controls:** Provided below is a description of measures that will be installed during the construction process to control volume and pollutants in storm water discharges that will occur after construction operations have been completed. The installation of these devices may be subject to Section 404 of the Clean Water Act.
- 1. Such practices may include but are not limited to: storm water detention structures (including wet ponds), storm water retention structures, flow attenuation by use of open vegetated swales and natural depressions, infiltration of runoff on site, and sequential systems (which combine several practices).
 - The practices selected for implementation were determined based on the technical guidance in Chapter 41 (Construction Site Storm Water Pollution Control) of the IDOT BDE Manual. If practices other than those discussed in Chapter 41 are selected for implementation or if practices are applied to situations different from those covered in Chapter 41, the technical basis for such decisions will be explained below.
- 2. Velocity dissipation devices will be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g., maintenance of hydrologic conditions such as the hydroperiod and hydrodynamics present prior to the initiation of construction activities).

Description of permanent storm water management controls:

No permanent storm water controls are warranted on this project. All storm water discharges will be directed to vegetated ditches and swales.

F. Approved State or Local Laws: The management practices, controls and provisions contained in this plan will be in accordance with IDOT specifications, which are at least as protective as the requirements contained in the IEPA's Illinois Urban Manual. Procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials shall be described or incorporated by reference in the space provided below. Requirements specified in sediment and erosion site plans, site permits, storm water management site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of an NOI, to be authorized to discharge under the Permit ILR10 incorporated by reference and are enforceable under this permit even if they are not specifically included in the plan.

Description of procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials:

No additional requirements or procedures other than what is included above.

- G. **Contractor Required Submittals:** Prior to conducting any professional services at the site covered by this plan, the Contractor and each subcontractor responsible for compliance with the permit shall submit to the Resident Engineer a Contractor Certification Statement, BDE 2342A.
- The Contractor shall provide a construction schedule containing an adequate level of detail to show major activities with implementation of pollution prevention BMPs, including the following items:
 - · Approximate duration of the project, including each stage of the project
 - Rainy season, dry season, and winter shutdown dates
 - Temporary stabilization measures to be employed by contract phases
 - Mobilization time-frame
 - Mass clearing and grubbing/roadside clearing dates
 - Deployment of Erosion Control Practices
 - Deployment of Sediment Control Practices (including stabilized cons)
 - Deployment of Construction Site Management Practices (including concrete washout facilities, chemical storage, refueling locations, etc.)
 - Paving, saw-cutting, and any other pavement related operations
 - Major planned stockpiling operation
 - Time frame for other significant long-term operations or activities that may plan non-storm water discharges as dewatering, grinding, etc
 - · Permanent stabilization activities for each area of the project

- 2. During the pre-construction meeting, the Contractor and each subcontractor shall provide, as an attachment to their signed Contractor Certification Statement, a discussion of how they will comply with the requirements of the permit in regard to the following items and provide a graphical representation showing location and type of BMPs to be used when applicable:
 - Temporary Ditch Checks Identify what type and the source of Temporary Ditch Checks that will be installed as part of the project. The installation details will then be included with the SWPPP.
 - · Vehicle Entrances and Exits Identify type and location of stabilized construction entrances and exits to be used and how they will be maintained.
 - · Material Delivery, Storage and Use Discuss where and how materials including chemicals, concrete curing compounds, petroleum products, etc. will be stored for this project.
 - Stockpile Management Identify the location of both on-site and off-site stockpiles. Discuss what BMPs will be used to prevent pollution of storm water from stockpiles.
 - · Waste Disposal Discuss methods of waste disposal that will be used for this project.
 - Spill Prevention and Control Discuss steps that will be taken in the event of a material spill (chemicals, concrete curing compounds, petroleum, etc.)
 - Concrete Residuals and Washout Wastes Discuss the location and type of concrete washout facilities to be used on this project and how they will be signed and maintained.
 - · Litter Management Discuss how litter will be maintained for this project (education of employees, number of dumpsters, frequency of dumpster pick-up, etc.).
 - · Vehicle and Equipment Fueling Identify equipment fueling locations for this project and what BMPs will be used to ensure containment and spill prevention.
 - Vehicle and Equipment Cleaning and Maintenance Identify where equipment cleaning and maintenance locations for this project and what BMPs will be used to ensure containment and spill prevention.
 - Dewatering Activities Identify the controls which will be used during dewatering operations to ensure sediments will not leave the construction site.
 - Polymer Flocculants and Treatment Chemicals Identify the use and dosage of treatment chemicals and provide the Resident Engineer with Material Safety Data Sheets. Describe procedures on how the chemicals will be used and identify who will be responsible for the use and application of these chemicals. The selected individual must be trained on the established procedures.
 - · Additional measures indicated in the plan.

III. Maintenance:

When requested by the Contractor, the Resident Engineer will provide general maintenance guides (e.g., IDOT Erosion and Sediment Control Field Guide) to the Contractor for the practices associated with this project. Describe how all items will be checked for structural integrity, sediment accumulation and functionality. Any damage or undermining shall be repaired immediately. Provide specifics on how repairs will be made. The following additional procedures will be used to maintain, in good and effective operating conditions, the vegetation, erosion and sediment control measures and other protective measures identified in this plan. It will be the Contractor's responsibility to attain maintenance guidelines for any manufactured BMPs which are to be installed and maintained per manufacture's specifications.

Contractor shall perform the following:

Inspect all exits/entrances for off-site vehicle tracking on a daily basis. If sediment is observed, contractor shall clean existing roads and maintain entrance/exits.

Inspect all control measures on a regular basis and following a 0.5" or greater rain event during the construction period.

Maintain erosion control measures in good working order or repair/replace if specified by the Engineer. Perform all repair/replacement within 24 hours of report.

Remove and dispose of sediment collected by the temporary ditch checks.

Remove and dispose of sediment collected by the inlet and pipe protection.

Remove and dispose of sediment collected by silt fence.

Inspect all features for sediment build up, tears, secure all material to posts and verify all posts are structurally sound and secure.

Inspect temporary seeding areas for proper vegetation and reseed as needed for proper coverage.



Contractor shall provide as many inspectors as needed to stay up on all the required inspections, maintenance and repair activities including completing all inspection and maintenance reports.

IV. Inspections:

Qualified personnel shall inspect disturbed areas of the construction site including Borrow, Waste, and Use Areas, which have not yet been finally stabilized, structural control measures, and locations where vehicles and equipment enter and exit the site using IDOT Storm Water Pollution Prevention Plan Erosion Control Inspection Report, BC 2259. Such inspections shall be conducted at least once every seven (7) calendar days and within twenty-four (24) hours of the end of a storm or by the end of the following business or work day that is 0.5 inch or greater or equivalent snowfall.

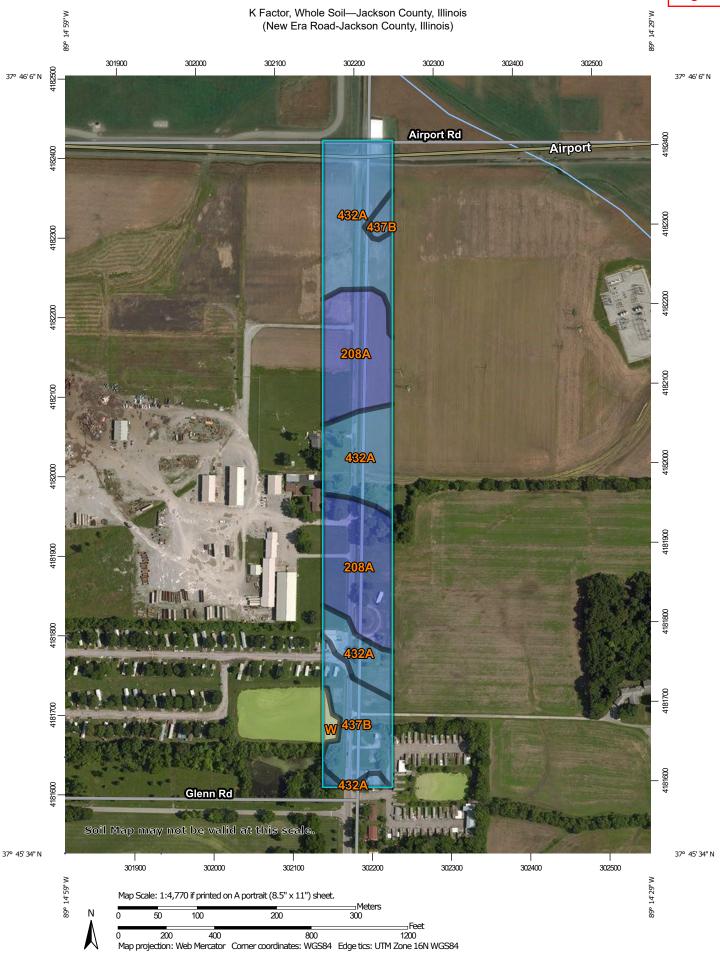
Inspections may be reduced to once per month when construction activities have ceased due to frozen conditions. Weekly inspections will recommence when construction activities are conducted, or if there is 0.5" or greater rain event, or a discharge due to snowmelt occurs.

If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer shall notify the appropriate IEPA Field Operations Section office by email at: epa.swnoncomp@illinois.gov, telephone or fax within twenty-four (24) hours of the incident. The Resident Engineer shall then complete and submit an "Incidence of Non-Compliance" (ION) report for the identified violation within five (5) days of the incident. The Resident Engineer shall use forms provided by IEPA and shall include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of non-compliance shall be signed by a responsible authority in accordance with Part VI. G of the Permit ILR10.

The Incidence of Non-Compliance shall be mailed to the following address: Illinois Environmental Protection Agency
Division of Water Pollution Control
Attn: Compliance Assurance Section
1021 North Grand East
Post Office Box 19276
Springfield, Illinois 62794-9276

V. Failure to Comply:

Failure to comply with any provisions of this Storm Water Pollution Prevention Plan will result in the implementation of a National Pollutant Discharge Elimination System/Erosion and Sediment Control Deficiency Deduction against the Contractor and/or penalties under the Permit ILR10 which could be passed on to the Contractor.



USDA



K Factor, Whole Soil

| Map unit symbol | Map unit name | Rating | Acres in AOI | Percent of AOI |
|-----------------------------|-----------------------------------------|--------|--------------|----------------|
| 208A | Sexton silt loam, 0 to 2 percent slopes | .49 | 6.8 | 38.2% |
| 432A | Geff silt loam, 0 to 2 percent slopes | .43 | 7.8 | 43.9% |
| 437B | Redbud silt loam, 2 to 5 percent slopes | .43 | 2.9 | 16.4% |
| W | Water | | 0.3 | 1.4% |
| Totals for Area of Interest | | 17.7 | 100.0% | |

Description

Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of six factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and saturated hydraulic conductivity (Ksat). Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

"Erosion factor Kw (whole soil)" indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

Factor K does not apply to organic horizons and is not reported for those layers.

Rating Options

Aggregation Method: Dominant Condition

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

Component Percent Cutoff: None Specified

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

Tie-break Rule: Higher

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

Layer Options (Horizon Aggregation Method): Surface Layer (Not applicable)

For an attribute of a soil horizon, a depth qualification must be specified. In most cases it is probably most appropriate to specify a fixed depth range, either in centimeters or inches. The Bottom Depth must be greater than the Top Depth, and the Top Depth can be greater than zero. The choice of "inches" or "centimeters" only applies to the depth of soil to be evaluated. It has no influence on the units of measure the data are presented in.

When "Surface Layer" is specified as the depth qualifier, only the surface layer or horizon is considered when deriving a value for a component, but keep in mind that the thickness of the surface layer varies from component to component.

When "All Layers" is specified as the depth qualifier, all layers recorded for a component are considered when deriving the value for that component.

Whenever more than one layer or horizon is considered when deriving a value for a component, and the attribute being aggregated is a numeric attribute, a weighted average value is returned, where the weighting factor is the layer or horizon thickness.



National Wetlands Inventory U.S. Fish and Wildlife Service

New Era Road Reconstruction



March 24, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Pond

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Lake

Riverine

Other

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State of Illinois Department of Transportation Bureau of Local Roads and Streets

SPECIAL PROVISION FOR INSURANCE

Effective: February 1, 2007 Revised: August 1, 2007

All references to Sections or Articles in this specification shall be construed to mean specific Section or Article of the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation.

The Contractor shall name the following entities as additional insured under the Contractor's general liability insurance policy in accordance with Article 107.27:

| City of Carbondale | | | |
|--------------------|--|--|--|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

The entities listed above and their officers, employees, and agents shall be indemnified and held harmless in accordance with Article <u>107.26</u>.

State of Illinois Department of Transportation Bureau of Local Roads and Streets

SPECIAL PROVISION FOR CONSTRUCTION AND MAINTENANCE SIGNS

Effective: January 1, 2004 Revised: June 1, 2007

All references to Sections or Articles in this specification shall be construed to mean a specific Section or Article of the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation.

701.14. Signs. Add the following paragraph to Article 701.14:

All warning signs shall have minimum dimensions of 1200 mm x 1200 mm (48" x 48") and have a black legend on a fluorescent orange reflectorized background, meeting, as a minimum, Type AP reflectivity requirements of Table 1091-2 in Article 1091.02.

State of Illinois DEPARTMENT OF TRANSPORTATION Bureau of Local Roads & Streets SPECIAL PROVISION

FOR

LOCAL QUALITY ASSURANCE/ QUALITY MANAGEMENT QC/QA Effective: January 1, 2022

Replace the first five paragraphs of Article 1030.06 of the Standard Specifications with the following:

"1030.06 Quality Management Program. The Quality Management Program (QMP) will be Quality Control / Quality Assurance (QC/QA) according to the following."

Delete Article 1030.06(d)(1) of the Standard Specifications.

Revise Article 1030.09(g)(3) of the Standard Specifications to read:

"(3) If core testing is the density verification method, the Contractor shall provide personnel and equipment to collect density verification cores for the Engineer. Core locations will be determined by the Engineer following the document "Hot-Mix Asphalt QC/QA Procedure for Determining Random Density Locations" at density verification intervals defined in Article 1030.09(b). After the Engineer identifies a density verification location and prior to opening to traffic, the Contractor shall cut a 4 in. (100 mm) diameter core. With the approval of the Engineer, the cores may be cut at a later time."

Revise Article 1030.09(h)(2) of the Standard Specifications to read:

"(2) After final rolling and prior to paving subsequent lifts, the Engineer will identify the random density verification test locations. Cores or nuclear density gauge testing will be used for density verification. The method used for density verification will be as selected below.

| | Density Verification Method | | |
|----------------------------------------|----------------------------------|--|--|
| | Cores | | |
| Nuclear Density Gauge (Correlated when | | | |
| | paving ≥ 3,000 tons per mixture) | | |

Density verification test locations will be determined according to the document "Hot-Mix Asphalt QC/QA Procedure for Determining Random Density Locations". The density testing interval for paving wider than or equal to 3 ft (1 m) will be 0.5 miles (800 m) for lift thicknesses of 3 in. (75 mm) or less and 0.2 miles (320 m) for lift thicknesses greater than 3 in. (75 mm). The density testing interval for paving less than 3 ft (1 m) wide will be 1 mile (1,600 m). If a day's paving will be less than the prescribed density testing interval, the length of the day's paving will be the interval for that day. The density testing interval for mixtures used for patching will be 50 patches with a minimum of one test per mixture per project.

If core testing is the density verification method, the Engineer will witness the Contractor coring, and secure and take possession of all density samples at the

density verification locations. The Engineer will test the cores collected by the Contractor for density according to Illinois Modified AASHTO T 166 or AASHTO T 275.

If nuclear density gauge testing is the density verification method, the Engineer will conduct nuclear density gauge tests. The Engineer will follow the density testing procedure detailed in the document "Illinois Modified ASTM D 2950, Standard Test Method for Density of Bituminous Concrete In-Place by Nuclear Method".

A density verification test will be the result of a single core or the average of the nuclear density tests at one location. The results of each density test must be within acceptable limits. The Engineer will promptly notify the Contractor of observed deficiencies."

Revise the seventh paragraph and all subsequent paragraphs in Section D. of the document "Hot-Mix Asphalt QC/QA Initial Daily Plant and Random Samples" to read:

"Mixtures shall be sampled from the truck at the plant by the Contractor following the same procedure used to collect QC mixture samples (Section A). This process will be witnessed by the Engineer who will take custody of the verification sample. Each sample bag with a verification mixture sample will be secured by the Engineer using a locking ID tag. Sample boxes containing the verification mixture sample will be sealed/taped by the Engineer using a security ID label."

BITUMINOUS MATERIALS COST ADJUSTMENTS (BDE)

Effective: November 2, 2006 Revised: August 1, 2017

<u>Description</u>. Bituminous material cost adjustments will be made to provide additional compensation to the Contractor, or credit to the Department, for fluctuations in the cost of bituminous materials when optioned by the Contractor. The bidder shall indicate with their bid whether or not this special provision will be part of the contract.

The adjustments shall apply to permanent and temporary hot-mix asphalt (HMA) mixtures, bituminous surface treatments (cover and seal coats), and preventative maintenance type surface treatments that are part of the original proposed construction, or added as extra work and paid for by agreed unit prices. The adjustments shall not apply to bituminous prime coats, tack coats, crack filling/sealing, joint filling/sealing, or extra work paid for at a lump sum price or by force account.

Method of Adjustment. Bituminous materials cost adjustments will be computed as follows.

 $CA = (BPI_P - BPI_L) \times (\%AC_V / 100) \times Q$

Where: CA = Cost Adjustment, \$.

BPI_P = Bituminous Price Index, as published by the Department for the month the work is performed, \$/ton (\$/metric ton).

BPI_L = Bituminous Price Index, as published by the Department for the month prior to the letting for work paid for at the contract price; or for the month the agreed unit price letter is submitted by the Contractor for extra work paid for by agreed unit price, \$/ton (\$/metric ton).

 $^{\circ}$ AC $_{V}$ = Percent of virgin Asphalt Cement in the Quantity being adjusted. For HMA mixtures, the $^{\circ}$ AC $_{V}$ will be determined from the adjusted job mix formula. For bituminous materials applied, a performance graded or cutback asphalt will be considered to be 100% AC $_{V}$ and undiluted emulsified asphalt will be considered to be 65% AC $_{V}$.

Q = Authorized construction Quantity, tons (metric tons) (see below).

For HMA mixtures measured in square yards: Q, tons = A x D x (G_{mb} x 46.8) / 2000. For HMA mixtures measured in square meters: Q, metric tons = A x D x (G_{mb} x 1) / 1000. When computing adjustments for full-depth HMA pavement, separate calculations will be made for the binder and surface courses to account for their different G_{mb} and % $AC_{V.}$

For bituminous materials measured in gallons: Q, tons = $V \times 8.33$ lb/gal x SG / 2000 For bituminous materials measured in liters: Q, metric tons = $V \times 1.0$ kg/L x SG / 1000

Where: A = Area of the HMA mixture, sq yd (sq m).

D = Depth of the HMA mixture, in. (mm).

 G_{mb} = Average bulk specific gravity of the mixture, from the approved mix design.

V = Volume of the bituminous material, gal (L).

SG = Specific Gravity of bituminous material as shown on the bill of lading.

<u>Basis of Payment</u>. Bituminous materials cost adjustments may be positive or negative but will only be made when there is a difference between the BPI_L and BPI_P in excess of five percent, as calculated by:

Percent Difference = $\{(BPI_L - BPI_P) \div BPI_L\} \times 100$

Bituminous materials cost adjustments will be calculated for each calendar month in which applicable bituminous material is placed; and will be paid or deducted when all other contract requirements for the work placed during the month are satisfied. The adjustments shall not apply during contract time subject to liquidated damages for completion of the entire contract.

80173

BLENDED FINELY DIVIDED MINERALS (BDE)

Effective: April 1, 2021

Revise the second paragraph of Article 1010.01 of the Standard Specifications to read:

"Different sources or types of finely divided minerals shall not be mixed or used alternately in the same item of construction, except as a blended finely divided mineral product according to Article 1010.06."

Add the following article to Section 1010 of the Standard Specifications:

"1010.06 Blended Finely Divided Minerals. Blended finely divided minerals shall be the product resulting from the blending or intergrinding of two or three finely divided minerals. Blended finely divided minerals shall be according to ASTM C 1697, except as follows.

- (a) Blending shall be accomplished by mechanically or pneumatically intermixing the constituent finely divided minerals into a uniform mixture that is then discharged into a silo for storage or tanker for transportation.
- (b) The blended finely divided mineral product will be classified according to its predominant constituent or the manufacturer's designation and shall meet the chemical requirements of its classification. The other finely divided mineral constituent(s) will not be required to conform to their individual standards."

80436

COMPENSABLE DELAY COSTS (BDE)

Effective: June 2, 2017 Revised: April 1, 2019

Revise Article 107.40(b) of the Standard Specifications to read:

- "(b) Compensation. Compensation will not be allowed for delays, inconveniences, or damages sustained by the Contractor from conflicts with facilities not meeting the above definition; or if a conflict with a utility in an unanticipated location does not cause a shutdown of the work or a documentable reduction in the rate of progress exceeding the limits set herein. The provisions of Article 104.03 notwithstanding, compensation for delays caused by a utility in an unanticipated location will be paid according to the provisions of this Article governing minor and major delays or reduced rate of production which are defined as follows.
 - (1) Minor Delay. A minor delay occurs when the work in conflict with the utility in an unanticipated location is completely stopped for more than two hours, but not to exceed two weeks.
 - (2) Major Delay. A major delay occurs when the work in conflict with the utility in an unanticipated location is completely stopped for more than two weeks.
 - (3) Reduced Rate of Production Delay. A reduced rate of production delay occurs when the rate of production on the work in conflict with the utility in an unanticipated location decreases by more than 25 percent and lasts longer than seven calendar days."

Revise Article 107.40(c) of the Standard Specifications to read:

- "(c) Payment. Payment for Minor, Major, and Reduced Rate of Production Delays will be made as follows.
 - (1) Minor Delay. Labor idled which cannot be used on other work will be paid for according to Article 109.04(b)(1) and (2) for the time between start of the delay and the minimum remaining hours in the work shift required by the prevailing practice in the area.
 - Equipment idled which cannot be used on other work, and which is authorized to standby on the project site by the Engineer, will be paid for according to Article 109.04(b)(4).
 - (2) Major Delay. Labor will be the same as for a minor delay.

Equipment will be the same as for a minor delay, except Contractor-owned equipment will be limited to two weeks plus the cost of move-out to either the

Contractor's yard or another job and the cost to re-mobilize, whichever is less. Rental equipment may be paid for longer than two weeks provided the Contractor presents adequate support to the Department (including lease agreement) to show retaining equipment on the job is the most economical course to follow and in the public interest.

(3) Reduced Rate of Production Delay. The Contractor will be compensated for the reduced productivity for labor and equipment time in excess of the 25 percent threshold for that portion of the delay in excess of seven calendar days. Determination of compensation will be in accordance with Article 104.02, except labor and material additives will not be permitted.

Payment for escalated material costs, escalated labor costs, extended project overhead, and extended traffic control will be determined according to Article 109.13."

Revise Article 108.04(b) of the Standard Specifications to read:

- "(b) No working day will be charged under the following conditions.
 - (1) When adverse weather prevents work on the controlling item.
 - (2) When job conditions due to recent weather prevent work on the controlling item.
 - (3) When conduct or lack of conduct by the Department or its consultants, representatives, officers, agents, or employees; delay by the Department in making the site available; or delay in furnishing any items required to be furnished to the Contractor by the Department prevents work on the controlling item.
 - (4) When delays caused by utility or railroad adjustments prevent work on the controlling item.
 - (5) When strikes, lock-outs, extraordinary delays in transportation, or inability to procure critical materials prevent work on the controlling item, as long as these delays are not due to any fault of the Contractor.
 - (6) When any condition over which the Contractor has no control prevents work on the controlling item."

Revise Article 109.09(f) of the Standard Specifications to read:

"(f) Basis of Payment. After resolution of a claim in favor of the Contractor, any adjustment in time required for the work will be made according to Section 108. Any adjustment in the costs to be paid will be made for direct labor, direct materials, direct equipment, direct jobsite overhead, direct offsite overhead, and other direct costs allowed by the resolution. Adjustments in costs will not be made for interest charges, loss of anticipated profit, undocumented loss of efficiency, home office overhead and unabsorbed overhead

other than as allowed by Article 109.13, lost opportunity, preparation of claim expenses and other consequential indirect costs regardless of method of calculation.

The above Basis of Payment is an essential element of the contract and the claim cost recovery of the Contractor shall be so limited."

Add the following to Section 109 of the Standard Specifications.

"109.13 Payment for Contract Delay. Compensation for escalated material costs, escalated labor costs, extended project overhead, and extended traffic control will be allowed when such costs result from a delay meeting the criteria in the following table.

| Contract Type | Cause of Delay | Length of Delay |
|--------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Working Days | Article 108.04(b)(3) or Article 108.04(b)(4) | No working days have been charged for two consecutive weeks. |
| Completion Date | Article 108.08(b)(1) or Article 108.08(b)(7) | The Contractor has been granted a minimum two week extension of contract time, according to Article 108.08. |

Payment for each of the various costs will be according to the following.

- (a) Escalated Material and/or Labor Costs. When the delay causes work, which would have otherwise been completed, to be done after material and/or labor costs have increased, such increases will be paid. Payment for escalated material costs will be limited to the increased costs substantiated by documentation furnished by the Contractor. Payment for escalated labor costs will be limited to those items in Article 109.04(b)(1) and (2), except the 35 percent and 10 percent additives will not be permitted.
- (b) Extended Project Overhead. For the duration of the delay, payment for extended project overhead will be paid as follows.
 - (1) Direct Jobsite and Offsite Overhead. Payment for documented direct jobsite overhead and documented direct offsite overhead, including onsite supervisory and administrative personnel, will be allowed according to the following table.

| Original Contract Amount | Supervisory and Administrative Personnel |
|-------------------------------------------|----------------------------------------------------------------------------|
| Up to \$5,000,000 | One Project Superintendent |
| Over \$ 5,000,000 - up to \$25,000,000 | One Project Manager, One Project Superintendent or Engineer, and One Clerk |
| Over \$25,000,000 - up to \$50,000,000 | One Project Manager, One Project Superintendent, One Engineer, and |

| | One Clerk |
|-------------------|------------------------------|
| | One Project Manager, |
| Over \$50,000,000 | Two Project Superintendents, |
| Over \$50,000,000 | One Engineer, and |
| | One Clerk |

- (2) Home Office and Unabsorbed Overhead. Payment for home office and unabsorbed overhead will be calculated as 8 percent of the total delay cost.
- (c) Extended Traffic Control. Traffic control required for an extended period of time due to the delay will be paid for according to Article 109.04.

When an extended traffic control adjustment is paid under this provision, an adjusted unit price as provided for in Article 701.20(a) for increase or decrease in the value of work by more than ten percent will not be paid.

Upon payment for a contract delay under this provision, the Contractor shall assign subrogation rights to the Department for the Department's efforts of recovery from any other party for monies paid by the Department as a result of any claim under this provision. The Contractor shall fully cooperate with the Department in its efforts to recover from another party any money paid to the Contractor for delay damages under this provision."

80384

CORRUGATED PLASTIC PIPE (CULVERT AND STORM SEWER) (BDE)

Effective: January 1, 2021

Revise Tables IIIA and IIIB of Article 542.03 and the storm sewers tables of Article 550.03 of the Standard Specifications to read:

(SEE TABLES ON NEXT 10 PAGES)

"PIPE CULVERTS TABLE IIIA: PLASTIC PIPE PERMITTED FOR A GIVEN PIPE DIAMETER AND FILL HEIGHT OVER THE TOP OF THE PIPE

| | Type 1 | | | | | Type 2 | | | | | | | } | | Type 4 | | | | | | |
|------------------------------|--------|-----------|----------------|-----|-----|-------------------------------|------|----|-----|-----|--------------------------------|--------|--------|--------|--------|--------------------------------|-------|--------|--------|-----|--|
| Nominal Diameter (in.) | F | ill Heigl | | | S, | Fill Height: Greater than 3', | | | | | Fill Height: Greater than 10', | | | | | Fill Height: Greater than 15', | | | | | |
| | | Wi | <u>th 1' m</u> | nin | | not exceeding 10' | | | | | | not ex | ceedir | ng 15' | | | not e | xceedi | ng 20' | | |
| | PVC | CPVC | PE | CPE | CPP | PVC | CPVC | PE | CPE | CPP | PVC | CPVC | PE | CPE | CPP | PVC | CPVC | PE | CPE | CPP | |
| 10 | Χ | QPL | Х | QPL | NA | Х | QPL | Χ | QPL | NA | Χ | QPL | Χ | QPL | NA | Х | QPL | Χ | QPL | NA | |
| 12 | Χ | QPL | Χ | QPL | QPL | Χ | QPL | Χ | QPL | QPL | Χ | QPL | Χ | QPL | QPL | Χ | QPL | Χ | QPL | QPL | |
| 15 | Χ | QPL | NA | QPL | QPL | Χ | QPL | NA | QPL | QPL | Х | QPL | NA | QPL | QPL | Х | QPL | NA | QPL | QPL | |
| 18 | Χ | QPL | Х | QPL | QPL | Χ | QPL | Χ | QPL | QPL | Χ | QPL | Χ | QPL | QPL | Х | QPL | Χ | QPL | QPL | |
| 21 | Χ | QPL | NA | QPL | NA | Χ | QPL | NA | QPL | NA | Χ | QPL | NA | QPL | NA | Χ | QPL | NA | NA | NA | |
| 24 | Χ | QPL | Х | QPL | QPL | Х | QPL | Х | QPL | QPL | Χ | QPL | Χ | QPL | QPL | Х | QPL | Χ | NA | QPL | |
| 27 | Х | NA | NA | NA | NA | Χ | NA | NA | NA | NA | Х | NA | NA | NA | NA | Х | NA | NA | NA | NA | |
| 30 | Χ | QPL | Χ | QPL | QPL | Χ | QPL | Χ | QPL | QPL | Χ | QPL | Χ | QPL | QPL | Χ | QPL | Χ | NA | QPL | |
| 36 | Х | QPL | Х | QPL | QPL | Х | QPL | Χ | QPL | QPL | Х | QPL | Χ | QPL | QPL | Х | QPL | Х | NA | QPL | |
| 42 | Х | NA | Х | QPL | QPL | Χ | NA | Х | QPL | QPL | Х | NA | Χ | NA | QPL | Х | NA | Х | NA | NA | |
| 48 | Χ | NA | Х | QPL | QPL | Χ | NA | Х | QPL | QPL | Χ | NA | Χ | NA | QPL | Х | NA | Χ | NA | NA | |
| 54 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 60 | NA | NA | NA | QPL | QPL | NA | NA | NA | QPL | QPL | NA | NA | NA | NA | QPL | NA | NA | NA | NA | NA | |

Notes: PVC

PVC Polyvinyl Chloride Pipe
CPVC Corrugated Polyvinyl Chloride Pipe with a Smooth Interior

PΕ Polyethylene Pipe

CPE CPP Corrugated Polyethylene Pipe with a Smooth Interior Corrugated Polypropylene Pipe with a Smooth Interior

Χ Permitted

Permitted for the producers approved for that diameter in the Department's qualified product list QPL

Not Acceptable NA

PIPE CULVERTS (metric) TABLE IIIA: PLASTIC PIPE PERMITTED FOR A GIVEN PIPE DIAMETER AND FILL HEIGHT OVER THE TOP OF THE PIPE

| | Type 1 | | | | | Type 2 | | | | | | 1 | Гуре 3 | | | Type 4 | | | | | |
|---------------------|--------|-----------------------|----|-----|--------------------------------------------------|--------|------|----|-----|-----|--------------------|------|--------|-----|----------------------------------------------------|--------|------|----|-----|-----|--|
| Nominal Diameter | | ll Height with 0.3 | | | Fill Height: Greater than 1 m, not exceeding 3 m | | | | | | leight: not exc | | | , | Fill Height: Greater than 4.5 m, not exceeding 6 m | | | | | | |
| (mm) | PVC | CPVC | PE | CPE | CPP | PVC | CPVC | PE | CPE | CPP | PVC | CPVC | PE | CPE | CPP | PVC | CPVC | PE | CPE | CPP | |
| 250 | Χ | QPL | Χ | QPL | NA | Χ | QPL | Χ | QPL | NA | Х | QPL | Χ | QPL | NA | Χ | QPL | Χ | QPL | NA | |
| 300 | Χ | QPL | Χ | QPL | QPL | Χ | QPL | Χ | QPL | QPL | Χ | QPL | Χ | QPL | QPL | Χ | QPL | Χ | QPL | QPL | |
| 375 | Χ | QPL | NA | QPL | QPL | Χ | QPL | NA | QPL | QPL | Х | QPL | NA | QPL | QPL | Χ | QPL | NA | QPL | QPL | |
| 450 | Χ | QPL | Χ | QPL | QPL | Χ | QPL | Χ | QPL | QPL | Х | QPL | Χ | QPL | QPL | Χ | QPL | Χ | QPL | QPL | |
| 525 | Χ | QPL | NA | QPL | NA | Χ | QPL | NA | QPL | NA | Χ | QPL | NA | QPL | NA | Χ | QPL | NA | NA | NA | |
| 600 | Χ | QPL | Χ | QPL | QPL | Χ | QPL | Χ | QPL | QPL | Х | QPL | Χ | QPL | QPL | Χ | QPL | Χ | NA | QPL | |
| 675 | Χ | NA | NA | NA | NA | Χ | NA | NA | NA | NA | Х | NA | NA | NA | NA | Х | NA | NA | NA | NA | |
| 750 | Χ | QPL | Χ | QPL | QPL | Χ | QPL | Χ | QPL | QPL | Χ | QPL | Χ | QPL | QPL | Χ | QPL | Χ | NA | QPL | |
| 900 | Χ | QPL | Χ | QPL | QPL | Χ | QPL | Χ | QPL | QPL | Х | QPL | Χ | QPL | QPL | Х | QPL | Χ | NA | QPL | |
| 1050 | Χ | NA | Χ | QPL | QPL | Χ | NA | Χ | QPL | QPL | Х | NA | Χ | NA | QPL | Х | NA | Χ | NA | NA | |
| 1200 | Χ | NA | Χ | QPL | QPL | Χ | NA | Χ | QPL | QPL | Χ | NA | Χ | NA | QPL | Χ | NA | Χ | NA | NA | |
| 1350 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| 1500 | NA | NA | NA | QPL | QPL | NA | NA | NA | QPL | QPL | NA | NA | NA | NA | QPL | NA | NA | NA | NA | NA | |

Notes: PVC Polyvinyl Chloride Pipe
CPVC Corrugated Polyvinyl Chloride Pipe with a Smooth Interior
PE Polyvethylene Pipe

PE CPE Corrugated Polyethylene Pipe with a Smooth Interior Corrugated Polypropylene Pipe with a Smooth Interior CPP

Permitted Χ

QPL Permitted for the producers approved for that diameter in the Department's qualified product list

NA Not Acceptable

PIPE CULVERTS TABLE IIIB: PLASTIC PIPE PERMITTED FOR A GIVEN PIPE DIAMETER AND FILL HEIGHT OVER THE TOP OF THE PIPE Type 7 Type 5 Type 6 Fill Height: Greater than 20', Fill Height: Greater than 30', Fill Height: Greater than 25', Nominal not exceeding 25' not exceeding 30' not exceeding 35' Diameter (in.) CPVC PΕ CPE CPP PVC CPVC PVC CPVC **PVC** PΕ PΕ 10 Χ QPL Χ QPL NA Χ QPL Χ Χ QPL Χ 12 QPL Χ QPL QPL Χ QPL Χ Χ QPL Χ Х 15 Χ QPL NA QPL Χ QPL NA Χ NA NA QPL 18 Χ QPL Χ NA NA Χ QPL Χ Χ QPL Χ Χ Х QPL Χ 21 QPL NA NA NA NA QPL NA 24 Χ QPL Χ NA NA Χ QPL Χ Χ QPL Χ Χ Χ 27 Χ NA NA NA NA NA NA NA NA 30 Χ QPL QPL Χ QPL Χ Χ QPL Χ Χ NA 36 QPL Χ Χ QPL Х Χ QPL Х Χ NA NA 42 Х NA Χ NA NA Χ NA Χ Χ NA Χ Χ 48 Χ NA NA NA Χ NA Χ Χ NA Х 54 NA 60 NA NA

Notes: PVC Polyvinyl Chloride Pipe

CPVC Corrugated Polyvinyl Chloride Pipe with a Smooth Interior CPP Corrugated Polypropylene Pipe with a Smooth Interior

X Permitted

QPL Permitted for the producers approved for that diameter in the Department's qualified product list

NA Not Acceptable

PIPE CULVERTS (metric) TABLE IIIB: PLASTIC PIPE PERMITTED FOR A GIVEN PIPE DIAMETER AND FILL HEIGHT OVER THE TOP OF THE PIPE

| | | | Type 5 | | | | Type 6 | | Type 7 | | | | |
|----------|-----|-------|------------|--------------|-----|-----|---------------|-----|--------------------------------|-------------|-------|--|--|
| Nominal | | | t: Greater | | | | t: Greater th | | Fill Height: Greater than 9 m, | | | | |
| Diameter | | not e | xceeding 7 | <u>'.5 m</u> | 1 | not | exceeding | 9 m | not e | xceeding 10 |).5 m | | |
| (mm) | PVC | CPVC | PE | CPE | CPP | PVC | CPVC | PE | PVC | CPVC | PE | | |
| 250 | Х | QPL | Х | QPL | NA | Х | QPL | Х | Х | QPL | Х | | |
| 300 | X | QPL | X | QPL | QPL | X | QPL | X | X | QPL | X | | |
| 375 | Χ | QPL | NA | NA | QPL | Х | QPL | NA | Х | QPL | NA | | |
| 450 | X | QPL | X | NA | NA | X | QPL | X | X | QPL | X | | |
| 525 | X | QPL | NA | NA | NA | X | QPL | NA | X | QPL | NA | | |
| 600 | Χ | QPL | Χ | NA | NA | Х | QPL | Х | Х | QPL | X | | |
| 675 | X | NA | NA | NA | NA | X | NA | NA | X | NA | NA | | |
| 750 | X | QPL | X | NA | QPL | X | QPL | X | X | QPL | X | | |
| 900 | Χ | QPL | Χ | NA | NA | Х | QPL | Х | Х | QPL | X | | |
| 1000 | X | NA | X | NA | NA | X | NA | X | X | NA | X | | |
| 1200 | X | NA | X | NA | NA | X | NA | X | X | NA | X | | |
| 1350 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | |
| 1500 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | |

Notes: PVC

PVC Polyvinyl Chloride Pipe
CPVC Corrugated Polyvinyl Chloride Pipe with a Smooth Interior
CPP Corrugated Polypropylene Pipe with a Smooth Interior

Χ Permitted

QPL Permitted for the producers approved for that diameter in the Department's qualified product list Not Acceptable

NA

STORM SEWERS KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE

| | | | | Тур | e 1 | | | Type 2 | | | | | | | | | |
|----------------------------|------|-----|----------------|---------------------|-----------|-----|-----|-------------------------------------------------|------|-----|------|-----|------|----|-----|-----|--|
| Nominal Diameter in. | | | Fil | l Height: with 1 | 3' and le | ss, | | Fill Height: Greater than 3', not exceeding 10' | | | | | | | | | |
| | RCCP | CSP | ESCP | PVC | CPVC | PE | CPE | CPP | RCCP | CSP | ESCP | PVC | CPVC | PE | CPE | CPP | |
| 10 | NA | 3 | Х | Х | QPL | Χ | QPL | NA | NA | 1 | *X | Х | QPL | Х | QPL | NA | |
| 12 | IV | NA | Х | Χ | QPL | Χ | QPL | QPL | П | 1 | *X | X | QPL | Х | QPL | QPL | |
| 15 | IV | NA | NA | Χ | QPL | NA | QPL | QPL | П | 1 | *X | Χ | QPL | NA | QPL | QPL | |
| 18 | IV | NA | NA | Х | QPL | Х | QPL | QPL | II | 2 | Х | Х | QPL | Х | QPL | QPL | |
| 21 | III | NA | NA | Х | QPL | NA | QPL | NA | ll l | 2 | Х | Х | QPL | NA | QPL | NA | |
| 24 | III | NA | NA | Χ | QPL | Χ | QPL | QPL | II | 2 | Χ | Χ | QPL | Х | QPL | QPL | |
| 27 | III | NA | NA | Х | NA | NA | NA | NA | ll l | 3 | Х | Х | NA | NA | NA | NA | |
| 30 | IV | NA | NA | Χ | QPL | Χ | QPL | QPL | II | 3 | Х | Х | QPL | X | QPL | QPL | |
| 33 | Ш | NA | NA | NA | NA | NA | NA | NA | П | NA | Χ | NA | NA | NA | NA | NA | |
| 36 | III | NA | NA | Х | QPL | Х | QPL | QPL | II | NA | Х | X | QPL | Х | QPL | QPL | |
| 42 | II | NA | Х | Х | NA | Х | QPL | QPL | II | NA | X | Х | NA | Х | QPL | QPL | |
| 48 | II | NA | Х | Х | NA | Х | QPL | QPL | П | NA | X | Х | NA | Х | QPL | QPL | |
| 54 | II | NA | NA | NA | NA | NA | NA | NA | II | NA | NA | NA | NA | NA | NA | NA | |
| 60 | II | NA | NA | NA | NA | NA | QPL | QPL | II | NA | NA | NA | NA | NA | QPL | QPL | |
| 66 | II | NA | NA | NA | NA | NA | NA | NA | П | NA | NA | NA | NA | NA | NA | NA | |
| 72 | II | NA | NA | NA | NA | NA | NA | NA | II | NA | NA | NA | NA | NA | NA | NA | |
| 78 | II | NA | NA | NA | NA | NA | NA | NA | II | NA | NA | NA | NA | NA | NA | NA | |
| 84 | II | NA | NA | NA | NA | NA | NA | NA | П | NA | NA | NA | NA | NA | NA | NA | |
| 90 | II | NA | NA | NA | NA | NA | NA | NA | II | NA | NA | NA | NA | NA | NA | NA | |
| 96 | II | NA | NA | NA | NA | NA | NA | NA | III | NA | NA | NA | NA | NA | NA | NA | |
| 102 | II | NA | NA | NA | NA | NA | NA | NA | III | NA | NA | NA | NA | NA | NA | NA | |
| 108 | | NA | NA Culus et | NA | NA | NA | NA | NA | III | NA | NA | NA | NA | NA | NA | NA | |

RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe

CSP Concrete Sewer, Storm drain, and Culvert Pipe (number in column indicates strength class)

Extra Strength Clay Pipe **ESCP** PVC

Polyvinyl Chloride Pipe Corrugated Polyvinyl Chloride Pipe with a Smooth Interior CPVC

PΕ Polyethylene Pipe

CPE Corrugated Polyethylene Pipe with a Smooth Interior CPP Corrugated Polypropylene Pipe with a Smooth Interior

Permitted Χ

QPL Permitted for the producers approved for that diameter in the Department's qualified product list

Not Acceptable NA

May also use Standard Strength Clay Pipe

STORM SEWERS (metric) KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE

| | Type 1 | | | | | | | | | | Type 2 | | | | | | | | | |
|---------------------------|--------|-----|------|-----------|------------|------|-----|-----|-----------------------------------------------------|-----|--------|-----|------|----|-----|-----|--|--|--|--|
| Nominal Diameter mm | | | Fill | Height: 7 | 1 m and le | ess, | | | Fill Height: Greater than 1 m, not exceeding 3 m | | | | | | | | | | | |
| | RCCP | CSP | ESCP | PVC | CPVC | PE | CPE | CPP | RCCP | CSP | ESCP | PVC | CPVC | PE | CPE | CPP | | | | |
| 250 | NA | 3 | Х | Х | QPL | Х | QPL | NA | NA | 1 | *X | Х | QPL | Х | QPL | NA | | | | |
| 300 | IV | NA | Х | Х | QPL | X | QPL | QPL | II | 1 | *X | Х | QPL | Х | QPL | QPL | | | | |
| 375 | IV | NA | NA | Χ | QPL | NA | QPL | QPL | П | 1 | *X | Χ | QPL | NA | QPL | QPL | | | | |
| 450 | IV | NA | NA | Х | QPL | Х | QPL | QPL | ll l | 2 | Х | Х | QPL | Х | QPL | QPL | | | | |
| 525 | III | NA | NA | Х | QPL | NA | QPL | NA | ll l | 2 | Х | Х | QPL | NA | QPL | NA | | | | |
| 600 | III | NA | NA | Χ | QPL | Χ | QPL | QPL | П | 2 | Χ | Χ | QPL | Χ | QPL | QPL | | | | |
| 675 | III | NA | NA | Х | NA | NA | NA | NA | II | 3 | Х | X | NA | NA | NA | NA | | | | |
| 750 | IV | NA | NA | Х | QPL | Х | QPL | QPL | ll l | 3 | Х | Х | QPL | Х | QPL | QPL | | | | |
| 825 | III | NA | NA | NA | NA | NA | NA | NA | II | NA | Χ | NA | NA | NA | NA | NA | | | | |
| 900 | III | NA | NA | Х | QPL | X | QPL | QPL | II | NA | Х | X | QPL | Х | QPL | QPL | | | | |
| 1050 | ll l | NA | Х | Х | NA | Х | QPL | QPL | ll l | NA | Х | Х | NA | Х | QPL | QPL | | | | |
| 1200 | П | NA | Χ | Χ | NA | Χ | QPL | QPL | П | NA | Χ | Χ | NA | Χ | QPL | QPL | | | | |
| 1350 | II | NA | NA | NA | NA | NA | NA | NA | II | NA | NA | NA | NA | NA | NA | NA | | | | |
| 1500 | ll l | NA | NA | NA | NA | NA | QPL | QPL | ll l | NA | NA | NA | NA | NA | QPL | QPL | | | | |
| 1650 | П | NA | NA | NA | NA | NA | NA | NA | П | NA | NA | NA | NA | NA | NA | NA | | | | |
| 1800 | Ш | NA | NA | NA | NA | NA | NA | NA | Ш | NA | NA | NA | NA | NA | NA | NA | | | | |
| 1950 | ll l | NA | NA | NA | NA | NA | NA | NA | ll l | NA | NA | NA | NA | NA | NA | NA | | | | |
| 2100 | II | NA | NA | NA | NA | NA | NA | NA | П | NA | NA | NA | NA | NA | NA | NA | | | | |
| 2250 | Ш | NA | NA | NA | NA | NA | NA | NA | Ш | NA | NA | NA | NA | NA | NA | NA | | | | |
| 2400 | II | NA | NA | NA | NA | NA | NA | NA | III | NA | NA | NA | NA | NA | NA | NA | | | | |
| 2550 | II | NA | NA | NA | NA | NA | NA | NA | III | NA | NA | NA | NA | NA | NA | NA | | | | |
| 2700 | II | NA | NA | NA | NA | NA | NA | NA | III | NA | NA | NA | NA | NA | NA | NA | | | | |

Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe RCCP

CSP Concrete Sewer, Storm drain, and Culvert Pipe (number in column indicates strength class)

Extra Strength Clay Pipe **ESCP** PVC

Polyvinyl Chloride Pipe Corrugated Polyvinyl Chloride Pipe with a Smooth Interior CPVC

PΕ Polyethylene Pipe

CPE Corrugated Polyethylene Pipe with a Smooth Interior CPP Corrugated Polypropylene Pipe with a Smooth Interior

Permitted Χ

QPL Permitted for the producers approved for that diameter in the Department's qualified product list

Not Acceptable NA

May also use Standard Strength Clay Pipe

STORM SEWERS KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE Type 3 Type 4 Nominal Fill Height: Greater than 10' Fill Height: Greater than 15' Diameter not exceeding 15' not exceeding 20' in. PVC **RCCP CSP ESCP** CPVC CPE CPP **RCCP PVC CPVC** CPE CPP PΕ **CSP ESCP** PΕ 10 NA 2 Χ QPL Χ QPL 3 Χ QPL Χ QPL NA Χ NA NA Х 12 2 Χ Χ QPL Χ QPL QPL Χ QPL Χ QPL QPL Ш IV NA NA 15 Ш 3 Χ Χ QPL NA QPL QPL IV NA NA Χ QPL NA QPL QPL 18 Χ Χ Х Χ QPL QPL Ш NA QPL Χ QPL QPL IV NA NA QPL 21 Ш NA NA Χ QPL NA QPL NA IV NA NA Х QPL NA NA NA Χ QPL QPL QPL Х QPL QPL 24 Ш NA NA Χ IV NA NA Χ NA 27 NA Χ NA IV NA NA X NA NA NA NA NA NA NA NA 30 Х QPL QPL QPL Х QPL NA NA Χ IV NA NA QPL Х NA Ш 33 NA NA NA NA IV NA NA NA NA Ш NA NA NA NA NA NA 36 Χ QPL QPL QPL Χ QPL Ш NA NA Χ QPL IV NA NA Χ NA 42 NA Χ NA Χ QPL IV Х NA Χ NA NA Ш NA NA NA NA 48 Χ QPL Х Χ Ш NA NA Χ NA NA IV NA NA NA NA NA 54 Ш NA NA NA NA NA NA NA IV NA NA NA NA NA NA NA 60 NA NA QPL IV NA NA NA Ш NA NA NA NA NA NA NA NA 66 NA NA NA NA NA NA NA IV NA NA NA NA NA NA NA 72 NA NA IV NA NA NA Ш NA NA NA NA NA NA NA NA NA 78 NA Ш NA NA IV NA NA 84 NA IV NA NA

NA

NA

NA

NA

NA

1680

1690

1700

NA

NA NA 1710 NA RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe (RCCP with a number instead of a Roman numeral shall be furnished according to AASHTO M170 Section 6. This number represents the D-load to produce a 0.01 in crack.)

NA

NA

NA

NA

CSP Concrete Sewer, Storm drain, and Culvert Pipe (number in column indicates strength class)

NA

ESCP Extra Strength Clay Pipe

Polyvinyl Chloride Pipe PVC

Ш

Ш

Ш

Ш

1360

90

96

102

108

NA

NA

NA

NA

NA

CPVC Corrugated Polyvinyl Chloride Pipe with a Smooth Interior

NA

NA

NA

NA

PΕ Polyethylene Pipe

CPE Corrugated Polyethylene Pipe with a Smooth Interior CPP Corrugated Polypropylene Pipe with a Smooth Interior

Permitted Χ

QPL Permitted for the producers approved for that diameter in the Department's qualified product list

NA Not Acceptable

KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE Type 3 Type 4 Nominal Fill Height: Greater than 3 m, Fill Height: Greater than 4.5 m, Diameter not exceeding 4.5 m not exceeding 6 m mm **RCCP CSP ESCP** PVC CPVC CPE CPP **RCCP PVC CPVC** CPE CPP PΕ **CSP ESCP** PΕ 250 NA 2 QPL Χ QPL NA 3 Χ QPL Χ QPL NA Χ Χ NA Х 300 2 Χ Χ QPL Χ QPL QPL NA Χ QPL Χ QPL QPL IV NA Ш 375 Ш 3 Χ Χ QPL NA QPL QPL IV NA NA Χ QPL NA QPL QPL 450 Χ Χ Х Χ QPL QPL Ш NA QPL Χ QPL QPL IV NA NA QPL Χ 525 Ш NA NA QPL NA QPL NA IV NA NA Х QPL NA NA NA Χ QPL QPL QPL IV Х QPL QPL 600 Ш NA NA Χ NA NA Χ NA 675 NA NA Χ NA IV NA NA X NA NA NA NA NA NA NA Х QPL QPL QPL Х QPL 750 Ш NA NA Х IV NA NA QPL Х NA 825 NA NA NA NA IV NA NA NA NA Ш NA NA NA NA NA NA Χ QPL QPL QPL IV QPL Χ QPL 900 NA NA Χ NA NA Χ NA 1050 NA Χ NA Χ QPL IV Х NA Χ NA NA NA NA NA NA 1200 Х QPL Х Χ Ш NA NA Χ NA NA IV NA NA NA NA NA

NA

QPL

NA

NA

NA

NA

NA

NA

NA

NA

IV

IV

IV

IV

IV

IV

80

80

80

80

NA

STORM SEWERS (metric)

NA RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe (RCCP with a number instead of a Roman numeral shall be furnished

NA

NA

NA

NA

NA

NA

NA

NA

NA

according to AASHTO M170 Section 6. This number represents the D-load to produce a 25.4 micro-meter crack.)

NA

CSP Concrete Sewer, Storm drain, and Culvert Pipe (number in column indicates strength class)

NA

ESCP Extra Strength Clay Pipe Polyvinyl Chloride Pipe PVC

Ш

Ш

Ш

Ш

Ш

Ш

Ш

Ш

70

NA

CPVC Corrugated Polyvinyl Chloride Pipe with a Smooth Interior

NA

PΕ Polyethylene Pipe

CPE Corrugated Polyethylene Pipe with a Smooth Interior Corrugated Polypropylene Pipe with a Smooth Interior CPP

Permitted Χ

1350

1500

1650

1800

1950

2100

2250

2400

2550

2700

QPL Permitted for the producers approved for that diameter in the Department's qualified product list

NA Not Acceptable

STORM SEWERS KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE

| | Type 5 | | | | | | | Type 6 | | | Type 7 | | | |
|----------------------------|-----------------------------------------------------|-----|------|----|-----|-----|--------------------------------------------------|--------|------|--------------------------------------------------|--------|-----|------|----|
| Nominal Diameter in. | Fill Height: Greater than 20', not exceeding 25' | | | | | | Fill Height: Greater than 25', not exceeding 30' | | | Fill Height: Greater than 30', not exceeding 35' | | | | |
| | RCCP | PVC | CPVC | PE | CPE | CPP | RCCP | PVC | CPVC | PE | RCCP | PVC | CPVC | PE |
| 10 | NA | Х | QPL | Х | QPL | NA | NA | Χ | QPL | Χ | NA | Х | QPL | Х |
| 12 | IV | Χ | QPL | Х | QPL | QPL | V | Х | QPL | Х | V | Х | QPL | Х |
| 15 | IV | Χ | QPL | NA | NA | QPL | V | Χ | QPL | NA | V | Χ | QPL | NA |
| 18 | IV | Χ | QPL | Χ | NA | NA | V | Χ | QPL | Χ | V | Х | QPL | Х |
| 21 | IV | Χ | QPL | NA | NA | NA | V | Х | QPL | NA | V | Х | QPL | NA |
| 24 | IV | Χ | QPL | Χ | NA | NA | V | Χ | QPL | Χ | V | Χ | QPL | Χ |
| 27 | IV | Χ | NA | NA | NA | NA | V | Χ | NA | NA | V | Х | NA | NA |
| 30 | IV | Χ | QPL | Χ | NA | QPL | V | Χ | QPL | Χ | V | Х | QPL | Х |
| 33 | IV | NA | NA | NA | NA | NA | V | NA | NA | NA | V | NA | NA | NA |
| 36 | IV | Χ | QPL | Х | NA | NA | V | Х | QPL | Х | V | Х | QPL | Х |
| 42 | IV | Χ | NA | Х | NA | NA | V | Х | NA | Х | V | Х | NA | Х |
| 48 | IV | Χ | NA | Χ | NA | NA | V | Χ | NA | Χ | V | Χ | NA | Χ |
| 54 | IV | NA | NA | NA | NA | NA | V | NA | NA | NA | V | NA | NA | NA |
| 60 | IV | NA | NA | NA | NA | NA | V | NA | NA | NA | V | NA | NA | NA |
| 66 | IV | NA | NA | NA | NA | NA | V | NA | NA | NA | V | NA | NA | NA |
| 72 | V | NA | NA | NA | NA | NA | V | NA | NA | NA | V | NA | NA | NA |
| 78 | 2020 | NA | NA | NA | NA | NA | 2370 | NA | NA | NA | 2730 | NA | NA | NA |
| 84 | 2020 | NA | NA | NA | NA | NA | 2380 | NA | NA | NA | 2740 | NA | NA | NA |
| 90 | 2030 | NA | NA | NA | NA | NA | 2390 | NA | NA | NA | 2750 | NA | NA | NA |
| 96 | 2040 | NA | NA | NA | NA | NA | 2400 | NA | NA | NA | 2750 | NA | NA | NA |
| 102 | 2050 | NA | NA | NA | NA | NA | 2410 | NA | NA | NA | 2760 | NA | NA | NA |
| 108 | 2060 | NA | NA | NA | NA | NA | 2410 | NA | NA | NA | 2770 | NA | NA | NA |

RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe (RCCP with a number instead of a Roman numeral shall be furnished according to AASHTO M170 Section 6. This number represents the D-load to produce a 0.01 in crack.)

PVC Polyvinyl Chloride Pipe

CPVC Corrugated Polyvinyl Chloride Pipe with a Smooth Interior

PE Polyethylene Pipe

CPE Corrugated Polyethylene Pipe with a Smooth Interior CPP Corrugated Polypropylene Pipe with a Smooth Interior

X Permitted

QPL Permitted for the producers approved for that diameter in the Department's qualified product list

NA Not Acceptable

STORM SEWERS (metric) KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE

| | Type 5 | | | | | | Type 6 | | | | Type 7 | | | |
|---------------------|-------------------------------------------------------|-----|---------------|----|----------------|------------------|----------------------------------------------------|-----|------|-----------------|-----------------------------------------------------|--------|-----------------------|----|
| Nominal Diameter | Fill Height: Greater than 6 m, not exceeding 7.5 m | | | | | | Fill Height: Greater than 7.5 m, not exceeding 9 m | | | | Fill Height: Greater than 9 m, not exceeding 10.5 m | | | |
| mm | not exceeding 7.5 m | | | | | | not exceeding 9 m | | | | not exceeding 10.5 m | | | |
| | RCCP | PVC | CPVC | PE | CPE | CPP | RCCP | PVC | CPVC | PE | RCCP | PVC | CPVC | PE |
| 250 | NA | Х | QPL | Х | QPL | NA | NA | Х | QPL | Х | NA | Х | QPL | Х |
| 300 | IV | Χ | QPL | Χ | QPL | QPL | V | X | QPL | X | V | X | QPL | X |
| 375 | IV | Χ | QPL | NA | NA | QPL | V | Χ | QPL | NA | V | X | QPL | NA |
| 450 | IV | Χ | QPL | Χ | NA | NA | V | Χ | QPL | Χ | V | Χ | QPL | X |
| 525 | IV | Χ | QPL | NA | NA | NA | V | Χ | QPL | NA | V | X | QPL | NA |
| 600 | IV | Χ | QPL | Χ | NA | NA | V | Χ | QPL | Χ | V | Χ | QPL | Χ |
| 675 | IV | Χ | NA | NA | NA | NA | V | Χ | NA | NA | V | Χ | NA | NA |
| 750 | IV | Χ | QPL | Χ | NA | QPL | V | Χ | QPL | Χ | V | X | QPL | X |
| 825 | IV | NA | NA | NA | NA | NA | V | NA | NA | NA | V | NA | NA | NA |
| 900 | IV | Χ | QPL | Χ | NA | NA | V | Χ | QPL | Χ | V | Х | QPL | Χ |
| 1050 | IV | X | NA | Χ | NA | NA | V | Χ | NA | Χ | V | Χ | NA | X |
| 1200 | IV | Χ | NA | Χ | NA | NA | V | Χ | NA | Χ | V | Χ | NA | Χ |
| 1350 | IV | NA | NA | NA | NA | NA | V | NA | NA | NA | V | NA | NA | NA |
| 1500 | IV | NA | NA | NA | NA | NA | V | NA | NA | NA | V | NA | NA | NA |
| 1650 | IV | NA | NA | NA | NA | NA | V | NA | NA | NA | V | NA | NA | NA |
| 1800 | V | NA | NA | NA | NA | NA | V | NA | NA | NA | V | NA | NA | NA |
| 1950 | 100 | NA | NA | NA | NA | NA | 110 | NA | NA | NA | 130 | NA | NA | NA |
| 2100 | 100 | NA | NA | NA | NA | NA | 110 | NA | NA | NA | 130 | NA | NA | NA |
| 2250 | 100 | NA | NA | NA | NA | NA | 110 | NA | NA | NA | 130 | NA | NA | NA |
| 2400 | 100 | NA | NA | NA | NA | NA | 120 | NA | NA | NA | 130 | NA | NA | NA |
| 2550 | 100 | NA | NA | NA | NA | NA | 120 | NA | NA | NA | 130 | NA | NA | NA |
| 2700 | 100 | NA | NA Culus d | NA | NA in and 6 | NA Causas Dia | 120 | NA | NA | NA nd of a D | 130 | NA | NA • • • • • • • • | NA |

RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe (RCCP with a number instead of a Roman numeral shall be furnished according to AASHTO M170 Section 6. This number represents the D-load to produce a 25.4 micro-meter crack.)

PVC Polyvinyl Chloride Pipe

CPVC Corrugated Polyvinyl Chloride Pipe with a Smooth Interior

PE Polyethylene Pipe

CPE Corrugated Polyethylene Pipe with a Smooth Interior CPP Corrugated Polypropylene Pipe with a Smooth Interior

X Permitted

QPL Permitted for the producers approved for that diameter in the Department's qualified product list

NA Not Acceptable"

Revise the first paragraph of Article 1040.03 of the Standard Specifications to read:

"1040.03 Polyvinyl Chloride (PVC) Pipe. Acceptance testing of PVC pipe and fittings shall be accomplished during the same construction season in which they are installed. The pipe shall meet the following additional requirements."

Revise Article 1040.04(b) of the Standard Specifications to read:

"(b) Corrugated PE Pipe with a Smooth Interior. The manufacturer shall be listed as compliant through the NTPEP program and the pipe shall be according to AASHTO M 294 (nominal size – 12 to 60 in. (300 to 1500 mm)). The pipe shall be Type S or D."

Revise the first paragraph of Article 1040.04(d) of the Standard Specifications to read:

"(d) PE Pipe with a Smooth Interior. The pipe shall be according to ASTM F 714 (DR 32.5) with a minimum cell classification of PE 335434 as defined in ASTM D 3350."

Revise the first paragraph of Article 1040.08 of the Standard Specifications to read:

"1040.08 Polypropylene (PP) Pipe. Storage and handling shall be according to the manufacturer's recommendations, except in no case shall the pipe be exposed to direct sunlight for more than six months. Acceptance testing of the pipe shall be accomplished during the same construction season in which it is installed. The pipe shall meet the following additional requirements."

DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION (BDE)

Effective: September 1, 2000 Revised: March 2, 2019

<u>FEDERAL OBLIGATION</u>. The Department of Transportation, as a recipient of federal financial assistance, is required to take all necessary and reasonable steps to ensure nondiscrimination in the award and administration of contracts. Consequently, the federal regulatory provisions of 49 CFR Part 26 apply to this contract concerning the utilization of disadvantaged business enterprises. For the purposes of this Special Provision, a disadvantaged business enterprise (DBE) means a business certified by the Department in accordance with the requirements of 49 CFR Part 26 and listed in the Illinois Unified Certification Program (IL UCP) DBE Directory.

STATE OBLIGATION. This Special Provision will also be used by the Department to satisfy the requirements of the Business Enterprise for Minorities, Females, and Persons with Disabilities Act, 30 ILCS 575. When this Special Provision is used to satisfy state law requirements on 100 percent state-funded contracts, the federal government has no involvement in such contracts (not a federal-aid contract) and no responsibility to oversee the implementation of this Special Provision by the Department on those contracts. DBE participation on 100 percent state-funded contracts will not be credited toward fulfilling the Department's annual overall DBE goal required by the US Department of Transportation to comply with the federal DBE program requirements.

<u>CONTRACTOR ASSURANCE</u>. The Contractor makes the following assurance and agrees to include the assurance in each subcontract the Contractor signs with a subcontractor.

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 contracts funded in whole or in part with federal or state funds. 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:

- (a) Withholding progress payments;
- (b) Assessing sanctions;
- (c) Liquidated damages; and/or
- (d) Disqualifying the Contractor from future bidding as non-responsible.

OVERALL GOAL SET FOR THE DEPARTMENT. As a requirement of compliance with 49 CFR Part 26, the Department has set an overall goal for DBE participation in its federally assisted contracts. That goal applies to all federal-aid funds the Department will expend in its federally assisted contracts for the subject reporting fiscal year. The Department is required to make a

good faith effort to achieve the overall goal. The dollar amount paid to all approved DBE companies performing work called for in this contract is eligible to be credited toward fulfillment of the Department's overall goal.

CONTRACT GOAL TO BE ACHIEVED BY THE CONTRACTOR. This contract includes a specific DBE utilization goal established by the Department. The goal has been included because the Department has determined the work of this contract has subcontracting opportunities that may be suitable for performance by DBE companies. The determination is based on an assessment of the type of work, the location of the work, and the availability of DBE companies to do a part of the work. The assessment indicates, in the absence of unlawful discrimination and in an arena of fair and open competition, DBE companies can be expected to perform __8.00_____% of the work. This percentage is set as the DBE participation goal for this contract. Consequently, in addition to the other award criteria established for this contract, the Department will only award this contract to a bidder who makes a good faith effort for award consideration in the performance of the work. A bidder makes a good faith effort for award consideration if either of the following is done in accordance with the procedures set for in this Special Provision:

- (a) The bidder documents enough DBE participation has been obtained to meet the goal or,
- (b) The bidder documents a good faith effort has been made to meet the goal, even though the effort did not succeed in obtaining enough DBE participation to meet the goal.

<u>DBE LOCATOR REFERENCES.</u> Bidders shall consult the IL UCP DBE Directory as a reference source for DBE-certified companies. In addition, the Department maintains a letting and item specific DBE locator information system whereby DBE companies can register their interest in providing quotes on particular bid items advertised for letting. Information concerning DBE companies willing to quote work for particular contracts may be obtained by contacting the Department's Bureau of Small Business Enterprises at telephone number (217) 785-4611, or by visiting the Department's website at:

http://www.idot.illinois.gov/doing-business/certifications/disadvantaged-business-enterprise-certification/il-ucp-directory/index.

<u>BIDDING PROCEDURES</u>. Compliance with this Special Provision is a material bidding requirement and failure of the bidder to comply will render the bid not responsive.

The bidder shall submit a DBE Utilization Plan (form SBE 2026), and a DBE Participation Statement (form SBE 2025) for each DBE company proposed for the performance of work to achieve the contract goal, with the bid. If the Utilization Plan indicates the contract goal will not be met, documentation of good faith efforts shall also be submitted. The documentation of good faith efforts must include copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor is selected over a DBE for work on the contract. The required forms and documentation must be submitted as a single .pdf file using the "Integrated Contractor Exchange (iCX)" application within the Department's "EBids System".

The Department will not accept a Utilization Plan if it does not meet the bidding procedures set forth herein and the bid will be declared not responsive. In the event the bid is declared not responsive, the Department may elect to cause the forfeiture of the penal sum of the bidder's proposal guaranty and may deny authorization to bid the project if re-advertised for bids.

GOOD FAITH EFFORT PROCEDURES. The contract will not be awarded until the Utilization Plan is approved. All information submitted by the bidder must be complete, accurate and adequately document enough DBE participation has been obtained or document the good faith efforts of the bidder, in the event enough DBE participation has not been obtained, before the Department will commit to the performance of the contract by the bidder. The Utilization Plan will be approved by the Department if the Utilization Plan documents sufficient commercially useful DBE work to meet the contract goal or the bidder submits sufficient documentation of a good faith effort to meet the contract goal pursuant to 49 CFR Part 26, Appendix A. This means the bidder must show that all necessary and reasonable steps were taken to achieve the contract goal. Necessary and reasonable steps are those which, by their scope, intensity and appropriateness to the objective, could reasonably be expected to obtain sufficient DBE participation, even if they were not successful. The Department will consider the quality, quantity, and intensity of the kinds of efforts the bidder has made. Mere pro forma efforts, in other words efforts done as a matter of form, are not good faith efforts; rather, the bidder is expected to have taken genuine efforts that would be reasonably expected of a bidder actively and aggressively trying to obtain DBE participation sufficient to meet the contract goal.

- (a) The following is a list of types of action that the Department will consider as part of the evaluation of the bidder's good faith efforts to obtain participation. These listed factors are not intended to be a mandatory checklist and are not intended to be exhaustive. Other factors or efforts brought to the attention of the Department may be relevant in appropriate cases and will be considered by the Department.
 - (1) Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBE companies that have the capability to perform the work of the contract. The bidder must solicit this interest within sufficient time to allow the DBE companies to respond to the solicitation. The bidder must determine with certainty if the DBE companies are interested by taking appropriate steps to follow up initial solicitations.
 - (2) Selecting portions of the work to be performed by DBE companies 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 to facilitate DBE participation, even when the Contractor might otherwise prefer to perform these work items with its own forces.
 - (3) Providing interested DBE companies with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.

- (4) a. Negotiating in good faith with interested DBE companies. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to 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 DBE companies 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 DBE companies to perform the work.
 - b. A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBE companies is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also the ability or desire of a bidder to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Bidders are not, however, required to accept higher quotes from DBE companies if the price difference is excessive or unreasonable. In accordance with the above Bidding Procedures, the documentation of good faith efforts must include copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor was selected over a DBE for work on the contract.
- (5) Not rejecting DBE companies as being unqualified without sound reasons based on a thorough investigation of their capabilities. The bidder's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the bidder's efforts to meet the project goal.
- (6) Making efforts to assist interested DBE companies in obtaining bonding, lines of credit, or insurance as required by the recipient or Contractor.
- (7) Making efforts to assist interested DBE companies 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 DBE companies.
- (b) If the Department determines the bidder has made a good faith effort to secure the work commitment of DBE companies to meet the contract goal, the Department will award the contract provided it is otherwise eligible for award. If the Department determines the

bidder has failed to meet the requirements of this Special Provision or that a good faith effort has not been made, the Department will notify the responsible company official designated in the Utilization Plan that the bid is not responsive. The notification will also include a statement of reasons for the adverse determination. If the Utilization Plan is not approved because it is deficient as a technical matter, unless waived by the Department, the bidder will be notified and will be allowed no more than a five calendar day period to cure the deficiency.

(c) The bidder may request administrative reconsideration of an adverse determination by emailing the Department at "DOT.DBE.UP@illinois.gov" within the five calendar days after the receipt of the notification of the determination. The determination shall become final if a request is not made on or before the fifth calendar day. A request may provide additional written documentation or argument concerning the issues raised in the determination statement of reasons, provided the documentation and arguments address efforts made prior to submitting the bid. The request will be reviewed by the Department's Reconsideration Officer. The Reconsideration Officer will extend an opportunity to the bidder to meet in person to consider all issues of documentation and whether the bidder made a good faith effort to meet the goal. After the review by the Reconsideration Officer, the bidder will be sent a written decision within ten working days after receipt of the request for reconsideration, explaining the basis for finding that the bidder did or did not meet the goal or make adequate good faith efforts to do so. A final decision by the Reconsideration Officer that a good faith effort was made shall approve the Utilization Plan submitted by the bidder and shall clear the contract for award. A final decision that a good faith effort was not made shall render the bid not responsive.

CALCULATING DBE PARTICIPATION. The Utilization Plan values represent work anticipated to be performed and paid for upon satisfactory completion. The Department is only able to count toward the achievement of the overall goal and the contract goal the value of payments made for the work actually performed by DBE companies. In addition, a DBE must perform a commercially useful function on the contract to be counted. A commercially useful function is generally performed when the DBE is responsible for the work and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. The Department and Contractor are governed by the provisions of 49 CFR Part 26.55(c) on questions of commercially useful functions as it affects the work. Specific counting guidelines are provided in 49 CFR Part 26.55, the provisions of which govern over the summary contained herein.

- (a) DBE as the Contractor: 100 percent goal credit for that portion of the work performed by the DBE's own forces, including the cost of materials and supplies. Work that a DBE subcontracts to a non-DBE does not count toward the DBE goals.
- (b) DBE as a joint venture Contractor: 100 percent goal credit for that portion of the total dollar value of the contract equal to the distinct, clearly defined portion of the work performed by the DBE's own forces.

- (c) DBE as a subcontractor: 100 percent goal credit for the work of the subcontract performed by the DBE's own forces, including the cost of materials and supplies, excluding the purchase of materials and supplies or the lease of equipment by the DBE subcontractor from the Contractor or its affiliates. Work that a DBE subcontractor in turn subcontracts to a non-DBE does not count toward the DBE goal.
- (d) DBE as a trucker: 100 percent goal credit for trucking participation provided the DBE is responsible for the management and supervision of the entire trucking operation for which it is responsible. At least one truck owned, operated, licensed, and insured by the DBE must be used on the contract. Credit will be given for the following:
 - (1) The DBE may lease trucks from another DBE firm, including an owner-operator who is certified as a DBE. The DBE who leases trucks from another DBE receives credit for the total value of the transportation services the lessee DBE provides on the contract.
 - (2) The DBE may also lease trucks from a non-DBE firm, including from an owner-operator. The DBE who leases trucks from a non-DBE is entitled to credit only for the fee or commission is receives as a result of the lease arrangement.
- (e) DBE as a material supplier:
 - (1) 60 percent goal credit for the cost of the materials or supplies purchased from a DBE regular dealer.
 - (2) 100 percent goal credit for the cost of materials of supplies obtained from a DBE manufacturer.
 - (3) 100 percent credit for the value of reasonable fees and commissions for the procurement of materials and supplies if not a DBE regular dealer or DBE manufacturer.

CONTRACT COMPLIANCE. Compliance with this Special Provision is an essential part of the contract. The Department is prohibited by federal regulations from crediting the participation of a DBE included in the Utilization Plan toward either the contract goal or the Department's overall goal until the amount to be applied toward the goals has been paid to the DBE. The following administrative procedures and remedies govern the compliance by the Contractor with the contractual obligations established by the Utilization Plan. After approval of the Utilization Plan and award of the contract, the Utilization Plan and individual DBE Participation Statements become part of the contract. If the Contractor did not succeed in obtaining enough DBE participation to achieve the advertised contract goal, and the Utilization Plan was approved and contract awarded based upon a determination of good faith, the total dollar value of DBE work calculated in the approved Utilization Plan as a percentage of the awarded contract value shall become the amended contract goal. All work indicated for performance by an approved DBE shall be performed, managed, and supervised by the DBE executing the DBE Participation Commitment Statement.

- (a) <u>NO AMENDMENT</u>. No amendment to the Utilization Plan may be made without prior written approval from the Department's Bureau of Small Business Enterprises. All requests for amendment to the Utilization Plan shall be emailed to the Department at <u>DOT.DBE.UP@illinois.gov</u>.
- (b) <u>CHANGES TO WORK</u>. Any deviation from the DBE condition-of-award or contract plans, specifications, or special provisions must be approved, in writing, by the Department as provided elsewhere in the Contract. The Contractor shall notify affected DBEs in writing of any changes in the scope of work which result in a reduction in the dollar amount condition-of-award to the contract. Where the revision includes work committed to a new DBE subcontractor, not previously involved in the project, then a Request for Approval of Subcontractor, Department form BC 260A or AER 260A, must be signed and submitted. If the commitment of work is in the form of additional tasks assigned to an existing subcontract, a new Request for Approval of Subcontractor will not be required. However, the Contractor must document efforts to assure the existing DBE subcontractor is capable of performing the additional work and has agreed in writing to the change.
- (c) <u>SUBCONTRACT</u>. The Contractor must provide copies of DBE subcontracts to the Department upon request. Subcontractors shall ensure that all lower tier subcontracts or agreements with DBEs to supply labor or materials be performed in accordance with this Special Provision.
- (d) <u>ALTERNATIVE WORK METHODS</u>. In addition to the above requirements for reductions in the condition of award, additional requirements apply to the two cases of Contractorinitiated work substitution proposals. Where the contract allows alternate work methods which serve to delete or create underruns in condition of award DBE work, and the Contractor selects that alternate method or, where the Contractor proposes a substitute work method or material that serves to diminish or delete work committed to a DBE and replace it with other work, then the Contractor must demonstrate one of the following:
 - (1) The replacement work will be performed by the same DBE (as long as the DBE is certified in the respective item of work) in a modification of the condition of award; or
 - (2) The DBE is aware its work will be deleted or will experience underruns and has agreed in writing to the change. If this occurs, the Contractor shall substitute other work of equivalent value to a certified DBE or provide documentation of good faith efforts to do so; or
 - (3) The DBE is not capable of performing the replacement work or has declined to perform the work at a reasonable competitive price. If this occurs, the Contractor shall substitute other work of equivalent value to a certified DBE or provide documentation of good faith efforts to do so.

(e) TERMINATION AND REPLACEMENT PROCEDURES. The Contractor shall not terminate or replace a DBE listed on the approved Utilization Plan, or perform with other forces work designated for a listed DBE except as provided in this Special Provision. The Contractor shall utilize the specific DBEs listed to perform the work and supply the materials for which each is listed unless the Contractor obtains the Department's written consent as provided in subsection (a) of this part. Unless Department consent is provided for termination of a DBE subcontractor, the Contractor shall not be entitled to any payment for work or material unless it is performed or supplied by the DBE in the Utilization Plan.

As stated above, the Contractor shall not terminate or replace a DBE subcontractor listed in the approved Utilization Plan without prior written consent. This includes, but is not limited to, instances in which the Contractor seeks to perform work originally designated for a DBE subcontractor with its own forces or those of an affiliate, a non-DBE firm, or with another DBE firm. Written consent will be granted only if the Bureau of Small Business Enterprises agrees, for reasons stated in its concurrence document, that the Contractor has good cause to terminate or replace the DBE firm. Before transmitting to the Bureau of Small Business Enterprises any request to terminate and/or substitute a DBE subcontractor, the Contractor shall give notice in writing to the DBE subcontractor, with a copy to the Bureau, of its intent to request to terminate and/or substitute, and the reason for the request. The Contractor shall give the DBE five days to respond to the Contractor's notice. The DBE so notified shall advise the Bureau and the Contractor of the reasons, if any, why it objects to the proposed termination of its subcontract and why the Bureau should not approve the Contractor's action. If required in a particular case as a matter of public necessity, the Bureau may provide a response period shorter than five days.

For purposes of this paragraph, good cause includes the following circumstances:

- (1) The listed DBE subcontractor fails or refuses to execute a written contract;
- (2) The listed DBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the DBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the Contractor;
- (3) The listed DBE subcontractor fails or refuses to meet the Contractor's reasonable, nondiscriminatory bond requirements;
- (4) The listed DBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness:
- (5) The listed DBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant 2 CFR Parts 180, 215 and 1200 or applicable state law.

- (6) The Contractor has determined the listed DBE subcontractor is not a responsible contractor;
- (7) The listed DBE subcontractor voluntarily withdraws from the projects and provides written notice to the Contractor of its withdrawal;
- (8) The listed DBE is ineligible to receive DBE credit for the type of work required;
- (9) A DBE owner dies or becomes disabled with the result that the listed DBE subcontractor is unable to complete its work on the contract;
- (10) Other documented good cause that compels the termination of the DBE subcontractor. Provided, that good cause does not exist if the Contractor seeks to terminate a DBE it relied upon to obtain the contract so that the Contractor can self-perform the work for which the DBE contractor was engaged or so that the Contractor can substitute another DBE or non-DBE contractor after contract award.
 - When a DBE is terminated or fails to complete its work on the Contract for any reason, the Contractor shall make a good faith effort to find another DBE to substitute for the original DBE to perform at least the same amount of work under the contract as the terminated DBE to the extent needed to meet the established Contract goal. The good faith efforts shall be documented by the Contractor. If the Department requests documentation under this provision, the Contractor shall submit the documentation within seven days, which may be extended for an additional seven days if necessary at the request of the Contractor. The Department will provide a written determination to the Contractor stating whether or not good faith efforts have been demonstrated.
- (f) FINAL PAYMENT. After the performance of the final item of work or delivery of material by a DBE and final payment therefore to the DBE by the Contractor, but not later than 30 calendar days after payment has been made by the Department to the Contractor for such work or material, the Contractor shall submit a DBE Payment Agreement on Department form SBE 2115 to the Resident Engineer. If full and final payment has not been made to the DBE, the DBE Payment Agreement shall indicate whether a disagreement as to the payment required exists between the Contractor and the DBE or if the Contractor believes the work has not been satisfactorily completed. If the Contractor does not have the full amount of work indicated in the Utilization Plan performed by the DBE companies indicated in the Utilization Plan and after good faith efforts are reviewed, the Department may deduct from contract payments to the Contractor the amount of the goal not achieved as liquidated and ascertained damages. The Contractor may request an administrative reconsideration of any amount deducted as damages pursuant to subsection (h) of this part.
- (g) <u>ENFORCEMENT</u>. The Department reserves the right to withhold payment to the Contractor to enforce the provisions of this Special Provision. Final payment shall not be

made on the contract until such time as the Contractor submits sufficient documentation demonstrating achievement of the goal in accordance with this Special Provision or after liquidated damages have been determined and collected.

(h) <u>RECONSIDERATION</u>. Notwithstanding any other provision of the contract, including but not limited to Article 109.09 of the Standard Specifications, the Contractor may request administrative reconsideration of a decision to deduct the amount of the goal not achieved as liquidated damages. A request to reconsider shall be delivered to the Contract Compliance Section and shall be handled and considered in the same manner as set forth in paragraph (c) of "Good Faith Effort Procedures" of this Special Provision, except a final decision that a good faith effort was not made during contract performance to achieve the goal agreed to in the Utilization Plan shall be the final administrative decision of the Department. The result of the reconsideration process is not administratively appealable to the U.S. Department of Transportation.

PORTLAND CEMENT CONCRETE - HAUL TIME (BDE)

Effective: July 1, 2020

Revise Article 1020.11(a)(7) of the Standard Specifications to read:

"(7) Haul Time. Haul time shall begin when the delivery ticket is stamped. The delivery ticket shall be stamped no later than five minutes after the addition of the mixing water to the cement, or after the addition of the cement to the aggregate when the combined aggregates contain free moisture in excess of two percent by weight (mass). If more than one batch is required for charging a truck using a stationary mixer, the time of haul shall start with mixing of the first batch. Haul time shall end when the truck is emptied for incorporation of the concrete into the work. The maximum haul time shall be as follows.

| Concrete Temperature at Point of Discharge, | Maximum Haul Time ^{1/} (minutes) | | | | | |
|---------------------------------------------|----------------------------------------------|----------------------|--|--|--|--|
| °F (°C) | Truck Mixer or Truck Agitator | Nonagitator Truck | | | | |
| 50 - 64 (10 - 17.5) | 90 | 45 | | | | |
| > 64 (> 17.5) - without retarder | 60 | 30 | | | | |
| > 64 (> 17.5) - with retarder | 90 | 45 | | | | |

1/ To encourage start-up testing for mix adjustments at the plant, the first two trucks will be allowed an additional 15 minutes haul time whenever such testing is performed.

For a mixture which is not mixed on the jobsite, a delivery ticket shall be required for each load. The following information shall be recorded on each delivery ticket: (1) ticket number; (2) name of producer and plant location; (3) contract number; (4) name of Contractor; (5) stamped date and time batched; (6) truck number; (7) quantity batched; (8) amount of admixture(s) in the batch; (9) amount of water in the batch; and (10) Department mix design number.

For concrete mixed in jobsite stationary mixers, the above delivery ticket may be waived, but a method of verifying the haul time shall be established to the satisfaction of the Engineer."

SUBCONTRACTOR AND DBE PAYMENT REPORTING (BDE)

Effective: April 2, 2018

Add the following to Section 109 of the Standard Specifications.

"109.14 Subcontractor and Disadvantaged Business Enterprise Payment Reporting. The Contractor shall report all payments made to the following parties:

- (a) first tier subcontractors;
- (b) lower tier subcontractors affecting disadvantaged business enterprise (DBE) goal credit;
- (c) material suppliers or trucking firms that are part of the Contractor's submitted DBE utilization plan.

The report shall be made through the Department's on-line subcontractor payment reporting system within 21 days of making the payment."

SUBCONTRACTOR MOBILIZATION PAYMENTS (BDE)

Effective: November 2, 2017

Revised: April 1, 2019

Replace the second paragraph of Article 109.12 of the Standard Specifications with the

following:

"This mobilization payment shall be made at least seven days prior to the subcontractor starting work. The amount paid shall be at the following percentage of the amount of the subcontract reported on form BC 260A submitted for the approval of the subcontractor's work.

| Value of Subcontract Reported on Form BC 260A | Mobilization Percentage |
|-----------------------------------------------|-------------------------|
| Less than \$10,000 | 25% |
| \$10,000 to less than \$20,000 | 20% |
| \$20,000 to less than \$40,000 | 18% |
| \$40,000 to less than \$60,000 | 16% |
| \$60,000 to less than \$80,000 | 14% |
| \$80,000 to less than \$100,000 | 12% |
| \$100,000 to less than \$250,000 | 10% |
| \$250,000 to less than \$500,000 | 9% |
| \$500,000 to \$750,000 | 8% |
| Over \$750,000 | 7%" |

WEEKLY DBE TRUCKING REPORTS (BDE)

Effective: June 2, 2012 Revised: November 1, 2021

The Contractor shall submit a weekly report of Disadvantaged Business Enterprise (DBE) trucks hired by the Contractor or subcontractors (i.e. not owned by the Contractor or subcontractors) that are used for DBE goal credit.

The report shall be submitted to the Engineer on Department form "SBE 723" within ten business days following the reporting period. The reporting period shall be Sunday through Saturday for each week reportable trucking activities occur.

Any costs associated with providing weekly DBE trucking reports shall be considered as included in the contract unit prices bid for the various items of work involved and no additional compensation will be allowed.

WORKING DAYS (BDE)

Effective: January 1, 2002

The Contractor shall complete the work within 150 working days.

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Nonsegregated 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. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

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

I. GENERAL

 Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (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).

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.

Form FHWA-1273 must be included in all Federal-aid design-build 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). 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 bid proposal or request for proposal 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).

- 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.
- 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. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 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 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, 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 60-1.4(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 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, 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 230, 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 (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 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 35 and 29 CFR 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.
- 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, 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 who 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.
- 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, national origin, age or disability. The following procedures shall be followed:

- a. The contractor will conduct periodic inspections of project sites to insure 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. 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, 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, 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 there under. 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, 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 and 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. Assurance Required by 49 CFR 26.13(b):

- a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.
- b. The contractor 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 contracting agency deems appropriate.
- 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 non-minority 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 \$10,000 or more.

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, 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). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

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 FHWA-1273 format and FHWA program requirements.

1. Minimum wages

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, Employment Standards Administration, 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 Wage and Hour Administrator for determination. The Wage and Hour 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

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

- 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.
- (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 at http://www.dol.gov/esa/whd/forms/wh347instr.htm or its successor 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 §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, 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 Regulations, 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 section 1001 of title 18 and section 231 of title 31 of the United States Code.
- 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

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. 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.
- **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 Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.
- **9. Disputes concerning labor standards.** 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.

- 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

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.

- 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 of \$10 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.
- 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.
- **4. Subcontracts.** The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (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.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

- 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" 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:
- (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.
- 2. 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. 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.
- 5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

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 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.
- 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 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).
- 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 Federal-aid 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 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 1, 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

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

- 1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.
- 2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

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.

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.
- 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.
- 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.
- 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 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee 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 grantee or subgrantee 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.
- 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.
- 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. 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 Excluded Parties List System website (https://www.epls.gov/), which is compiled by the General Services Administration.
- 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.

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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) 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;
- (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: 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.
- b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. 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)

- a. By signing and submitting this proposal, the prospective lower tier 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.
- 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 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 grantee or subgrantee 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 grantee or subgrantee 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.
- 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.
- 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 Excluded Parties List System website (https://www.epls.gov/), which is compiled by the General Services Administration.
- 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.

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 is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.
- 2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

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This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

- 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.

ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS

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.

Contract Provision - Cargo Preference Requirements

In accordance with Title 46 CFR § 381.7 (b), the contractor 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.
- (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 Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.
- (3) To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this contract."

Provisions (1) and (2) apply to materials or equipment that are acquired solely for the project. The two provisions do not apply to goods or materials that come into inventories independent of the project, such as shipments of Portland cement, asphalt cement, or aggregates, when industry suppliers and contractors use these materials to replenish existing inventories.