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Letting January 20, 2023

Notice to Bidders, Specifications and Proposal



Contract No. 61J18
COOK County
Section 17-00034-01-BT (Park Ridge)
Route DES PLAINES RIVER TRAIL
Project MAQA-510 ()
District 1 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. January 20, 2023 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. 61J18
COOK County
Section 17-00034-01-BT (Park Ridge)
Project MAQA-510 ()
Route DES PLAINES RIVER TRAIL
District 1 Construction Funds

Construct Des Plaines River Trail from north of Touhy Avenue to Devon Avenue in Park Ridge.

- 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 61J18

INDEX FOR SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2023

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

ERRATA Standard Specifications for Road and Bridge Construction

(Adopted 1-1-22) (Revised 1-1-23)

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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.

	ile <u>P</u> me	<u>g.</u>	Special Provision Title	Effective	Revised
		33 🖂	Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2022
		35 🖾	Aggregate Subgrade Improvement	April 1, 2012	April 1, 2022
80	192		Automated Flagger Assistance Device	Jan. 1, 2008	
)173		Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2017
)426		Bituminous Surface Treatment with Fog Seal	Jan. 1, 2020	Jan. 1, 2022
		38 🗵	Blended Finely Divided Minerals	April 1, 2021	
	241	닏	Bridge Demolition Debris	July 1, 2009	
)53I	닏	Building Removal	Sept. 1, 1990	Aug. 1, 2022
	261		Building Removal with Asbestos Abatement	Sept. 1, 1990	Aug. 1, 2022
		39 🔀	Compensable Delay Costs	June 2, 2017	April 1, 2019
	198	님	Completion Date (via calendar days)	April 1, 2008	
)199)261 14	43	Completion Date (via calendar days) Plus Working Days Construction Air Quality – Diesel Retrofit	April 1, 2008 June 1, 2010	Nov. 1, 2014
		43 ⊠ 46 ⊠	Corrugated Plastic Pipe (Culvert and Storm Sewer)	Jan. 1, 2021	1107. 1, 2014
		58	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	Mar. 2, 2019
)229		Fuel Cost Adjustment	April 1, 2009	Aug. 1, 2017
)447	H	Grading and Shaping Ditches	Jan 1, 2023	Aug. 1, 2017
)433	Ħ	Green Preformed Thermoplastic Pavement Markings	Jan. 1, 2021	Jan. 1, 2022
)443	Ħ	High Tension Cable Median Barrier Removal	April 1, 2022	
)446		Hot-Mix Asphalt – Longitudinal Joint Sealant	Nov. 1, 2022	
)438		Illinois Works Apprenticeship Initiative – State Funded Contracts	June 2, 2021	Sept. 2, 2021
80	045		Material Transfer Device	June 15, 1999	Jan. 1, 2022
		68 🗵	Performance Graded Asphalt Binder	Jan 1, 2023	
	1261		Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2022
		73	Seeding	Nov. 1, 2022	
		79 🔀	Source of Supply and Quality Requirements	Jan. 2, 2023	1 4 0000
	340	님	Speed Display Trailer	April 2, 2014	Jan. 1, 2022
)127)397 18	80 🖾	Steel Cost Adjustment	April 2, 2014 April 2, 2018	Jan. 1, 2022
		81	Subcontractor and DBE Payment Reporting Subcontractor Mobilization Payments	Nov. 2, 2017	April 1, 2019
		82	Submission of Payroll Records	April 1, 2021	Nov. 1, 2022
)435		Surface Testing of Pavements – IRI	Jan. 1, 2021	Jan. 1, 2023
)410	Ħ	Traffic Spotters	Jan. 1, 2019	0dm 1, 2020
		84 🖾	Training Special Provisions	Oct. 15, 1975	Sept. 2, 2021
)429		Ultra-Thin Bonded Wearing Course	April 1, 2020	Jan. 1, 2022
80)439 18	87 🖂	Vehicle and Equipment Warning Lights	Nov. 1, 2021	Nov. 1, 2022
)440		Waterproofing Membrane System	Nov. 1, 2021	
		88 🗵	Weekly DBE Trucking Reports	June 2, 2012	Nov. 1, 2021
		89 🔀	Work Zone Traffic Control Devices	Mar. 2, 2020	
80	0071 19	91 🛚	Working Days	Jan. 1, 2002	

STATE OF ILLINOIS

SPECIAL PROVISIONS

The following Special Provisions supplement the specifications listed in the table below which apply to and govern the proposed improvement designated as Section 17-00034-01-BT, Contract Number 61J18 and in case of conflict with any part or parts of said specifications, the said Special Provisions shall take precedence and govern.

SPECIFICATION	ADOPTED/DATED
Standard Specifications for Road and Bridge Construction	January 1, 2022
Manual on Uniform Traffic Control Devices for Streets and Highways	2009 Edition with Revisions 1 and 2
Illinois Manual on Uniform Traffic Control Devices for Streets and Highways" (ILMUTCD)	Current Edition
Supplemental Specifications and Recurring Special Provisions (indicated on the Check Sheet included herein)	January 1, 2023
Manual of Test Procedure of Materials	Current
Standard Specifications for Water & Sewer Main Construction in Illinois	8 th Edition, 2020

LOCATION OF IMPROVEMENT

Segment 1 of the Des Plaines River Trail is located in the City of Park Ridge, Cook County. The improvement on Des Plaines River Trail begins west of the intersection at Devon Avenue and Dee Road, 235 feet south of Devon Avenue. The improvement ends on the west side of Talcott Road, 460 feet North of Touhy Avenue. The total gross length is 7722.23 feet (1.46 miles).

DESCRIPTION OF IMPROVEMENT

The work consists of the construction of an aggregate shared-use path, a segmental concrete block wall, portland cement concrete sidewalk, earth excavation, portland cement concrete curb and gutter, seeding, sodding, topsoil, landscaping, and pedestrian traffic signal enhancements, as well as all incidental and collateral work necessary to complete the project as shown on the plans and as described herein.

AVAILABLE REPORTS

☐ No project speci	ific reports were prepared.
When applicable, the Bidders' reference to	ne following checked reports and record information is available for upon request:
☐ Record s	tructural plans
□ Prelimina	ary Site Investigation (IDOT PSI)
□ Prelimina	ary Environmental Site Assessment (IDOT PESA)
☐ Prelimina	ary Site Investigation (PSI) – Local
□ Prelimina	ary Environmental Site Assessment (PESA) – Local
⊠ Soils/Geo	otechnical Report
⊠ Boring Lo	ogs
□ Pavemen	t Cores
□ Location	Drainage Study (LDS)
☐ Hydraulic	Report
☐ Noise An	alysis
	Local PIP Evaluation Report/LPC 663 Testing FPDCC Tree Protection and Preservation Manual FPDCC Tree Mitigation Plan

Those seeking these reports should request access from:

Mark B. Thomas, PE Christopher B. Burke Engineering, Ltd. 9575 W. Higgins Road, Suite 600 Rosemont, IL 60018 (847) 823-0500 mthomas@cbbel.com

AGGREGATE SURFACE COURSE, TYPE B 3" (SPECIAL)

General: This work shall consist of all materials, tools, equipment, and labor necessary to provide a trail surface, suitable for multiple uses. This work shall consist of surfacing new trails or refurbishing the surfaces of existing trails that may be damaged during the course of construction, by furnishing, placing, shaping, and compacting limestone screenings, conforming to the applicable Articles of Section 402 of the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction. Exceptions are that the additions of moisture at the point of production of the aggregate surface may be required to obtain maximum density of the aggregate surface. This shall be at the direction of the Owner's Project Representative. The Limestone Trail Screenings shall be compacted as required by the Owner's Project Representative. No extra payment shall be due the Contractor for complying with the aforementioned requirements.

Materials: The crushed limestone screenings shall conform to IDOT gradation FA-21 and meet requirements of section 1003 of the Standard Specifications.

Construction Requirements: Before the aggregate surface is placed on the trail, any ruts, caked earth, or other undesirable surface matter will be removed with the blade of a motor grader. Before the aggregate surface is deposited on the prepared trail, it shall contain sufficient moisture to provide satisfactory compaction. The aggregate surface shall be placed with a spreading and finishing machine meeting the requirements of Section 1102.03. The aggregate surface shall be compacted with a roller to the specified thickness, to the satisfaction of the Owner's Project Representative. If the moisture content of the material is not such as to permit satisfactory compaction, water shall be added in such a quantity so that satisfactory compaction can be obtained. If any subgrade material is worked into the surface aggregate during the finishing operation, all granular material within the affected areas shall be removed and replaced with new aggregate. The limestone screenings shall be placed to the depth and design grade shown on the Plans and sloped at a cross slope meeting ADA requirements and providing positive drainage.

Method of Measurement and Payment: This work shall be measured for payment in square yards and paid for at the contract unit price per SQUARE YARDS for AGGREGATE SURFACE COURSE, TYPE B 3" (SPECIAL), for material satisfactorily installed and accepted, which price shall include trail preparation and furnishing, placing, shaping and compacting the aggregate surface. Water required to be added for compaction will not be measured for payment but shall be considered included in the cost of the item of work being constructed. In the case that additional repair is needed for the trail base, AGGREGATE BASE COURSE, TYPE B shall be paid for separately.

CHAIN LINK FENCE REMOVAL

<u>Description.</u> This item consists of removing and disposing of existing fence at locations as shown on the plans and where directed by the Engineer. This work shall also include the removal and disposal of gates. The Contractor shall exercise care so as not to damage fence and gates that are to remain. Existing posts shall be pulled and the resulting hole backfilled with sand. Concrete foundations shall also be disposed of off-site.

<u>Basis of Payment.</u> This work will be paid for at the contract unit price per foot for CHAIN LINK FENCE REMOVAL.

CONSTRUCTION STAGING THROUGH THE FOREST PRESERVE

The Contractor shall Stage construction of the path through the Forest Preserve as defined in the EROSION CONTROL STAGING DETAIL sheet in the plans. Perimeter erosion barrier will be installed per plan and vehicles, equipment, or materials shall not be allowed outside of the work zone defined by the perimeter erosion barrier. The Contractor shall inform all crews daily of this requirement.

In Stage 3, the perimeter erosion barrier can be removed after temporary seeding and temporary erosion control blanket has been installed.

The placement of final topsoil will be placed in Stage 4 using the aggregate base course placed in Stage 2 as a working platform. The final aggregate surface will be constructed after the final topsoil has been placed. Vehicles, equipment, or materials shall not be allowed beyond the final limits of construction. Should the Contractor violate this requirement as determined by the Forest Preserve District of Cook County (FPDCC) with evidence of vehicles, equipment, or materials having been outside of the final construction limits, the Contractor shall be liable to the FPDCC as defined in the FPDCC Tree Protection and Preservation Manual, Section II: Construction, Remedies, not as a penalty but as liquidated and ascertained damages. Such damages may be deducted by the Department from any monies due the Contractor and paid to the Forest Preserve District of Cook County. These damages shall apply during the contract time and during any extensions of the contract time.

The FPDCC has tentatively identified areas that could be used by the Contractor as turnaround locations. These areas have been marked in the plans on sheets 36 and 47. Turnaround areas must be approved by the FPDCC representative before any disturbance beyond the proposed perimeter erosion barrier can commence. If the Contractor desires to utilize these areas, the ground beyond the limits of the proposed perimeter erosion barrier will be protected by geotextile fabric covered by 4" of mulch and a timber mat cabled together as shown in the Temporary Wetland Crossing detail in the plans. The turnaround area will be surrounded by perimeter erosion barrier, and high visibility temporary fence. Once work is completed, all items identified here will be removed and the area will be seeded. This work will not be paid for separately but will be included in the cost of the adjacent path pay items.

SEEDING, CLASS 4 (MODIFIED)

This work shall consist of preparing the seed bed, placing the seed, and other materials required in the seeding operation in areas as shown in the plans.

All work, materials and equipment shall conform to Section 250 and 1081 of the Standard Specifications except as modified herein.

The Class 4 (Modified) seed mixture shall be supplied in pounds of Pure Live Seed. All native seed species will be local genotype and verified that original seed collection source must originate from a radius of 200 miles from the project site. Fertilizer is not required.

Article 250.07 Seeding Mixtures – Add the following to Table 1:

CLASS - TY	PE SEEDS	PURE LIVE SEED	
LB/ACRE 4 (Modified)	Γall Native Grass	10.0	
	Andropogon gerardii		
	(Big Bluestem)	1.0	
	Bouteloua curtipendula	0.0	
	(Side Oats Grama)	2.0	
	Carex bicknellii		0.5
	(Copper-Shouldered Oval Sedge) Elymus canadensis		0.5
	(Canada Wild Rye)	1.0	
	Koeleria macrantha	1.0	
	(June Grass)	0.5	
	Panicum virgatum	0.0	
	(Switchgrass)	1.5	
	Schizachyrium scoparium		
	(Little Bluestem)	2.5	
	Sorghastrum nutans		
	(Indian Grass)	1.0	
Temporary C	over	20 (lb/ac	re)
Fall/Winter	Elymus canadensis		
. all, vviiltoi.	(Canada Wild Rye)	3.0	
Spring:	Avena sativa	0.0	
1 3	(Annual Oats)	20.0	
	,		

Variation in the Class 3, 4, 5, or 6 seed quantities or varieties may be allowed in the event of a crop failure or other unforeseen conditions. Quantities of proposed substitutions shall be determined by seed count. The Contractor shall provide for the approval of the Engineer

a written description of the proposed changes to the Class 3, 4, 5, or 6 Mixture(s), the reasons for the change, and the name of the seed suppliers who were contacted in an effort to obtain the specified species. Adjustments will be made at no cost to the contract. Approval of substitutes shall in no way waive any requirements of the contract

Seeding Time:

Seeding shall be completed between October 15 to April 30 but not when raining or when the ground is covered with snow, unless prior written approval is received from Engineer. No seed shall be sown when the ground is not in proper condition for seeding. Seeding done outside of this time frame will not be measured for payment unless approved in writing by Engineer in advance.

The Contractor shall schedule work so that final grade is achieved during the specified seeding times. Any seeding must be incorporated into the soil surface, but no deeper than ¼ inch, such as by rangeland type seed drill, harrow, hand rake, or other method approved by the Engineer.

Bagging, Transporting, and Storing Seed:

Seed mixtures of the specified classes shall be thoroughly mixed, labeled ad bagged by the supplier. Purity and germination tests no older than twelve months old must be submitted for all seed supplied to verify quantities of bulk seed required to achieve LB PLS specified.

Seed shall be thoroughly mixed, labeled and bagged by the supplier. Seed shall be bagged, transported, and stored in such a manner to protect it from damage and to maintain the viability of the seed. All seed mixtures shall be brought to the site in clearly labeled and unopened bags.

Seed shall be adequately protected from rain, temperature extremes, rodents, insects, and other such factors that could adversely affect seed viability during transport or while being stored prior to planting. Bags of seed that are leaking, wet, moldy, or otherwise damaged shall be rejected and promptly removed from the site of work. Prior to application, the Engineer must approve the seed mix in the bags on site.

Layout of Seeding:

The Contractor shall be responsible for filed verifying the acreage of the area(s) to be seeded. The amount of seed ordered shall match the area(s) to be seeded during the pending planting season. A minimum of 30 days shall be allowed for seed acquisition, testing, and inspection.

The Contractor shall demarcate all areas to be seeded and estimate quantities of each area to determine the quantity of seed necessary to achieve the specified seed rate per acre. The Contractor shall delineate the perimeter of the seedbed with wooden lathe. The wooden lathe shall remain in place. The contractor shall provide a minimum of seven calendar days notice to the Engineer to allow for review and approval of seeding layout.

Inspection:

The Engineer must witness the delivery of seed with original labels attached in the field. A bag ticket must be affixed to each bag of seed upon delivery, and shall not be removed until the Engineer has reviewed and accepted each bag of seed. The label shall bear the dealer's guarantee of mixture and year grown, purity and germination, and date of test.

Seed Bed Preparation:

All area(s) to be seeded must be properly prepared prior to planting seed.

Bare earth seeding refers to sowing seed upon soils with no existing vegetative cover. In areas with existing vegetation, the vegetation shall be eradicated as specified or as directed by the Engineer. Seed bed preparation shall not be started until all requirements of Section 212 have been completed. The area to be seeded shall be worked to a minimum depth of 3 in. (75 mm) with a disk, tiller, box rake, or other equipment approved by the Engineer. In areas with heavy soils, tilling or power raking will be required to achieve the proper depth. All soil clods shall be reduced to a size not larger than ½ in. (13 mm) in the largest dimension to create a friable, pulverized topsoil surface suitable for seeding. Dragging the soil surface with the blade of a loader or dozer will not be an acceptable method of seed bed preparation. The prepared surface shall be relatively free of weeds, stones, roots, sticks, debris, rills, gullies, crusting, caking, and compaction. No seed shall be sown until the seed bed has been approved by the Engineer.

Seeding Methods:

No seed shall be sown when wind gusts exceed 25 miles per hour or when the ground is not in a proper condition for seeding, nor shall any seed be sown until the purity test has been completed for the seeds to be used, and said tests show that the seed meets the noxious weed seed requirements. All equipment shall be approved by the Engineer prior to being used. Prior to starting work, seeders shall be calibrated and adjusted to sow seeds at the required seeding rate. Equipment shall be operated in a manner to ensure complete coverage of the entire area to be seeded. The Engineer shall be notified 48 hours prior to beginning the seeding operations so that the Engineer may determine by trial runs that a calibration of the seeder will provide uniform distribution at the specified rate per acre.

Seeding Classes 3, 4, 5, and 6 shall be sown with a broadcast seeder or a rangeland type seed drill.

Hand broadcasting and other methods of sowing seed will be allowed in special circumstances as approved by the Engineer. Special circumstances include but are not necessarily limited to steep slopes (over 1:3 (V:H)), inaccessible areas, wet areas, or other unique situations where the use of the specified equipment is not possible.

Method of Measurement:

SEEDING, CLASS 4 (MODIFIED) will be measured for payment in acres of surface area of seeding for the seed mix type specified.

Basis of Payment: SEEDING, CLASS 4 (MODIFIED) shall be paid at the Contract unit price per acre. Payment shall be in full for seed, planting, and furnishing all labor to complete the work as set forth above.

TREE REMOVAL

All required tree removal to construct the project will be completed by the Forest Preserve District of Cook County prior to April 1, 2023. The tree trunks shall be completely removed, but the stumps will be left in the ground. Information about the tree removal schedule can be obtained by contacting Pam Sielski, Landscape Architect at 708-771-1355 or pamela.sielski@cookcountyil.gov. The Contractor shall be responsible for removal of the stumps left behind after the tree removal. See STUMP REMOVAL ONLY special provision for more information.

STUMP REMOVAL ONLY

<u>Description</u>. This item shall consist of the removal and disposal of existing stumps.

<u>Requirements.</u> All stumps marked for removal by the Engineer shall be removed to a depth of not less than 12 inches below the elevation of the subgrade, the finished earth surface, or the ground line. Removed stumps shall be disposed of in accordance with Article 202.03 of the Standard Specifications.

Method of Measurement. This work will be measured for payment in units as defined in Article 201.10 (b) (1) of the Standard Specifications.

<u>Basis of Payment.</u> This item will be paid for at the contract unit price per unit for STUMP REMOVAL ONLY.

EROSION CONTROL BLANKET, SPECIAL (WILDLIFE SAFE)

This Special Provision revises Section 251 of the Standard Specifications for Road and Bridge Construction to eliminate the use of Excelsior Blanket for Erosion Control Blanket. This work shall consist of furnishing, transporting, and placing 100 % biodegradable erosion control blanket over seeded areas as detailed on the plans, according to Section 251 except as modified herein.

Delete Article 251.04(a) Excelsior Blanket.

Delete the first paragraph of Article 1081.10 (b) Knitted Straw Mat and substitute the following:

Knitted Straw Mat. Knitted straw mat shall be a machine-produced mat of 100% clean, weed free agricultural straw. The blanket shall be of consistent thickness with the straw evenly distributed over the entire area of the blanket with a functional longevity of up to 12 months. The blanket shall be covered on top and bottom sides with a 100% biodegradable woven natural organic fiber netting. No plastic netting will be allowed. Netting shall be "leno-weave" with movable joints (not fixed or welded). The netting consists of machine directional strands formed from two intertwined yarns with cross directional strands interwoven through the twisted machine strands to form an approximate 0.50 x 1.0 - inch (1.27 x 2.54 cm) mesh. The blanket shall be sewn together with flexible joints on 1.50 - inch (3.81 cm) centers with biodegradable thread. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2 - 5 inches (5 - 12.5cm) from the edge) as an overlap guide for adjacent mats.

Delete the first paragraph of Article 1081.10 (c) (2) Knitted Straw Mat and substitute the following:

Knitted Straw Mat. The blanket shall be machine-produced 100% biodegradable blanket, which contains 70% agricultural straw and 30% coconut fiber with a functional longevity of up to 18 months. The blanket shall be of consistent thickness with the straw and coconut evenly distributed over the entire area of the mat. The blanket shall be covered on the top and bottom sides with 100% biodegradable woven natural organic fiber netting. The top netting shall be "leno-weave," with movable joints (not fixed or welded). The netting consists of machine directional strands formed from two intertwined yarns with cross directional strands interwoven through the twisted machine strands to form an approximate 0.50 x 1.0 - inch(1.27 x 2.54 cm) mesh. The blanket shall be sewn together on 1.50 - inch (3.81 cm) centers with degradable thread. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2 - 5 inches (5 - 12.5cm) from the edge) as an overlap guide for adjacent mats.

Delete Article 1081.10(d) Wire Staples.

Add the following to Article 1081.10 (e) Wood Stakes:

Biodegradable plastic stakes will be allowed. The biodegradable plastic anchor shall be approximately 6 - inches (15.24 cm) in length. No metal wire stakes will be allowed.

Delete 251.06 Method of Measurement (b) Measured Quantities and replace with

Measured Quantities. Erosion control blanket, heavy duty erosion control blanket, and erosion control blanket, special (Wildlife Safe) will be measured for payment in square yards.

Delete Article 251.07 Basis of Payment and substitute the following:

Basis of Payment. This work will be paid for at the contract unit price per square yard for EROSION CONTROL BLANKET (SPECIAL)

HIGH VISIBILITY TEMPORARY FENCE

Description. This work consists of furnishing, installing, maintaining, and removing from the site high visibility temporary fences erected for protection of the wetlands identified in the plans. This work will be performed in accordance with the applicable portions of Section 201 of the Standard Specifications except as modified herein and as directed by the Engineer.

Materials. High visibility temporary fence shall be orange plastic poly type snow fence installed on steel posts. Wood lath fence or other types that do not provide a highly visible barrier will not be approved.

Construction Requirements. The Contractor shall erect high visibility temporary fence at the locations shown on the plans or as directed by the Engineer. The Contractor is prohibited from entering the wetland site bounded by high visibility temporary fence. High visibility temporary fence shall be properly maintained and shall be removed by the Contractor at the time of final restoration, unless removal is directed by Engineer. All temporary fence materials shall be legally disposed of at a location off-site.

Method of Measurement. This work will be measured for payment in feet of HIGH VISIBILITY TEMPORARY FENCE installed in accordance with these requirements. Measurement will be made along the top of fence in a straight line from one post to the next.

Basis of Payment. This work will be paid for at the contract unit price per foot for HIGH VISIBILITY TEMPORARY FENCE, which price shall constitute payment in full for furnishing, placing, repairing, removing, and disposing of the temporary fence and for all labor, materials, equipment and incidentals required to complete the work as specified herein.

KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC (LANE CLOSURES ONLY)

Effective: January 22, 2003 Revised: August 10, 2017

The Contractor shall provide the necessary traffic control devices to warn the public and to delineate the work zone as required in these Special Provisions, the Standard Specifications, the State Standards, and the District Details.

Arterial lane closures shall be in accordance with the Standard Specifications, Highway Standards, District Details, and the direction of the Engineer. The Contractor shall request and gain approval from the Engineer seventy–two (72) hours in advance of all long-term (24 hrs. or longer) lane closures.

Arterial lane closures not shown in the staging plans will not be permitted during **peak traffic volume hours**.

Peak traffic volume hours are defined as weekdays (Monday through Friday) from 6:00 AM to 8:30 AM and 4:30 PM to 6:00 PM.

Private vehicles shall not be parked in the work zone. Contractor's equipment and/or vehicles shall not be parked on the shoulders or in the median during non-working hours. The parking of equipment and/or vehicles on State right-of-way will only be permitted at locations approved by the Engineer in accordance with Articles 701.08 and 701.11 of the Standard Specifications.

Should the Contractor fail to completely open and keep open all the traffic lanes to traffic in accordance with the limitations specified above, the Contractor shall be liable to the Department for the amount of:

One lane or ramp blocked = \$1,000

Two lanes blocked = \$2,500

Not as a penalty but as liquidated and ascertained damages for each and every 15 minute interval or a portion thereof that a lane is blocked outside the allowable time limitations. Such damages may be deducted by the Department from any monies due the Contractor. These damages shall apply during the contract time and during any extensions of the contract time.

MAINTENANCE OF ROADWAYS (D1)

Effective: September 30, 1985 Revised: November 1, 1996

Beginning on the date that work begins on this project, the Contractor shall assume responsibility for normal maintenance of all existing roadways within the limits of the improvement. This normal maintenance shall include all repair work deemed necessary by the Engineer but shall not include snow removal operations. Traffic control and protection for maintenance of roadways will be provided by the Contractor as required by the Engineer.

If items of work have not been provided in the contract, or otherwise specified for payment, such items, including the accompanying traffic control and protection required by the Engineer, will be paid for in accordance with Article 109.04 of the Standard Specifications.

PUBLIC CONVENIENCE AND SAFETY (D1)

Effective: May 1, 2012 Revised: July 15, 2012

Add the following to the end of the fourth paragraph of Article 107.09:

"If the holiday is on a Saturday or Sunday, and is legally observed on a Friday or Monday, the length of Holiday Period for Monday or Friday shall apply."

Add the following sentence after the Holiday Period table in the fourth paragraph of Article 107.09:

"The Length of Holiday Period for Thanksgiving shall be from 5:00 AM the Wednesday prior to 11:59 PM the Sunday After"

Delete the fifth paragraph of Article 107.09 of the Standard Specifications:

"On weekends, excluding holidays, roadways with Average Daily Traffic of 25,000 or greater, all lanes shall be open to traffic from 3:00 P.M. Friday to midnight Sunday except where structure construction or major rehabilitation makes it impractical."

SAFETY FENCE

<u>Description</u>. This work shall consist of constructing a SAFETY FENCE in accordance with applicable portions of Sections 507 and 641, as detailed in the plans, as directed by the Engineer, and as specified herein.

<u>Materials.</u> The posts and rails shall comply with the requirements of Section 1007 for No. 1 Dense SR 1550 F for southern pine or No. 1 Dense 1400 F for Douglas fir. All lumber shall be sound and free from excessive splitting or deterioration. Dimensions shown on the plans are surfaced (S4S) lumber. After erection of the fence, the contractor shall apply two coats of a commercially available water seal for treated lumber meeting the approval of the Engineer.

Hardware shall include all necessary fasteners and appurtenances for construction of the fence and shall be according to Article 1006.17.

<u>Construction Requirements.</u> Wood fence construction shall conform to the applicable portions of Sections 507 and 641. the backfill for the posts shall be CA 6, CA 10, or CA 12 aggregate according to Article 1004.01. Backfill shall be thoroughly compacted, meeting the approval of the Engineer.

<u>Method of Measurement.</u> The safety fence will be measured for payment along the top of the fence from center to center of end posts.

<u>Basis of Payment.</u> This work will be measured and paid for at the contract unit price per linear foot for SAFETY FENCE, which price shall be payment in full for all material, labor and any other items required to complete the work.

STABILIZED CONSTRUCTION ENTRANCE

Description. This work consists of the construction and maintenance of an aggregate stabilized construction entrance for accessing the construction zone. The entrances shall be placed at locations as shown on the plans or as directed by the Engineer.

Construction Requirements. Stabilized construction entrances shall consist of 12 inches of CA-1 Aggregate placed over filter fabric. The filter fabric shall be included with this pay item. The aggregate shall be crushed stone or crushed gravel.

All surface water flowing or diverted toward the construction entrance shall be piped across the entrance. Pipe used for this will not be paid for, but shall be included in the work. The stabilized construction entrance will have positive drainage away from the roadway.

Maintenance shall consist of placing additional aggregate of the same type and gradation as the base aggregate. Additional aggregate will not be paid for, but shall be included in the work.

After the stabilized construction entrances have served their purpose, the suitable aggregate shall be removed, and, at the direction and approval of the Engineer, utilized for embankment construction or otherwise disposed of as specified in Article 202.03 of the Standard Specifications.

Method of Measurement. Stabilized construction entrances will be measured for payment in place and the area computed in square yards.

Basis of Payment. This work will be paid for at the contract unit price per square yard for STABILIZED CONSTRUCTION ENTRANCE.

STATUS OF UTILITIES (D-1)

Effective: June 1, 2016 Revised: January 1, 2020

Utility companies and/or municipal owners located within the construction limits of this project have provided the following information regarding their facilities and the proposed improvements. The tables below contain a description of specific conflicts to be resolved and/or facilities which will require some action on the part of the Department's contractor to proceed with work. Each table entry includes an identification of the action necessary and, if applicable, the estimated duration required for the resolution.

UTILITIES TO BE ADJUSTED

Conflicts noted below have been identified by following the suggested staging plan included in the contract. The company has been notified of all conflicts and will be required to obtain the necessary permits to complete their work; in some instances, resolution will be a function of the construction staging. The responsible agency must relocate, or complete new installations as noted below; this work has been deemed necessary to be complete for the Department's contractor to then work in the stage under which the item has been listed.

Pre-Stage

STAGE/LOCATION	TYPE	DESCRIPTION	RESPONSIBLE AGENCY	DURATION OF TIME
159+06	Utility Pole	Utility pole to be relocated due to conflict with path	ComEd	14 Days Installation

Stage 1

STAGE/LOCATION	TYPE	DESCRIPTION	RESPONSIBLE AGENCY	DURATION OF TIME
100+43	Manhole	Manhole lid to be adjusted to match proposed path	Comcast	2 Days Installation
161+63	Manhole	Manhole lid to be adjusted to match proposed path	Comcast	2 Days Installation

Pre-Stage: 14 Days Total Installation Stage 1: 4 Days Total Installation

The following contact information is what was used during the preparation of the plans as provided by the Agency/Company responsible for resolution of the conflict.

Agency/Company Responsible to Resolve Conflict	Name of contact	Phone	E-mail address
ComEd	Dan Mendez	773-799-6111	Daniel.Mendez@comed.com
Comcast	Martha Gieras		martha_gieras@cable.comcast.com

UTILITIES TO BE WATCHED AND PROTECTED

The areas of concern noted below have been identified by following the suggested staging plan included for the contract. The information provided is not a comprehensive list of all remaining utilities, but those which during coordination were identified as ones which might require the Department's contractor to take into consideration when making the determination of the means and methods that would be required to construct the proposed improvement. In some instances, the contractor will be responsible to notify the owner in advance of the work to take place so necessary staffing on the owner's part can be secured.

Stage 1

STAGE/LOCATION	TYPE	DESCRIPTION	OWNER
157+90 RT	Manholes	Manholes shall be located, protected and/or adjusted to grade if necessary. Authorization may be obtained by contacting Mr. Cedric Robertson, Managing Engineer at (708) 588-3896.	MWRD
157+50 to 158+50	Underground Electric	Locate MWRD facilities prior to proceeding with construction activities and take extra caution to protect the safety and integrity of MWRD facilities.	MWRD
69+34 to 77+34	Underground Gas Main	A Nicor representative must be present when working within 25' of the pipeline. A valid JULIE must be called prior to working within 25' of the pipeline. Please coordinate all field activities with Charles Richard Zaucha (czaucha@southernco.com) at 224-423-9284.	Nicor
100+00 to 101+50	Underground Gas Main	A Nicor representative must be present when working within 25' of the pipeline. A valid JULIE must be called prior to working within 25' of the pipeline. Please coordinate all field activities with Charles Richard Zaucha (czaucha@southernco.com) at 224-423-9284.	Nicor
158+50 to 160+40	Underground Electric	Underground electric in vicinity of excavation	ComEd

The following contact information is what was used during the preparation of the plans as provided by the owner of the facility.

Agency/Company	Name of	Phone	E-mail address
Responsible to	contact		
Resolve Conflict			
AT&T	Janet Ahern	630-573-6414	G05256@att.com
AT&T Teleport	Bobby Akhter		ba3817@att.com
Comcast	Martha Gieras		martha_gieras@cable.comcast.com
Crown Castle	Nick Belinsky	724-416-2449	nicholas.belinsky@crowncastle.com
Century Link	Ben Pacocha		ben.pacocha@lumen.com
MCI/Verizon	Sandra	312-612-5216	scisneros@telecom-eng.com
	Cisneros		
ComEd	Dan Mendez	773-799-6111	Daniel.Mendez@comed.com
MWRD	Paul Sobanski	708-588-4080	
Nicor	Sakibul Forah	630-388-2903	sforah@southernco.com
Sprint	Steven Hughes		steven.hughes1@t-mobile.com
Zayo	John Ferraresi		john.ferraresi@zayo.com

The above represents the best information available to the Department and is included for the convenience of the bidder. The days required for conflict resolution should be considered in the bid as this information has also been factored into the timeline identified for the project when setting the completion date. The applicable portions of the Standard Specifications for Road and Bridge Construction shall apply.

Estimated duration of time provided above for the first conflicts identified will begin on the date of the executed contract regardless of the status of the utility relocations. The responsible agencies will be working toward resolving subsequent conflicts in conjunction with contractor activities in the number of days noted.

The estimated relocation duration must be part of the progress schedule submitted by the contractor. A utility kickoff meeting will be scheduled between the Department, the Department's contractor and the utility companies when necessary. The Department's contractor is responsible for contacting J.U.L.I.E. prior to all excavation work.

SUBBASE GRANULAR MATERIAL, TYPE B 6"

Description. This work shall consist of constructing a subbase granular material.

Materials. Material shall satisfy the requirements of Section 1004 of the Standard Specifications. Gradation number CA 1 shall be used.

Finishing and Maintenance of Subbase Granular Material. The subbase granular material shall be finished to the lines, grades, and cross sections shown on the plans, or as directed by the Engineer. The subbase aggregate material shall be maintained in a smooth and compacted condition.

Method of Measurement. This work will be measured for payment according to Article 311.08.

Basis of Payment. This work will be paid for at the contract unit price per square yard for SUBBASE GRANULAR MATERIAL, TYPE B 6".

Add the following to Section 1004 of the Standard Specifications:

1004.07 Coarse Aggregate for Subbase Granular Material, Type B 6". The aggregate shall be according to Article 1004.01 and the following.

- (a) Description. The coarse aggregate shall be crushed gravel, crushed stone, or crushed concrete.
- (b) Quality. The coarse aggregate shall consist of sound durable particles reasonably free of deleterious materials. Non-mechanically blended RAP may be allowed up to a maximum of 5.0 percent.

CONCRETE BARRIER MEDIAN

Description. This work shall consist of constructing a concrete barrier median. The median shall be depressed through the crosswalk area as shown on the plans.

Construction Requirements. The median shall be constructed in accordance with section 606 of the Standard Specifications. The median height shall match the existing median to remain in place. The minimum thickness of the median shall be 6". A 4" thick layer of aggregate base course, type B shall be included in the cost of the Concrete Barrier Median.

Method of Measurement. This work will be measured for payment in place and the area computed in square feet.

Basis of Payment. This work will be paid for at the contract unit price per square foot for CONCRETE BARRIER MEDIAN.

CONCRETE MEDIAN REMOVAL

Description. This work shall consist of removal and disposal of concrete barrier median.

Construction Requirements. The median shall be removed in accordance with section 440 of the Standard Specifications. Disposal of removed materials shall be in accordance with Article 202.03 of the Standard Specifications. All necessary sawcuts shall be included in the cost of Concrete Median Removal.

Method of Measurement. This work will be measured for payment in place and the area computed in square feet.

Basis of Payment. This work will be paid for at the contract unit price per square foot for CONCRETE MEDIAN REMOVAL.

TEMPORARY INFORMATION SIGNING

Effective: November 13, 1996 Revised: January 29, 2020

Description.

This work shall consist of furnishing, installing, maintaining, relocating for various states of construction and eventually removing temporary informational signs. Included in this item may be ground mount signs, skid mount signs, truss mount signs, bridge mount signs, and overlay sign panels which cover portions of existing signs.

Materials.

Materials shall be according to the following Articles of Section 1000 - Materials:

	<u>ltem</u>	Article/Section
a.)	Sign Base (Note 1)	1090
b.)	Sign Face (Note 2)	1091
c.)	Sign Legends	1091
d.)	Sign Supports	1093
e.)	Overlay Panels (Note 3)	1090.02

- Note 1. The Contractor may use 5/8 inch (16 mm) instead of 3/4 inch (19 mm) thick plywood.
- Note 2. The sign face material shall be in accordance with the Department's Fabrication of Highway Signs Policy.
- Note 3. The overlay panels shall be 0.08 inch (2 mm) thick.

GENERAL CONSTRUCTION REQUIREMENTS

Installation.

The sign sizes and legend sizes shall be verified by the Contractor prior to fabrication.

Signs which are placed along the roadway and/or within the construction zone shall be installed according to the requirements of Article 701.14 and Article 720.04. The signs shall be 7 ft (2.1 m) above the near edge of the pavement and shall be a minimum of 2 ft (600 mm) beyond the edge of the paved shoulder. A minimum of two (2) posts shall be used.

The attachment of temporary signs to existing bridges, sign structures or sign panels shall be approved by the Engineer. Any damage to the existing signs and/or structures due to the Contractor's operations shall be repaired or signs replaced, as determined by the Engineer, at the Contractor's expense.

Method of Measurement.

This work shall be measured for payment in square feet (square meters) edge to edge (horizontally and vertically).

All hardware, posts or skids, supports, bases for ground mounted signs, connections, which are required for mounting these signs will be included as part of this pay item.

Basis Of Payment.

This work shall be paid for at the contract unit price per square foot (square meter) for TEMPORARY INFORMATION SIGNING.

TOPSOIL FURNISH AND PLACE, SPECIAL

<u>Description.</u> This work shall consist of furnishing and placing topsoil. Minimum depth of topsoil shall be four inches.

<u>General.</u> This work shall be completed in accordance with Section 211 of the Standard Specifications.

<u>Basis of Payment.</u> This work shall be paid for at the contract unit price per cubic yard for TOPSOIL FURNISH AND PLACE, SPECIAL.

TRAFFIC CONTROL PLAN (D1)

Effective: September 30, 1985 Revised: January 1, 2007

Traffic Control shall be according to the applicable sections of the Standard Specifications, the Supplemental Specifications, the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways", any special details and Highway Standards contained in the plans, and the Special Provisions contained herein.

Special attention is called to Article 107.09 of the Standard Specifications and the following Highway Standards, Details, Quality Standard for Work Zone Traffic Control Devices, Recurring Special Provisions and Special Provisions contained herein, relating to traffic control.

The Contractor shall contact the District One Bureau of Traffic at least 72 hours in advance of beginning work.

<u>STANDARDS</u>: 701101-05, 701106-02, 701427-05, 701601-09, 701606-10, 701701-10, 701801-06, 701901-08

DETAILS:

TC-10 - TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

TC-13 – DISTRICT ONE TYPICAL PAVEMENT MARKINGS

TC-14 _ TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)

TC-16 SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

TC-22 – ARTERIAL ROAD INFORMATION SIGN

SPECIAL PROVISIONS:

KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC (LANE CLOSURES ONLY)
MAINTENANCE OF ROADWAYS (D1)
PUBLIC CONVENIENCE AND SAFETY (D1)
TEMPORARY INFORMATION SIGNING
WORK ZONE TRAFFIC CONTROL DEVICES (BDE)
VEHICLE AND EQUIPMENT WARNING LIGHTS (BDE)

REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES

<u>Description</u>. This work shall consist of the removal and disposal of regulated substances according to Section 669 of the Standard Specifications as revised below.

<u>Contract Specific Sites.</u> The excavated soil and groundwater within the areas listed below shall be managed as either "uncontaminated soil", hazardous waste, special waste or non-special waste. For stationing, the lateral distance is measured from centerline and the farthest distance is the offset distance or construction limit, whichever is less.

Soil Disposal Analysis. When the waste material requires sampling for landfill disposal acceptance, the Contractor shall secure a written list of the specific analytical parameters and analytical methods required by the landfill The Contractor shall collect and analyze the required number of samples for the parameters required by the landfill using the appropriate analytical procedures. A copy of the required parameters and analytical methods (from landfill email or on landfill letterhead) shall be provided as Attachment 4A of the BDE 2733 (Regulated Substances Final Construction Report). The price shall include all sampling materials and effort necessary for collection and management of the samples, including transportation of samples from the job site to the laboratory. The Contractor shall be responsible for determining the specific disposal facilities to be utilized; and collect and analyze any samples required for disposal facility acceptance using a NELAP certified analytical laboratory registered with the State of Illinois.

<u>Site 3880-1: Cook County Forest Preserve, 2300 block of E. Touhy Avenue, Park Ridge, Cook County</u>

Station 160+80 to Station 161+50 (CL Des Plaines River Trail), 0 to 25 LT, and 0 to 25 feet RT. The Engineer has determined this material meets the criteria of and shall be managed in accordance with Article 669.05(a)(5). Contaminants of concern sampling parameters: Manganese, and TVOCs.

<u>Site 3880-9: Cook County Forest Preserve, 2300 block of E. Touhy Avenue, Park Ridge, Cook County</u>

Station 69+35 to Station 72+50 (CL Des Plaines River Trail), 0 to 20 feet LT, and 0 to 25 feet RT. The Engineer has determined this material meets the criteria of and shall be managed in accordance with Article 669.05(a)(2). Contaminants of concern sampling parameters: Benzo(a)pyrene, and Manganese.

Site 3880-14: Ralph J. Frost Academy, 1177 S. Dee Road, Park Ridge, Cook County

• Station 76+70 to Station 77+35 (CL Des Plaines River Trail), 0 to 25 feet LT, and 0 to 25 feet RT. The Engineer has determined this material meets the criteria of and shall be managed in accordance with Article 669.05(a)(2). Contaminants of concern sampling parameters: Benzo(a)pyrene, and Manganese.

Work Zones

Three distinct OSHA HAZWOPER work zones (exclusion, decontamination, and support) shall apply to projects adjacent to or within sites with documented leaking underground storage tank (LUST) incidents, or sites under management in accordance with the

requirements of the Site Remediation Program (SRP), Resource Conservation and Recovery Act (RCRA), or Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), or as deemed necessary. For this project, the work zones apply for the following ISGS PESA Sites: **None**

TREE ROOT PRESERVATION

Description. This work shall consist of performing supersonic air excavation, examination and selective pruning of root structure, furnishing and placing CA-7, furnishing and placing root aeration matting, and furnishing and placing turf nails.

Work shall be performed by a qualified contractor who has three (3) years of experience performing supersonic air excavation and installing root aeration matting.

All Engineered Barrier work must be done under the direction of a certified arborist with three (3) years of experience with tree root protection projects.

Materials. CA-7 A sample with an indicated source must be supplied to the Engineer for approval prior to its installation. This material shall conform to the standards established in Article 1004.01 of the Standard Specifications, except that the word "limestone" shall be deleted from the first sentence of the (4) Crushed Stone paragraph of Article 1004.01. The use of limestone based coarse aggregates will not be allowed.

Root Aeration Matting (Geocomposite 70-2)

Shall meet the following American Society for Testing and Materials (ASTM) referenced standards;

PROPERTY	TEST METHODS	UNITS	VALUE	QUALIFIER	TEST FREQUENCY
Resin					
Density	ASTM D 1505	g/cm ³	0.94	MAV	lot
Melt Flow Index	ASTM D 1238	g/10min	1.0	MAX	lot
Geonet Core					
Thickness	ASTM D 5199	mil	200	±10%	50,000 sf
Carbon Black	ASTM D 4218	%	2-3	range	50,000 sf
Tensile Strength - MD	ASTM D 4595	Lb/ft (kN/m)	40	±10%	50,000 sf
Geotextile					
•U.V. Resistance (500 hrs)	ASTM D 4335	%	70		Per formula
Serviceability Class	AASHTO M-288		Class 2		
Grab Tensile	ASTM D 4632	lbs (N)	160 (712)	MARV	100,000 sf
Grab Elongation	ASTM D 4632	%	50	MARV	100,000 sf
Tear Strength	ASTM D 4533	lbs (N)	60 (267)	MARV	100,000 sf
Puncture Resistance	ASTM D 4833	lbs (N)	90 (400)	MARV	100,000 sf
•AOS	ASTM D 4751	US Sieve (mm)	70 (0.212)	Max ARV	500,000 sf
Permittivity	ASTM D 4491	Sec	1.1	MARV	500,000 sf
Geocomposite					
Peel Adhesion - MD	ASTM D7005	lb/in (g/in)	1	MAV	100,000 sf

Hydraulic Behavior of Geocomposite

<u> </u>					
Gradient Load	ASTM D 4716	m²/sec	10,000 psf	MAV	200,000 sf
0.1			2*10		

Execution.

Supersonic Air Tool (SSAT) Excavation: Shall be performed under the supervision of a certified arborist. The arborist shall inspect the exposed roots and determine and direct which roots should be pruned.

Roots must not be exposed for longer than 6 hours. Contractor is responsible for preventing roots from desiccating.

Placing CA-7 below Root Aeration Mat: Hand place CA-7 between exposed roots. Fill in all voids and hand tamp.

Installation of Geocomposite (Root Aeration Matting): Install root aeration matting as indicated on the details. Extend root aeration matting beyond edges of paved areas and aggregate shoulders to allow for venting.

1. Material Placement

- A. The geocomposite roll should be installed in the direction of the slope and in the intended direction of path unless otherwise specified by the ENGINEER.
- B. In the presence of wind, the geocomposite shall be weighted down with sandbags or the equivalent. Such sandbags shall be used during placement and remain until replaced with cover material.
- C. When applying fill material, no equipment can drive directly across the geocomposite.
- D. The specified fill material shall be placed and spread utilizing vehicles with a low ground pressure.
- E. The cover material shall be placed in the geocomposite in a manner that prevents damage to the geocomposite. Placement of the cover material shall proceed immediately following the placement and inspection of the geocomposite.

1. Seams and Placement

- A. Each component of the geocomposite will be secured or seamed to the like
- B. component at overlaps.
- C. Geonet Components
 - i. Adjacent edges of the geonet along the length of the geocomposite roll shall be placed with the edges of each geonet butted against each other.
 - ii. The overlaps shall be joined by tying the geonet structure with cable ties.
 - iii. These ties shall be spaced every 5 feet along the roll length.
 - iv. Adjoining geocomposite rolls (end to end) across the roll width should be shingled down in the direction of the slope, with the geonet portion of the top overlapping the geonet portion of the bottom geocomposite a minimum of 12 inches across the roll width.

- v. The geonet core portion should be tied every 6 inches or as specified by the ENGINEER.
- vi. Anchor the geocomposite in place using 12-inch turf nails with 1-1/2" washers placed on 3' centers, staggered.

1. Repair

- A. Prior to covering the deployed geocomposite, each roll shall be inspected for damage resulting from construction.
- B. Any rips, tears, or damaged areas on the deployed geocomposite shall be removed and patched. The patch shall be secured to the original geonet by tying every 6 inches with the approved tying devices. If the area to be repaired is more than 50 percent of the width of the panel, the damaged area shall be cut out and the two portions of the geonet shall be cut out and the two portions of the geonet shall be joined.

Clearing Area and Disposal of Surplus Material. Upon completion of the work, all areas shall be cleared of equipment, debris, and excess material. Surplus or waste material resulting from construction operations shall be disposed of according to Article 202.03 of the Standard Specifications.

Measurement and Payment. This work shall be paid for at the contract price per square yard for TREE ROOT PRESERVATION.

TREE ROOT PRUNING (SPECIAL)

This work shall consist of pruning the tree roots in accordance with Section 201 of the Standard Specifications, with the following modifications:

Description. If construction is to occur within the tree protection zone as defined by the FPDCC Tree Protection and Preservation Manual (TPMM), root pruning will be required. All pruning shall be performed by a professional arborist.

Schedule. When possible, root pruning shall occur in the dormant season. Pruning of Oaks in the growing season is prohibited. Any pruning during the growing season shall require the cut surfaces to be painted with latex paint to prevent the spread of disease. Trees that are indicated for root pruning shall be irrigated prior to, during, and after root pruning.

Inspection. The site shall be inspected for visible aboveground hazards prior to beginning any root management procedure. The location of utilities and other obstructions both below and above ground shall be considered prior to root management operations. Utilities and other obstructions include but are not limited to: gas; electric; communications; sewer; drainage; and, irrigation. Conditions identified that would affect the operation, or are outside of, the scope of work should be reported to the project engineer.

Practices. Root pruning using an approved mechanical root pruning saw or air excavator with a handsaw or chainsaw shall be performed prior to digging where noted on the plans or directed by the Engineer. Whenever roots of plant material to remain are exposed during construction, the damaged root ends are to be removed by cutting them off cleanly with a handsaw, reciprocating saw or chainsaw. Pruning shall be done in the presence of the Engineer.

Roots should be cut with equipment that minimizes cracking the wood and tearing the bark. Root pruning tools shall be selected to meet the objective while minimizing damage to the plant. Wounds to the tree should not be covered, except to manage desiccation or pests. Cuts should result in a smooth surface whenever possible. When treating injured roots, only loose or damaged tissue should be removed.

Heavy equipment should be located outside the root cut line or remain on existing pavement or on a soil-protecting surface.

Temporary staging areas for excavated soil should be located at a safe distance on the side of the trench furthest from the trunk.

Process. Within the tree protection zone remove any sod, coarse woody debris or fresh mulch away from the root collar area. Select tools to avoid root and trunk damage. Repeat until trunk and flare are clear, out to the root collar, where buttress roots divide. Use smaller hand tools, vacuum, or compressed water or air, to complete the excavation for the area that is to be root pruned.

For root cuts on only one side of a tree, the root cut distance shall be no less three times the diameter at breast height.

Roots should be exposed using minimally damaging excavation method prior to pruning. The final cut should result in a flat surface with adjacent bark firmly attached.

Exposed fine roots (2mm or less) that due to the construction activities will remain exposed for periods longer than 24 hours shall be covered with burlap and repeatedly sprayed with water until the landscape restoration occurs.

When the construction process permits and within 24 hours that root pruning operation occurs backfill the root pruning trench with material excavated from the trench or loose screened topsoil and top with 3-4" shredded hardwood bark mulch.

Pruning shall be done in the presence of the Engineer and in such a manner as to preserve the natural growth habit of each plant.

Fertilizing and watering after root pruning shall be as follows.

(1) Fertilizer Nutrients. Fertilizer nutrients shall be applied within 48 hours after root damage occurs. A three (3) month slow-release fertilizer with a 1:1:1 ratio shall be applied at the rate of 5 lb (2 kg) of nutrients per 1000 sq ft (90 sq m).

Application shall be accomplished by placing dry fertilizer in holes in the soil. The holes shall be 8 to 12 in. (200 to 300 mm) deep and spaced 2 ft (600 mm) apart in an area beginning 30 in. (750 mm) from the base of the plant. Holes shall be punched with a punch bar, dug with a spade, drilled with an auger, or any other method approved by the Engineer. Approximately 0.02 lb (10 g) of fertilizer nutrients shall be placed in each hole [250 holes/1000 sq ft (250 holes/90 sq m)].

If the Engineer determines that the hole method of fertilizer placement is not practical or desirable, an approved method of uniform surface application will be allowed.

(2) Supplemental Watering. If there has been less than 0.5" of total rainfall within the two weeks prior to root pruning, supplemental water shall be applied within 48 hours of any root damage. The water shall be applied at the rate of 2 gal/sq yd (9 L/sq m) of surface area within the root zone of plant material having sustained damage to the root zone. Subsequent weekly waterings shall be applied if deemed necessary by the Engineer.

The area within the tree protection zone shall be covered with a 2" layer of shredded hardwood bark mulch. This material will remain place until landscape restoration occurs.

Measurement and Payment. This work will be paid for at the contract unit price per lineal foot for TREE ROOT PRUNING (SPECIAL) which price shall be payment in full for all labor, material, and equipment necessary for the supply, and installation of the planting soil and all incidental work and materials herein specified.

UNAUTHORIZED TREE REMOVAL

The Contractor shall only remove trees approved by the representative from the Forest Preserve District of Cook County (FPDCC).

Should the Contractor remove any tree without the prior approval of FPDCC, the Contractor shall be liable to the FPDCC as defined in the FPDCC Tree Mitigation Plan, not as a penalty but as liquidated and ascertained damages. Such damages may be deducted by the Department from any monies due the Contractor and paid to the Forest Preserve District of Cook County. These damages shall apply during the contract time and during any extensions of the contract time.

WASHOUT BASIN

<u>Description.</u> This item shall consist of constructing and maintaining a washout basin for concrete trucks and other construction vehicles.

Requirements. The work shall include general maintenance and removal of all construction debris.

Basis of Payment. This item will be paid for at the contract unit price per lump sum for WASHOUT BASIN.

<u>HOT-MIX ASPHALT - MIXTURE DESIGN VERIFICATION AND PRODUCTION (D1)</u>

Effective: January 1, 2019 Revised: December 1, 2021

Add to Article 1030.05 (d)(3) of the Standard Specifications to read:

"During mixture design, prepared samples shall be submitted to the District laboratory by the Contractor for verification testing. The required testing, and number and size of prepared samples submitted, shall be according to the following tables.

High ESAL – Required Samples for Verification Testing				
Mixture Hamburg Wheel and I-FIT Testing 1/2/				
Binder	total of 3 - 160 mm tall bricks			
Surface	total of 4 - 160 mm tall bricks			

Low ESAL – Required Samples for Verification Testing				
Mixture I-FIT Testing 1/2/				
Binder	1 - 160 mm tall brick			
Surface	2 - 160 mm tall bricks			

- 1/ The compacted gyratory bricks for Hamburg wheel and I-FIT testing shall be 7.5 ± 0.5 percent air voids.
- 2/ If the Contractor does not possess the equipment to prepare the 160 mm tall brick(s), twice as many 115 mm tall compacted gyratory bricks will be acceptable.

Revise the fourth paragraph of Article 1030.10 of the Standard Specifications to read:

"When a test strip is not required, each HMA mixture shall still be sampled on the first day of production: I-FIT and Hamburg wheel testing for High ESAL; I-FIT testing for Low ESAL. Within two working days after sampling the mixture, the Contractor shall deliver gyratory cylinders to the District laboratory for Department verification testing. The High ESAL mixture test results shall meet the requirements of Articles 1030.05(d)(3) and 1030.05(d)(4). The Low ESAL mixture test results shall meet the requirements of Article 1030.05(d)(4). The required number and size of prepared samples submitted for the Hamburg wheel and I-FIT testing shall be according to the "High ESAL - Required Samples for Verification Testing" table in Article 1030.05(d)(3) above."

Add the following to the end of Article 1030.10 of the Standard Specifications to read:

"Mixture sampled during first day of production shall include approximately 60 lb (27 kg) of additional material for the Department to conduct Hamburg wheel testing and

approximately 80 lb (36 kg) of additional material for the Department to conduct I-FIT testing. Within two working days after sampling, the Contractor shall deliver prepared samples to the District laboratory for verification testing. The required number and size of prepared samples submitted for the Hamburg wheel and I-FIT testing shall be according to the "High ESAL - Required Samples for Verification Testing" table in Article 1030.05(d)(3) above."

HOT-MIX ASPHALT BINDER AND SURFACE COURSE (D1)

Effective: November 1, 2019 Revised: December 1, 2021

Revise Article 1004.03(c) to read:

"(c) Gradation. The coarse aggregate gradations shall be as listed in the following table.

Use	Size/Application	Gradation No.
Class A-1, A-2, & A-3	3/8 in. (10 mm) Seal	CA 16 or CA 20
Class A-1	1/2 in. (13 mm) Seal	CA 15
Class A-2 & A-3	Cover Coat	CA 14
	IL-19.0;	CA 11 ^{1/}
	Stabilized Subbase IL-19.0	
	SMA 12.5 ^{2/}	CA 13 ⁴ , CA 14, or CA 16
HMA High ESAL	SMA 9.5 ^{2/}	CA 13 ^{3/4/} or CA 16 ^{3/}
	IL-9.5	CA 16, CM 13 ^{4/}
	IL-9.5FG	CA 16
LINAA Law ECAL	IL-19.0L	CA 11 ^{1/}
HMA Low ESAL	IL-9.5L	CA 16

- 1/ CA 16 or CA 13 may be blended with the CA 11.
- 2/ The coarse aggregates used shall be capable of being combined with the fine aggregates and mineral filler to meet the approved mix design and the mix requirements noted herein.
- 3/ The specified coarse aggregate gradations may be blended.
- 4/ CA 13 shall be 100 percent passing the 1/2 in. (12.5mm) sieve."

Revise Article 1004.03(e) of the Supplemental Specifications to read:

"(e) Absorption. For SMA the coarse aggregate shall also have water absorption ≤ 2.0 percent."

Revise the "High ESAL" portion of the table in Article 1030.01 to read:

"High ESAL	Binder Courses	IL-19.0, IL-9.5, IL-9.5FG, IL-4.75, SMA 12.5, Stabilized Subbase IL-19.0
	Surface Courses	IL-9.5, IL-9.5FG, SMA 12.5, SMA 9.5"

Revise Note 2. and add Note 6 to Article 1030.02 of the Standard Specifications to read:

"Item Article/Section

(g)Performance Graded Asphalt Binder (Note 6)

1032

(h) Fibers (Note 2)

Note 2. A stabilizing additive such as cellulose or mineral fiber shall be added to the SMA mixture according to Illinois Modified AASHTO M 325. The stabilizing additive shall meet the Fiber Quality Requirements listed in Illinois Modified AASHTO M 325. Prior to approval and use of fibers, the Contractor shall submit a notarized certification by the producer of these materials stating they meet these requirements. Reclaimed Asphalt Shingles (RAS) may be used in Stone Matrix Asphalt (SMA) mixtures designed with an SBA polymer modifier as a fiber additive if the mix design with RAS included meets AASHTO T305 requirements. The RAS shall be from a certified source that produces either Type I or Type 2. Material shall meet requirements noted herein and the actual dosage rate will be determined by the Engineer.

Note 6. The asphalt binder shall be an SBS PG 76-28 when the SMA is used on a full-depth asphalt pavement and SBS PG 76-22 when used as an overlay, except where modified herein. The asphalt binder shall be a SBS PG 76-22 for IL-4.75, except where modified herein.."

Revise table in Article 1030.05(a) of the Standard Specifications to read:

"MIXTURE COMPOSITION (% PASSING) 1/												
Sieve	Sieve IL-19.0 mm SMA 12.5 SMA 9.5 IL-9.5mm IL-9.5				5FG	IL-4.7	5 mm					
Size	min	max	min	max	min	max	min	max	min	max	min	max

1 1/2 in (37.5 mm)												
1 in. (25 mm)		100										
3/4 in. (19 mm)	90	100		100								
1/2 in. (12.5 mm)	75	89	80	100		100		100		100		100
3/8 in. (9.5 mm)				65	90	100	90	100	90	100		100
#4 (4.75 mm)	40	60	20	30	36	50	34	69	60	75 ^{6/}	90	100
#8 (2.36 mm)	20	42	16	24 4/	16	324/	34 5/	52 ^{2/}	45	60 ^{6/}	70	90
#16 (1.18 mm)	15	30					10	32	25	40	50	65
#30 (600 μm)			12	16	12	18			15	30		
#50 (300 μm)	6	15					4	15	8	15	15	30
#100 (150 μm)	4	9					3	10	6	10	10	18
#200 (75 μm)	3.0	6.0	7.0	9.0 3/	7.5	9.5 ^{3/}	4.0	6.0	4.0	6.5	7.0	9.0 3/
#635 (20 μm)			≤	3.0	≤ 3	3.0						
Ratio Dust/Asphalt Binder		1.0		1.5		1.5		1.0		1.0		1.0

- 1/ Based on percent of total aggregate weight.
- 2/ The mixture composition shall not exceed 44 percent passing the #8 (2.36 mm) sieve for surface courses with Ndesign = 90.
- 3/ Additional minus No. 200 (0.075 mm) material required by the mix design shall be mineral filler, unless otherwise approved by the Engineer.
- 4/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted above the percentage stated on the table.
- 5/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted below 34 percent.
- 6/ When the mixture is used as a binder, the maximum shall be increased by 0.5 percent passing."

Revise Article 1030.05(b) of the Standard Specifications to read:

(b) Volumetric Requirements. The target value for the air voids of the HMA shall be 4.0 percent, for IL-4.75 and SMA mixtures it shall be 3.5 percent and for Stabilized Subbase it shall be 3.0 percent at the design number of gyrations. The voids in the mineral aggregate (VMA) and voids filled with asphalt binder (VFA) of the HMA design shall be based on the nominal maximum size of the aggregate in the mix and shall conform to the following requirements.

	Voids in the Mineral Aggregate (VMA), % Minimum for Ndesign							
Mix Design	30	50	70	80	90			
IL-19.0		13.5	13.5		13.5			
IL-9.5		15.0	15.0					
IL-9.5FG		15.0	15.0					
IL-4.75 ^{1/}		18.5						
SMA- 12.5 ^{1/2/5/}				17.0 ^{3/} /16.0 ^{4/}				
SMA-9.5 ^{1/2/5/}				17.0 ^{3/} /16.0 ^{4/}				
IL-19.0L	13.5							
IL-9.5L	15.0							

- 1/ Maximum draindown shall be 0.3 percent according to Illinois Modified AASHTO T 305.
- 2/ The draindown shall be determined at the JMF asphalt binder content at the mixing temperature plus 30°F.
- 3/ Applies when specific gravity of coarse aggregate is ≥ 2.760 .
- 4/ Applies when specific gravity of coarse aggregate is < 2.760.
- 5/ For surface course, the coarse aggregate can be crushed steel slag, crystalline crushed stone or crushed sandstone. For binder course, coarse aggregate shall be crushed stone (dolomite), crushed gravel, crystalline crushed stone, or crushed sandstone"

Revise the last paragraph of Article 1102.01 (a) (5) of the Standard Specifications to read:

"IL-4.75 and Stone Matrix Asphalt (SMA) mixtures which contain aggregate having absorptions greater than or equal to 2.0 percent, or which contain steal slag sand, shall have minimum surge bin storage plus haul time of 1.5 hours."

Add after third sentence of Article 1030.09(b) to read:

"If the Contractor and Engineer agree the nuclear density test method is not appropriate for the mixture, cores shall be taken at random locations determined according to the QC/QA document "Determination of Random Density Test Site Locations". Core densities shall be determined using the Illinois Modified AASHTO T 166 or T 275 procedure."

Revise Table 1 and Note 4/ of Table 1 in Article 406.07(a) of the Standard Specifications to read:

	Breakdown/Intermediate Roller (one of the following)	Final Roller (one or more of the following)	Density Requirement
IL-9.5, IL-9.5FG, IL-19.0 ^{1/}	V_D , P , T_B , $3W$, O_T , O_B	V_S , T_B , T_{F_i} O_T	As specified in Section 1030
IL-4.75 and SMA	T _B , 3W, O _T	T _F , 3W	As specified in Section 1030
Mixtures on Bridge Decks ^{2/}	Тв	T_F	As specified in Articles 582.05 and 582.06.

"4/ The Contractor shall provide a minimum of two steel-wheeled tandem rollers (T_B), and/or three-wheel (3W) rollers for breakdown, except one of the (T_B) or (3W) rollers shall be 84 inches (2.14 m) wide and a weight of 315 pound per linear inch (PLI) (5.63 kg/mm) and one of the (T_B) or (3W) rollers can be substituted for an oscillatory roller (O_T). T_F rollers shall be a minimum of 280 lb/in. (50 N/mm). The 3W and T_B rollers shall be operated at a uniform speed not to exceed 3 mph (5 km/h), with the drive roll for T_B rollers nearest the paver and maintain an effective rolling distance of not more than 150 ft (45 m) behind the paver."

Add the following after the fourth paragraph of Article 406.13 (b):

"The plan quantities of SMA mixtures shall be adjusted using the actual approved binder and surface Mix Design's G_{mb}."

Revise first paragraph of Article 1030.10 of the Standard Specifications to read:

"A test strip of 300 ton (275 metric tons), except for SMA mixtures it will be 400 ton (363 metric ton), will be required for each mixture on each contract at the beginning of HMA production for each construction year according to the Manual of Test Procedures for Materials "Hot Mix Asphalt Test Strip Procedures". At the request of the Producer, the Engineer may waive the test strip if previous construction during the current construction year has demonstrated the constructability of the mix using Department test results."

Revise third paragraph of Article 1030.10 of the Standard Specifications to read:

"When a test strip is constructed, the Contractor shall collect and split the mixture according to the document "Hot-Mix Asphalt Test Strip Procedures". The Engineer, or a representative, shall deliver split sample to the District Laboratory for verification testing. The Contractor shall complete mixture tests stated in Article 1030.09(a). Mixture sampled shall include enough material for the Department to conduct mixture tests detailed in Article 1030.09(a) and in the document "Hot-Mix Asphalt Mixture Design Verification Procedure" Section 3.3. The mixture test results shall meet the requirements of Articles 1030.05(b) and 1030.05(d), except Hamburg wheel tests will only be conducted on High ESAL mixtures during production."

FRICTION AGGREGATE (D1)

Effective: January 1, 2011 Revised: December 1, 2021

Revise Article 1004.03(a) of the Standard Specifications to read:

"1004.03 Coarse Aggregate for Hot-Mix Asphalt (HMA). The aggregate shall be according to Article 1004.01 and the following.

(a) Description. The coarse aggregate for HMA shall be according to the following table.

Use	Mixture	Aggregates Allowed		
Class A	Seal or Cover	Allowed Alone or in Combination 5/:		
		Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag Crushed Concrete		
HMA	Stabilized Subbase	Allowed Alone or in Combination 5/:		
Low ESAL	or Shoulders	Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{1/} Crushed Concrete		
НМА	Binder	Allowed Alone or in Combination 5/6/:		
High ESAL Low ESAL	IL-19.0 or IL-19.0L SMA Binder	Crushed Gravel Carbonate Crushed Stone ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Concrete ^{3/}		

Use	Mixture	Aggregates Allow	ved			
HMA	C Surface and Binder IL-9.5	Allowed Alone or in Combination 5/:				
High ESAL Low ESAL	IL-9.5FG or IL-9.5L	Crushed Gravel Carbonate Crushed Stone ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{4/} Crushed Concrete ^{3/}				
HMA	D Surface and Binder	Allowed Alone or	in Combination 5/:			
High ESAL	IL-9.5 or IL-9.5FG	Crushed Gravel Carbonate Crushed Stone (other than Limestone) ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{4/}				
		Other Combinations Allowed:				
		Up to	With			
		25% Limestone	Dolomite			
		50% Limestone	Any Mixture D aggregate other than Dolomite			
		75% Limestone	Crushed Slag (ACBF) or Crushed Sandstone			
HMA	E Surface	Allowed Alone or	in Combination ^{5/6/} :			
High ESAL	IL-9.5 SMA Ndesign 80 Surface	Crushed Gravel Crystalline Crush Crushed Sandsto Crushed Slag (AG Crushed Steel Slag No Limestone.	one CBF)			
		Other Combinations Allowed:				
		Up to	With			

Use	Mixture	Aggregates Allov	wed		
		50% Dolomite ^{2/}	Any Mixture E aggregate		
		75% Dolomite ^{2/}	Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone		
		75% Crushed Gravel ^{2/}	Crushed Sandstone, Crystalline Crushed Stone, Crushed Slag (ACBF), or Crushed Steel Slag		
HMA High ESAL	F Surface IL-9.5	Allowed Alone o	Alone or in Combination 5/6/:		
Trigit LOAL	SMA Ndesign 80 Surface	Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag No Limestone.			
		Other Combinations Allowed:			
		Up to	With		
		50% Crushed Gravel ^{2/} or Dolomite ^{2/}	Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone		

- 1/ Crushed steel slag allowed in shoulder surface only.
- 2/ Carbonate crushed stone (limestone) and/or crushed gravel shall not be used in SMA Ndesign 80.
- 3/ Crushed concrete will not be permitted in SMA mixes.
- 4/ Crushed steel slag shall not be used as binder.
- 5/ When combinations of aggregates are used, the blend percent measurements shall be by volume."
- 6/ Combining different types of aggregate will not be permitted in SMA Ndesign 80."

TRAFFIC SIGNAL GENERAL REQUIREMENTS

Effective: May 22, 2002 Revised: March 25, 2016

800.01TS

These Traffic Signal Special Provisions and the "District One Standard Traffic Signal Design Details" supplement the requirements of the State of Illinois "Standard Specifications for Road and Bridge Construction." The intent of these Special Provisions is to prescribe the materials and construction methods commonly used for traffic signal installations.

- All material furnished shall be new unless otherwise noted herein.
- Traffic signal construction and maintenance work shall be performed by personnel holding current IMSA Traffic Signal Technician Level II certification. A copy of the certification shall be immediately available upon request of the Engineer.
- The work to be done under this contract consists of furnishing, installing and maintaining all traffic signal work and items as specified in the Plans and as specified herein in a manner acceptable and approved by the Engineer.

Definitions of Terms.

Add the following to Section 101 of the Standard Specifications:

101.56 Vendor. Company that sells a particular type of product directly to the contractor or the Equipment Supplier.

101.57 Equipment supplier. Company that supplies, represents and provides technical support for IDOT District One approved traffic signal controllers and other related equipment. The Equipment Supplier shall be located within IDOT District One and shall:

- Be full service with on-site facilities to assemble, test and trouble-shoot traffic signal controllers and cabinet assemblies.
- Maintain an inventory of IDOT District One approved controllers and cabinets.
- Be staffed with permanent sales and technical personnel able to provide traffic signal controller and cabinet expertise and support.
- Technical staff shall hold current IMSA Traffic Signal Technician Level III certification and shall attend traffic signal turn-ons and inspections with a minimum 14 calendar day notice.

Submittals.

Revise Article 801.05 of the Standard Specifications to read:

All material approval requests shall be submitted electronically through the District's SharePoint System unless directed otherwise by the Engineer. Electronic material submittals shall follow the District's Traffic Operations Construction Submittals guidelines. General requirements include:

- All material approval requests shall be made prior to or no later than the date of the preconstruction meeting. A list of major traffic signal items can be found in Article 801.05.
 Material or equipment which is similar or identical shall be the product of the same manufacturer, unless necessary for system continuity. Traffic signal materials and equipment shall bear the U.L. label whenever such labeling is available.
- 2. Product data and shop drawings shall be assembled by pay item. Only the top sheet of each pay item submittal will be stamped by the Department with the review status, except

- shop drawings for mast arm pole assemblies and the like will be stamped with the review status on each sheet.
- 3. Original manufacturer published product data and shop drawing sheets with legible dimensions and details shall be submitted for review.
- 4. When hard copy submittals are necessary, four complete copies of the manufacturer's descriptive literatures and technical data for the traffic signal materials shall be submitted. For hard copy or electronic submittals, the descriptive literature and technical data shall be adequate for determining whether the materials meet the requirements of the plans and specifications. If the literature contains more than one item, the Contractor shall indicate which item or items will be furnished.
- 5. When hard copy submittals are necessary for structural elements, four complete copies of the shop drawings for the mast arm assemblies and poles, and the combination mast arm assemblies and poles showing, in detail, the fabrication thereof and the certified mill analyses of the materials used in the fabrication, anchor rods, and reinforcing materials shall be submitted.
- 6. Partial or incomplete submittals will be returned without review.
- 7. Certain non-standard mast arm poles and special structural elements will require additional review from IDOT's Central Office. Examples include ornamental/decorative, non-standard length mast arm pole assemblies and monotube structures. The Contractor shall account for the additional review time in his schedule.
- 8. The contract number or permit number, project location/limits and corresponding pay code number must be on each sheet of correspondence, catalog cuts and mast arm poles and assemblies drawings.
- 9. Where certifications and/or warranties are specified, the information submitted for approval shall include certifications and warranties. Certifications involving inspections, and/or tests of material shall be complete with all test data, dates, and times.
- 10. After the Engineer reviews the submittals for conformance with the design concept of the project, the Engineer will stamp the drawings indicating their status as 'Approved', 'Approved-As-Noted', 'Disapproved', or 'Incomplete'. Since the Engineer's review is for conformance with the design concept only, it is the Contractor's responsibility to coordinate the various items into a working system as specified. The Contractor shall not be relieved from responsibility for errors or omissions in the shop, working, layout drawings, or other documents by the Department's approval thereof. The Contractor must still be in full compliance with contract and specification requirements.
- 11. The Contractor shall secure approved materials in a timely manner to assure construction schedules are not delayed.
- 12. All submitted items reviewed and marked 'APPROVED AS NOTED', 'DISAPPROVED', or 'INCOMPLETE' are to be resubmitted in their entirety, unless otherwise indicated within the submittal comments, with a disposition of previous comments to verify contract compliance at no additional cost to the contract.
- 13. Exceptions to and deviations from the requirements of the Contract Documents will not be allowed. It is the Contractor's responsibility to note any deviations from Contract requirements at the time of submittal and to make any requests for deviations in writing to the Engineer. In general, substitutions will not be acceptable. Requests for substitutions must demonstrate that the proposed substitution is superior to the material or equipment required by the Contract Documents. No exceptions, deviations or substitutions will be permitted without the approval of the Engineer.
- 14. Contractor shall not order major equipment such as mast arm assemblies prior to Engineer approval of the Contractor marked proposed traffic signal equipment locations to assure

proper placement of contract required traffic signal displays, push buttons and other facilities. Field adjustments may require changes in proposed mast arm length and other coordination.

Marking Proposed Locations.

Revise "Marking Proposed Locations for Highway Lighting System" of Article 801.09 to read "Marking Proposed Locations for Highway Lighting System and Traffic Signals."

Add the following to Article 801.09 of the Standard Specifications:

It shall be the contractor's responsibility to verify all dimensions and conditions existing in the field prior to ordering materials and beginning construction. This shall include locating the mast arm foundations and verifying the mast arms lengths.

Inspection of Electrical Systems.

Add the following to Article 801.10 of the Standard Specifications:

(c) All cabinets including temporary traffic signal cabinets shall be assembled by an approved equipment supplier in District One. The Department reserves the right to request any controller and cabinet to be tested at the equipment supplier's facility prior to field installation, at no extra cost to this contract.

Maintenance and Responsibility.

Revise Article 801.11 of the Standard Specifications to read:

- a. Existing traffic signal installations and/or any electrical facilities at all or various locations may be altered or reconstructed totally or partially as part of the work on this Contract. The Contractor is hereby advised that all traffic control equipment, presently installed at these locations, may be the property of the State of Illinois, Department of Transportation, Division of Highways, County, Private Developer, Municipality or Transit Agency in which they are located. Once the Contractor has begun any work on any portion of the project, all traffic signals within the limits of this contract or those which have the item "Maintenance of Existing Traffic Signal Installation," "Temporary Traffic Signal Installation(s)" and/or "Maintenance of Existing Flashing Beacon Installation," shall become the full responsibility of the Contractor. The Contractor shall supply the Engineer, Area Traffic Signal Maintenance and Operations Engineer, IDOT ComCenter and the Department's Electrical Maintenance Contractor with two 24-hour emergency contact names and telephone numbers.
- b. Automatic Traffic Enforcement equipment such as red lighting running and railroad crossing camera systems are owned and operated by others and the Contractor shall not be responsible for maintaining this equipment.
- c. Regional transit, County and other agencies may also have equipment connected to existing traffic signal or peripheral equipment such as PTZ cameras, switches, transit signal priority (TSP and BRT) servers and other devices that shall be included with traffic signal maintenance at no additional cost to the contract.

- d. When the project has a pay item for "Maintenance of Existing Traffic Signal Installation," "Temporary Traffic Signal Installation(s)" and/or "Maintenance of Existing Flashing Beacon Installation," the Contractor must notify both the Area Traffic Signal Maintenance and Operations Engineer at (847) 705-4424 and the Department's Electrical Maintenance Contractor, of their intent to begin any physical construction work on the Contract or any portion thereof. This notification must be made a minimum of seven (7) working days prior to the start of construction to allow sufficient time for inspection of the existing traffic signal installation(s) and transfer of maintenance to the Contractor. The Department will attempt to full-fill the Contractor's inspection date request(s), however workload and other conditions may prevent the Department from accommodating specific dates or times. The Contractor shall not be entitled to any other compensation if the requested inspection date(s) cannot be scheduled by the Department. If work is started prior to an inspection, maintenance of the traffic signal installation(s) will be transferred to the Contractor without an inspection. The Contractor will become responsible for repairing or replacing all equipment that is not operating properly or is damaged at no cost to the owner of the traffic signal. Final repairs or replacement of damaged equipment must meet the approval of the Engineer prior to or at the time of final inspection otherwise the traffic signal installation will not be accepted.
- e. The Contractor is advised that the existing and/or temporary traffic signal installation must remain in operation during all construction stages, except for the most essential down time. Any shutdown of the traffic signal installation, which exceeds fifteen (15) minutes, must have prior approval of the Engineer. Approval to shut down the traffic signal installation will only be granted during the period extending from 10:00 a.m. to 3:00 p.m. on weekdays. Shutdowns shall not be allowed during inclement weather or holiday periods.
- f. The Contractor shall be fully responsible for the safe and efficient operation of the traffic signals and other equipment noted herein. Any inquiry, complaint or request by the Department, the Department's Electrical Maintenance Contractor or the public, shall be investigated and repairs begun within one hour. Failure to provide this service will result in liquidated damages of \$1000 per day per occurrence. In addition, the Department reserves the right to assign any work not completed within this timeframe to the Electrical Maintenance Contractor. All costs associated to repair this uncompleted work shall be the responsibility of the Contractor. Failure to pay these costs to the Electrical Maintenance Contractor within one month after the incident will result in additional liquidated damages of \$1000 per month per occurrence. Unpaid bills will be deducted from the cost of the Contract. The Department may inspect any signalizing device on the Department's highway system at any time without notification.
- g. Any proposed activity in the vicinity of a highway-rail grade crossing must adhere to the guidelines set forth in the current edition of the Manual on Uniform Traffic Control Devices (MUTCD) regarding work in temporary traffic control zones in the vicinity of highway-rail grade crossings which states that lane restrictions, flagging, or other operations shall not create conditions where vehicles can be queued across the railroad tracks. If the queuing of vehicles across the tracks cannot be

avoided, a uniformed law enforcement officer or flagger shall be provided at the crossing to prevent vehicles from stopping on the tracks, even if automatic warning devices are in place.

- h. The Contractor shall be responsible to clear snow, ice, dirt, debris or other condition that obstructs visibility of any traffic signal display or access to traffic signal equipment.
- i. The Contractor shall maintain the traffic signal in normal operation during short or long term loss of utility or battery back-up power at critical locations designated by the Engineer. Critical locations may include traffic signals interconnected to railroad warning devices, expressway ramps, intersection with an SRA route, critical corridors or other locations identified by the Engineer. Temporary power to the traffic signal must meet applicable NEC and OSHA guidelines and may include portable generators and/or replacement batteries. Temporary power to critical locations shall not be for separately but shall be included in the contract.

Damage to Traffic Signal System.

Add the following to Article 801.12(b) of the Standard Specifications to read:

Any traffic signal control equipment damaged or not operating properly from any cause shall be replaced with new equipment meeting current District One traffic signal specifications and provided by the Contractor at no additional cost to the Contract and/or owner of the traffic signal system, all as approved by the Engineer. Final replacement of damaged equipment must meet the approval of the Engineer prior to or at the time of final inspection otherwise the traffic signal installation will not be accepted. Cable splices are only allowed at the bases pf post and mast arms.

Temporary replacement of damaged or knockdown of a mast arm pole assembly shall require construction of a full or partial span wire signal installation or other method approved by the Engineer to assure signal heads are located overhead and over traveled pavement. Temporary replacement of mast arm mount signals with post mount signals will not be permitted.

Automatic Traffic Enforcement equipment, such as Red Light Enforcement cameras, detectors, and peripheral equipment, damaged or not operating properly from any cause, shall be the responsibility of the municipality or the Automatic Traffic Enforcement company per Permit agreement.

Traffic Signal Inspection (TURN-ON).

Revise Article 801.15(b) of the Standard Specifications to read:

It is the intent to have all electric work completed and equipment field tested by the Equipment Supplier prior to the Department's "turn-on" field inspection. If in the event the Engineer determines work is not complete and the inspection will require more than two (2) hours to complete, the inspection shall be canceled and the Contractor will be required to reschedule at another date. The maintenance of the traffic signals will not be accepted until all punch list work is corrected and re-inspected.

When the road is open to traffic, except as otherwise provided in Section 850 of the Standard Specifications, the Contractor may request a turn-on and inspection of the completed traffic signal installation at each separate location. This request must be made to the Area Traffic Signal Maintenance and Operations Engineer at (847) 705-4424 a minimum of seven (7) working days prior to the time of the requested inspection. The Department will attempt to full-fill the Contractor's turn-on and inspection date request(s), however workload and other conditions may prevent the Department from accommodating specific dates or times. The Contractor shall not be entitled to any other compensation if the requested turn-on and inspection date(s) cannot be scheduled by the Department. The Department will not grant a field inspection until written or electronic notification is provided from the Contractor that the equipment has been field tested and the intersection is operating according to Contract requirements. The Contractor must invite local fire department personnel to the turn-on when Emergency Vehicle Preemption (EVP) is included in the project. When the contract includes the item RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM, OPTIMIZE TRAFFIC SIGNAL SYSTEM, or TEMPORARY TRAFFIC SIGNAL TIMINGS, the Contractor must notify the SCAT Consultant of the turn-on/detour implementation schedule, as well as stage changes and phase changes during construction.

The Contractor must have all traffic signal work completed and the electrical service installation connected by the utility company prior to requesting an inspection and turn-on of the traffic signal installation. The Contractor shall be responsible to provide a police officer to assist with traffic control at the time of testing.

The Contractor shall provide a representative from the control equipment vendor's office who is knowledgeable of the cabinet design and controller functions to attend the traffic signal inspection for both permanent and temporary traffic signal turn-ons.

Upon demonstration that the signals are operating and all work is completed in accordance with the Contract and to the satisfaction of the Engineer, the Engineer will then allow the signals to be placed in continuous operation. The Agency that is responsible for the maintenance of each traffic signal installation will assume the maintenance upon successful completion of this inspection.

The District requires the following Final Project Documentation from the Contractor at traffic signal turn-ons in electronic format in addition to hard copies where noted. A CD/DVD shall be submitted with separate folders corresponding to each numbered title below. The CD/DVD shall be labelled with date, project location, company and contract or permit number. Record Drawings, Inventory and Material Approvals shall be submitted prior to traffic signal turn-on for review by the Department as described here-in.

Final Project Documentation:

- 1. Record Drawings. Signal plans of record with field revisions marked in red ink. One hard copy set of 11"x17" record drawings shall also be provided.
- 2. Inventory. Inventory of new and existing traffic signal equipment including cabinet types and devices within cabinets in an Excel spread sheet format. One hard copy shall also be provided.
- 3. Pictures. Digital pictures of a minimum 12M pixels of each intersection approach showing all traffic signal displays and equipment. Pictures shall include controller cabinet equipment in enough detail to clearly identify manufacture and model of major equipment.

- 4. Field Testing. Written notification from the Contractor and the equipment vendor of satisfactory field testing with corresponding material performance measurements, such as for detector loops and fiber optic systems (see Article 801.13). One hard copy of all contract required performance measurement testing shall also be provided.
- 5. Materials Approval. The material approval letter. A hard copy shall also be provided.
- 6. Manuals. Operation and service manuals of the signal controller and associated control equipment. One hard copy shall also be provided.
- 7. Cabinet Wiring Diagram and Cable Logs. Five (5) hard copies 11" x 17" of the cabinet wiring diagrams shall be provided along with electronic pdf and dgn files of the cabinet wiring diagram. Five hard copies of the cable logs and electronic excel files shall be provided with cable #, number of conductors and spares, connected device/signal head and intersection location.
- 8. Controller Programming Settings. The traffic signal controller's timings; backup timings; coordination splits, offsets, and cycles; TBC Time of Day, Week and Year Programs; Traffic Responsive Program, Detector Phase Assignment, Type and Detector Switching; and any other functions programmable from the keyboard. The controller manufacturer shall also supply a printed form, not to exceed 11" x 17" for recording that data noted above. The form shall include a location, date, manufacturer's name, controller model and software version. The form shall be approved by the Engineer and a minimum of three (3) copies must be furnished at each turn-on. The manufacturer must provide all programming information used within the controller at the time of turn-on.
- 9. Warrantees and Guarantees. All manufacturer and contractor warrantees and guarantees required by Article 801.14.
- 10. GPS coordinate of traffic signal equipment as describe in the Record Drawings section herein.

Acceptance of the traffic signal equipment by the Department shall be based upon inspection results at the traffic signal "turn on", completeness of the required documentation and successful operation during a minimum 72 hour "burn-in" period following activation of the traffic signal. If approved, traffic signal acceptance shall be verbal at the "turn on" inspection followed by written correspondence from the Engineer. The Contractor shall be responsible for all traffic signal equipment and associated maintenance thereof until Departmental acceptance is granted.

All equipment and/or parts to keep the traffic signal installation operating shall be furnished by the Contractor. No spare traffic signal equipment is available from the Department.

All punch list work shall be completed within two (2) weeks after the final inspection. The Contractor shall notify the Electrical Maintenance Contractor to inspect all punch list work. Failure to meet these time constraints shall result in liquidated damage charges of \$500 per month per incident.

All cost of work and materials required to comply with the above requirements shall be included in the pay item bid prices, under which the subject materials and signal equipment are paid, and no additional compensation will be allowed. Materials and signal equipment not complying with the above requirements shall be subject to removal and disposal at the Contractor's expense.

Record Drawings.

The requirements listed for Electrical Installation shall apply for Traffic Signal Installations in Article 801.16. Revise the 2nd paragraph of Article 801.16 of the Standard Specifications to read:

"When the work is complete, and seven days before the request for a final inspection, the reducedsize set of contract drawings, stamped "RECORD DRAWINGS", shall be submitted to the Engineer for review and approval and shall be stamped with the date and the signature of the Contractor's supervising Engineer or electrician. The record drawings shall be submitted in PDF format on CDROM as well as hardcopy for review and approval. If the contract consists of multiple intersections, each intersection shall be saved as an individual PDF file with TS# and location name in its file name.

In addition to the record drawings, copies of the final catalog cuts which have been Approved or Approved as Noted shall be submitted in PDF format along with the record drawings. The PDF files shall clearly indicate the pay item either by filename or PDF Table of Contents referencing the respective pay item number for multi-item PDF files. Specific part or model numbers of items which have been selected shall be clearly visible."

As part of the record drawings, the Contractor shall inventory all traffic signal equipment, new or existing, on the project and record information in an Excel spreadsheet. The inventory shall include equipment type, model numbers, software manufacturer and version and quantities.

Add the following to Article 801.16 of the Standard Specifications:

"In addition to the specified record drawings, the Contactor shall record GPS coordinates of the following traffic signal components being installed, modified or being affected in other ways by this contract:

- All Mast Arm Poles and Posts
- Traffic Signal Wood Poles
- Rail Road Bungalow
- UPS
- Handholes
- Conduit roadway crossings
- Controller Cabinets
- Communication Cabinets
- Electric Service Disconnect locations
- CCTV Camera installations
- Fiber Optic Splice Locations
- Conduit Crossings

Datum to be used shall be North American 1983.

Data shall be provided electronically and in print form. The electronic format shall be compatible with MS Excel. Latitude and Longitude shall be in decimal degrees with a minimum of 6 decimal places. Each coordinate shall have the following information:

- File shall be named: TSXXX-YY-MM-DD (i.e. TS22157_15-01-01)
- Each intersection shall have its own file

- Row 1 should have the location name (i.e. IL 31 @ Klausen)
- Row 2 is blank
- Row 3 is the headers for the columns
- Row 4 starts the data
- Column A (Date) should be in the following format: MM/DD/YYYY
- Column B (Item) as shown in the table below
- Column C (Description) as shown in the table below
- Column D and E (GPS Data) should be in decimal form, per the IDOT special provisions

Examples:

Date	Item	Description	Latitude	Longitude
01/01/2015	MP (Mast Arm Pole)	NEQ, NB, Dual, Combination Pole	41.580493	-87.793378
01/01/2015	HH (Handhole)	Heavy Duty, Fiber, Intersection, Double	41.558532	-87.792571
01/01/2015	ES (Electrical Service)	Ground mount, Pole mount	41.765532	-87.543571
01/01/2015	CC (Controller Cabinet)		41.602248	-87.794053
01/01/2015	RSC (Rigid Steel Crossing)	IL 31 east side crossing south leg to center HH at Klausen	41.611111	-87.790222
01/01/2015	PTZ (PTZ)	NEQ extension pole	41.593434	-87.769876
01/01/2015	POST (Post)		41.651848	-87.762053
01/01/2015	MCC (Master Controller Cabinet)		41.584593	-87.793378
01/01/2015	COMC (Communication Cabinet)		41.584600	-87.793432
01/01/2015	BBS (Battery Backup System)		41.558532	-87.792571
01/01/2015	CNCR (Conduit Crossing)	4-inch IL 31 n/o of Klausen	41.588888	-87.794440

Prior to the collection of data, the contractor shall provide a sample data collection of at least six data points of known locations to be reviewed and verified by the Engineer to be accurate within 1 foot. Upon verification, data collection can begin. Data collection can be made as construction progresses, or can be collected after all items are installed. If the data is unacceptable the contractor shall make corrections to the data collection equipment and or process and submit the data for review and approval as specified.

Accuracy. Data collected is to be mapping grade. A handheld mapping grade GPS device shall be used for the data collection. The receiver shall support differential correction and data shall have a minimum 1 foot accuracy after post processing.

GPS receivers integrated into cellular communication devices, recreational and automotive GPS devices are not acceptable.

The GPS shall be the product of an established major GPS manufacturer having been in the business for a minimum of 6 years."

Delete the last sentence of the 3rd paragraph of Article 801.16.

Locating Underground Facilities.

Revise Section 803 to the Standard Specifications to read:

<u>IDOT traffic signal facilities are not part of any of the one-call locating service such as J.U.L.I.E or Digger.</u> If this Contract requires the services of an Electrical Contractor, the Contractor shall be responsible at his/her own expense for locating existing IDOT electrical facilities prior to performing any work. If this Contract does not require the services of an Electrical Contractor, the Contractor may request one free locate for existing IDOT electrical facilities from the District One Electrical Maintenance Contractor prior to the start of any work. Additional requests may be at the expense of the Contractor. The location of underground traffic facilities does not relieve the Contractor of their responsibility to repair any facilities damaged during construction at their expense.

The exact location of all utilities shall be field verified by the Contractor before the installation of any components of the traffic signal system. For locations of utilities, locally owned equipment, and leased enforcement camera system facilities, the local Counties or Municipalities may need to be contacted: in the City of Chicago contact Digger at (312) 744-7000 and for all other locations contact J.U.L.I.E. at 1-800-892-0123 or 811.

Restoration of Work Area.

Add the following article to Section 801 of the Standard Specifications:

801.17 Restoration of work area. Restoration of the traffic signal work area shall be included in the related pay items such as foundation, conduit, handhole, underground raceways, etc. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded. All brick pavers disturbed in the work area shall be restored to their original configuration as directed by the Engineer. All damaged brick pavers shall be replaced with a comparable material approved by the Engineer. Restoration of the work area shall be included in the contract without any extra compensation allowed to the Contractor.

Bagging Signal Heads.

Light tan colored traffic and pedestrian signal reusable covers shall be used to cover dark/unenergized signal sections and visors. Covers shall be made of outdoor fabric with urethane coating for repelling water, have elastic fully sewn around the cover ends for a tight fit over the visor, and have a minimum of two straps with buckles to secure the cover to the backplate. A center mesh strip allows viewing without removal for signal status testing purposes. Covers shall include a message indicating the signal is not in service.

RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM

Effective: May 22, 2002 Revised: July 1, 2015 800.03TS

Description.

This work shall consist of re-optimizing a closed loop traffic signal system according to the following Levels of work.

LEVEL I applies when improvements are made to an existing signalized intersection within an existing closed loop traffic signal system. The purpose of this work is to integrate the improvements to the subject intersection into the signal system while minimizing the impacts to the existing system operation. This type of work would be commonly associated with the addition of signal phases, pedestrian phases, or improvements that do not affect the capacity at an intersection.

LEVEL II applies when improvements are made to an existing signalized intersection within an existing closed loop traffic signal system and detailed analysis of the intersection operation is desired by the engineer, or when a new signalized or existing signalized intersection is being added to an existing system, but optimization of the entire system is not required. The purpose of this work is to optimize the subject intersection, while integrating it into the existing signal system with limited impact to the system operations. This item also includes an evaluation of the overall system operation, including the traffic responsive program.

For the purposes of re-optimization work, an intersection shall include all traffic movements operated by the subject controller and cabinet.

After the signal improvements are completed, the signal shall be re-optimized as specified by an approved Consultant who has previous experience in optimizing Closed Loop Traffic Signal Systems for District One of the Illinois Department of Transportation. The Contractor shall contact the Traffic Signal Engineer at (847) 705-4424 for a listing of approved Consultants. Traffic signal system optimization work, including fine-tuning adjustments of the optimized system, shall follow the requirements stated in the most recent IDOT District 1 SCAT Guidelines, except as note herein.

A listing of existing signal equipment, interconnect information, phasing data, and timing patterns may be obtained from the Department, if available and as appropriate. The existing SCAT Report is available for review at the District One office and if the Consultant provides blank computer discs, copies of computer simulation files for the existing optimized system and a timing database will be made for the Consultant. The Consultant shall confer with the Traffic Signal Engineer prior to optimizing the system to determine if any extraordinary conditions exist that would affect traffic flows in the vicinity of the system, in which case, the Consultant may be instructed to wait until the conditions return to normal or to follow specific instructions regarding the optimization.

(a) LEVEL I Re-Optimization

- 1. The following tasks are associated with LEVEL I Re-Optimization.
- a. Appropriate signal timings shall be developed for the subject intersection and existing timings shall be utilized for the rest of the intersections in the system.

- b. Proposed signal timing plan for the modified intersection(s) shall be forwarded to IDOT for review prior to implementation.
- c. Consultant shall conduct on-site implementation of the timings at the turn-on and make fine-tuning adjustments to the timings of the subject intersection in the field to alleviate observed adverse operating conditions and to enhance operations. The consultant shall respond to IDOT comments and public complaints for a minimum period of 60 days from date of timing plan implementation.
- 2. The following deliverables shall be provided for LEVEL I Re-Optimization.
- a. Consultant shall furnish to IDOT a cover letter describing the extent of the re-optimization work performed.
- b. Consultant shall furnish an updated intersection graphic display for the subject intersection to IDOT and to IDOT's Traffic Signal Maintenance Contractor.

(b) LEVEL II Re-Optimization

- 1. In addition to the requirements described in the LEVEL I Re-Optimization above, the following tasks are associated with LEVEL II Re-Optimization.
- a. Traffic counts shall be taken at the subject intersection(s) after the traffic signals are approved for operation by the Area Traffic Signal Operations Engineer. Manual turning movement counts shall be conducted from 6:30 a.m. to 9:30 a.m., 11:00 a.m. to 1:00 p.m., and 3:30 p.m. to 6:30 p.m. on a typical weekday from midday Monday to midday Friday and on a Saturday and/or Sunday, as directed by the Engineer, to account for special traffic generators such as shopping centers, educational institutes and special event facilities. The turning movement counts shall identify cars, and single-unit, multi-unit heavy vehicles, and transit buses.
- b. As necessary, the intersection(s) shall be re-addressed and all system detectors reassigned in the master controller according to the current standard of District One.
- c. Traffic responsive program operation shall be evaluated to verify proper pattern selection and lack of oscillation and a report of the operation shall be provided to IDOT.
- 2. The following deliverables shall be provided for LEVEL II Re-Optimization.
- a. Consultant shall furnish to IDOT one (1) copy of a technical memorandum for the optimized system. The technical memorandum shall include the following elements:
- (1) Brief description of the project
- (2) Printed copies of the analysis output from Synchro (or other appropriate, approved optimization software file)
- (3) Printed copies of the traffic counts conducted at the subject intersection
- b. Consultant shall furnish to IDOT two (2) CDs for the optimized system. The CDs shall include the following elements:
- (1) Electronic copy of the technical memorandum in PDF format
- (2) Revised Synchro files (or other appropriate, approved optimization software file) including the new signal and the rest of the signals in the closed loop system
- (3) Traffic counts conducted at the subject intersection(s)
- (4) New or updated intersection(s) graphic display file for the subject intersection(s)
- (5) The CD shall be labeled with the IDOT system number and master location, as well as the submittal date and the consultant logo. The CD case shall include a clearly readable label displaying the same information securely affixed to the side and front.

Basis of Payment.

This work shall be paid for at the contract unit price each for RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM – LEVEL I or RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM – LEVEL II, which price shall be payment in full for performing all work described herein per intersection. Following completion of the timings and submittal of specified deliverables, 100 percent of the bid price will be paid. Each intersection will be paid for separately.

GROUNDING OF TRAFFIC SIGNAL SYSTEMS

Effective: May 22, 2002 Revised: July 1, 2015 806.01TS

000.01.0

Revise Section 806 of the Standard Specifications to read:

General.

All traffic signal systems, equipment and appurtenances shall be properly grounded in strict conformance with the NEC. This work shall be in accordance with IDOT's District One Traffic Signal Design Details.

The grounding electrode system shall include a ground rod installed with each traffic signal controller concrete foundation and all mast arm and post concrete foundations. An additional ground rod will be required at locations were measured resistance exceeds 25 ohms. Ground rods are included in the applicable concrete foundation or service installation pay item and will not be paid for separately.

Testing shall be according to Article 801.13 (a) (4) and (5).

- (a) The grounded conductor (neutral conductor) shall be white color coded. This conductor shall be bonded to the equipment grounding conductor only at the Electric Service Installation. All power cables shall include one neutral conductor of the same size.
- (b) The equipment grounding conductor shall be green color coded. The following is in addition to Article 801.04 of the Standard Specifications.
 - Equipment grounding conductors shall be bonded to the grounded conductor (neutral conductor) only at the Electric Service Installation. The equipment grounding conductor is paid for separately and shall be continuous. The Earth shall not be used as the equipment grounding conductor.
 - 2. Equipment grounding conductors shall be bonded, using a UL Listed grounding connector, to all traffic signal mast arm poles, traffic signal posts, pedestrian posts, pull boxes, handhole frames and covers, conduits, and other metallic enclosures throughout the traffic signal wiring system, except where noted herein. Bonding shall be made with a splice and pigtail connection, using a sized compression type copper sleeve, sealant tape, and heat-shrinkable cap. A UL listed electrical joint compound shall be applied to all conductors' terminations, connector threads and contact points. Conduit grounding bushings shall be installed at all conduit terminations including spare or empty conduits.
 - 3. All metallic and non-metallic raceways shall have a continuous equipment grounding conductor, except raceways containing only detector loop lead-in circuits, circuits under 50 volts and/or fiber optic cable will not be required to include an equipment grounding conductor.
- 4. Individual conductor splices in handholes shall be soldered and sealed with heat shrink. When necessary to maintain effective equipment grounding, a full cable heat shrink shall be provided over individual conductor heat shrinks.

(c) The grounding electrode conductor shall be similar to the equipment grounding conductor in color coding (green) and size. The grounding electrode conductor is used to connect the ground rod to the equipment grounding conductor and is bonded to ground rods via exothermic welding, UL listed pressure connectors, and UL listed clamps.

UNDERGROUND RACEWAYS

Effective: May 22, 2002 Revised: July 1, 2015

810.02TS

Revise Article 810.04 of the Standard Specifications to read:

"Installation. All underground conduits shall have a minimum depth of 30-inches (700 mm) below the finished grade."

Add the following to Article 810.04 of the Standard Specifications:

"All metal conduit installed underground shall be Rigid Steel Conduit unless otherwise indicated on the plans."

Add the following to Article 810.04 of the Standard Specifications:

"All raceways which extend outside of a structure or duct bank but are not terminated in a cabinet, junction box, pull box, handhole, post, pole, or pedestal shall extend a minimum or 300 mm (12") or the length shown on the plans beyond the structure or duct bank. The end of this extension shall be capped and sealed with a cap designed for the conduit to be capped.

The ends of rigid metal conduit to be capped shall be threaded, the threads protected with full galvanizing, and capped with a threaded galvanized steel cap.

The ends of rigid nonmetallic conduit and coilable nonmetallic conduit shall be capped with a rigid PVC cap of not less than 3 mm (0.125") thick. The cap shall be sealed to the conduit using a room-temperature-vulcanizing (RTV) sealant compatible with the material of both the cap and the conduit. A washer or similar metal ring shall be glued to the inside center of the cap with epoxy, and the pull cord shall be tied to this ring."

MAINTENANCE OF EXISTING TRAFFIC SIGNAL AND FLASHING BEACON INSTALLATION

Effective: May 22, 2002 Revised: July 1, 2015

850.01TS

General.

- 1. Full maintenance responsibility shall start as soon as the Contractor begins any physical work on the Contract or any portion thereof. If Contract work is started prior to a traffic signal inspection, maintenance of the traffic signal installation(s) will be transferred to the Contractor without an inspection.
- 2. The Contractor shall have electricians with IMSA Level II certification on staff to provide signal maintenance. A copy of the certification shall be immediately available upon request of the Engineer.
- 3. This item shall include maintenance of all traffic signal equipment and other connected and related equipment such as flashing beacons, emergency vehicle pre-emption equipment, master controllers, uninterruptable power supply (UPS and batteries), PTZ cameras, vehicle detection, handholes, lighted signs, telephone service installations, communication cables, conduits to adjacent intersections, and other traffic signal equipment.
- 4. Regional transit, County and other agencies may also have equipment connected to existing traffic signal or peripheral equipment such as PTZ cameras, switches, transit signal priority (TSP and BRT) servers, radios and other devices that shall be included with traffic signal maintenance at no additional cost to the contract.
- 5. Maintenance shall not include Automatic Traffic Enforcement equipment, such as Red Light Enforcement cameras, detectors, or peripheral equipment. This equipment is operated and maintained by the local municipality and should be de-activated while on contractor maintenance.
- 6. The energy charges for the operation of the traffic signal installation shall be paid for by the Contractor.

Maintenance.

1. The Contractor shall check all controllers every two (2) weeks, which will include visually inspecting all timing intervals, relays, detectors, and pre-emption equipment to ensure that they are functioning properly. The Contractor shall check signal system communications and phone lines to assure proper operation. This item includes, as routine maintenance, all portions of emergency vehicle pre-emption equipment. The Contractor shall maintain in stock at all times a sufficient amount of materials and equipment to provide effective temporary and permanent repairs. Prior to the traffic signal maintenance transfer, the contractor shall supply a detailed maintenance schedule that includes dates, locations, names of electricians providing the required checks and inspections along with any other information requested by the Engineer.

- 2. The Contractor is advised that the existing and/or span wire traffic signal installation must remain in operation during all construction stages, except for the most essential down time. Any shutdown of the traffic signal installation, which exceeds fifteen (15) minutes, must have prior approval of the Engineer. Approval to shut down the traffic signal installation will only be granted during the period extending from 10:00 a.m. to 3:00 p.m. on weekdays. Shutdowns shall not be allowed during inclement weather or holiday periods.
- 3. The Contractor shall provide immediate corrective action when any part or parts of the system fail to function properly. Two far side heads facing each approach shall be considered the minimum acceptable signal operation pending permanent repairs. When repairs at a signalized intersection require that the controller be disconnected or otherwise removed from normal operation, and power is available, the Contractor shall place the traffic signal installation on flashing operation. The signals shall flash RED for all directions unless a different indication has been specified by the Engineer. The Contractor shall be required to place stop signs (R1-1-36) at each approach of the intersection as a temporary means of regulating traffic. When the signals operate in flash, the Contractor shall furnish and equip all their vehicles assigned to the maintenance of traffic signal installations with a sufficient number of stop signs as specified herein. The Contractor shall maintain a sufficient number of spare stop signs in stock at all times to replace stop signs which may be damaged or stolen.
- 4. The Contractor shall provide the Engineer with 2 (two) 24 hour telephone numbers for the maintenance of the traffic signal installation and for emergency calls by the Engineer.
- 5. Traffic signal equipment which is lost or not returned to the Department for any reason shall be replaced with new equipment meeting the requirements of the Standard Specifications and these special provisions.
- 6. The Contractor shall respond to all emergency calls from the Department or others within one (1) hour after notification and provide immediate corrective action. When equipment has been damaged or becomes faulty beyond repair, the Contractor shall replace it with new and identical equipment. The cost of furnishing and installing the replaced equipment shall be borne by the Contractor at no additional charge to the contract. The Contractor may institute action to recover damages from a responsible third party. If at any time the Contractor fails to perform all work as specified herein to keep the traffic signal installation in proper operating condition or if the Engineer cannot contact the Contractor's designated personnel, the Engineer shall have the State's Electrical Maintenance Contractor perform the maintenance work. The Contractor shall be responsible for all of the State's Electrical Maintenance Contractor's costs and liquidated damages of \$1000 per day per occurrence. The State's Electrical Maintenance Contractor shall bill the Contractor for the total cost of the work. The Contractor shall pay this bill within thirty (30) days of the date of receipt of the invoice or the cost of such work will be deducted from the amount due the Contractor. The Contractor shall allow the Electrical Maintenance Contractor to make reviews of the Existing Traffic Signal Installation that has been transferred to the Contractor for Maintenance.
- 7. Any proposed activity in the vicinity of a highway-rail grade crossing must adhere to the guidelines set forth in the current edition of the Manual on Uniform Traffic Control Devices

(MUTCD) regarding work in temporary traffic control zones in the vicinity of highway-rail grade crossings which states that lane restrictions, flagging, or other operations shall not create conditions where vehicles can be queued across the railroad tracks. If the queuing of vehicles across the tracks cannot be avoided, a uniformed law enforcement officer or flagger shall be provided at the crossing to prevent vehicles from stopping on the tracks, even if automatic warning devices are in place.

- 8. Equipment included in this item that is damaged or not operating properly from any cause shall be replaced with new equipment meeting current District One traffic signal specifications and provided by the Contractor at no additional cost to the Contract and/or owner of the traffic signal system, all as approved by the Engineer. Final replacement of damaged equipment must meet the approval of the Engineer prior to or at the time of final inspection otherwise the traffic signal installation will not be accepted. Cable splices outside the controller cabinet shall not be allowed.
- 9. Automatic Traffic Enforcement equipment, such as Red Light Enforcement cameras, detectors, and peripheral equipment, damaged or not operating properly from any cause, shall be the responsibility of the municipality or the Automatic Traffic Enforcement Company per Permit agreement.
- 10. The Contractor shall be responsible to clear snow, ice, dirt, debris or other condition that obstructs visibility of any traffic signal display or access to traffic signal equipment.
- 11. The Contractor shall maintain the traffic signal in normal operation during short or long term loss of utility or battery back-up power at critical locations designated by the Engineer. Critical locations may include traffic signals interconnected to railroad warning devices, expressway ramps, intersection with an SRA route, critical corridors or other locations identified by the Engineer. Temporary power to the traffic signal must meet applicable NEC and OSHA guidelines and may include portable generators and/or replacement batteries. Temporary power to critical locations shall not be paid for separately but shall be included in the contract.
- 12. Temporary replacement of damaged or knockdown of a mast arm pole assembly shall require construction of a full or partial span wire signal installation or other method approved by the Engineer to assure signal heads are located overhead and over traveled pavement. Temporary replacement of mast arm mount signals with post mount signals will not be permitted.

Basis of Payment.

This work will be paid for at the contract unit price per each for MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION. Each intersection will be paid for separately. Maintenance of a standalone and or not connected flashing beacon shall be paid for at the contract unit price for MAINTENANCE OF EXISITNG FLASHING BEACON INSTALLATION. Each flashing beacon will be paid for separately.

ELECTRIC CABLE

Effective: May 22, 2002 Revised: July 1, 2015

873.01TS

Delete "or stranded, and No. 12 or" from the last sentence of Article 1076.04 (a) of the Standard Specifications.

Add the following to the Article 1076.04(d) of the Standard Specifications:

Service cable may be single or multiple conductor cable.

DETECTOR LOOP

Effective: May 22, 2002 Revised: July 1, 2018

886.01TS

Procedure.

A minimum of seven (7) working days prior to the Contractor cutting loops, the Contractor shall mark the proposed loop locations and contact the Area Traffic Signal Maintenance and Operations Engineer (847) 705-4424 to inspect and approve the layout. When preformed detector loops are installed, the Contractor shall have them inspected and approved prior to the pouring of the Portland cement concrete surface, using the same notification process as above.

Installation.

Revise Article 886.04 of the Standard Specifications to read:

Loop detectors shall be installed according to the requirements of the "District One Standard Traffic Signal Design Details." Saw-cuts (homeruns on preformed detector loops) from the loop to the edge of pavement shall be made perpendicular to the edge of pavement when possible in order to minimize the length of the saw-cut (homerun on preformed detector loops) unless directed otherwise by the Engineer or as shown on the plan.

The detector loop cable insulation shall be labeled with the cable specifications.

Each loop detector lead-in wire shall be labeled in the handhole using a water proof tag, from an approved vendor, secured to each wire with nylon ties.

Resistance to ground shall be a minimum of 100 mega-ohms under any conditions of weather or moisture. Inductance shall be more than 50 and less than 700 microhenries. Quality readings shall be more than 5.

(a) Type I. All loops installed in new asphalt pavement shall be installed in the binder course and not in the surface course. The edge of pavement, curb and handhole shall be cut with a 1/4 inch (6.3 mm) deep x 4 inches (100 mm) saw cut to mark location of each loop cable.

- (b) Loop sealant shall be two-component thixotropic chemically cured polyurethane from an approved vendor. The sealant shall be installed 1/8 inch (3 mm) below the pavement surface. If installed above the surface the excess shall be removed immediately.
- (c) Preformed. This work shall consist of furnishing and installing a rubberized or cross linked polyethylene heat resistant preformed traffic signal loop in accordance with the Standard Specifications, except for the following:
- (d) Preformed detector loops shall be installed in the sub-base under the Portland cement concrete pavement. Loop lead-ins shall be extended to a temporary protective enclosure near the proposed handhole location. The protective enclosure shall provide sufficient protection from other construction activities and may be buried for additional protection.
- (e) Handholes shall be placed next to the shoulder or back of curb when preformed detector loops enter the handhole. CNC, included in this pay item, shall be used to protect the preformed lead-ins from back of curb to the handhole.
- (f) Preformed detector loops shall be factory assembled with ends capped and sealed against moisture and other contaminants. The loop configurations and homerun lengths shall be assembled for the specific application. The loop and homerun shall be constructed using 5/8 inch (16 mm) outside diameter (minimum), 3/8 inch (9.5 mm) inside diameter (minimum) Class A oil resistant synthetic cord reinforced hydraulic hose with 250 psi (1,720 kPa) internal pressure rating or a similarly sized XLPE cable jacket. Hose for the loop and homerun assembly shall be one continuous piece. No joints or splices shall be allowed in the hose except where necessary to connect homeruns to the loops. This will provide maximum wire protection and loop system strength. Hose tee connections shall be heavy duty high temperature synthetic rubber. The tee shall be of proper size to attach directly to the hose, minimizing glue joints. The tee shall have the same flexible properties as the hose to insure that the whole assembly can conform to payement movement and shifting without cracking or breaking. For XLPE jacketed preformed loops, all splice connections shall be soldered, sealed, and tested before being sealed in a high impact glass impregnated plastic splice enclosure. The wire used shall be #16 THWN stranded copper. The number of turns in the loop shall be application specific. Homerun wire pairs shall be twisted a minimum of eight turns per foot. No wire splices will be allowed in the preformed loop assembly. The loop and homeruns shall be filled and sealed with a flexible sealant to insure complete moisture blockage and further protect the wire. The preformed loops shall be constructed to allow a minimum of 6.5 feet of extra cable in the handhole.

Method of Measurement.

Add the following to Article 886.05 of the Standard Specifications:

Preformed detector loops will be measured along the detector loop embedded in the pavement, rather than the actual length of the wire. Detector loop measurements shall include the saw cut and the length of the detector loop wire to the edge of pavement. The detector loop wire, including all necessary connections for proper operations, from the edge of pavement to the handhole, shall be included in the price of the detector loop. CNC, trench and backfill, and drilling of pavement or handholes shall be included in detector loop quantities.

Basis of Payment.

This work shall be paid for at the contract unit price per foot (meter) for DETECTOR LOOP, TYPE I or PREFORMED DETECTOR LOOP as specified in the plans, which price shall be payment in full for furnishing and installing the detector loop and all related connections for proper operation.

PEDESTRIAN SIGNAL POST

Effective: January 1, 2020 875.02TS

Description.

This work shall consist of furnishing and installing a metal pedestrian signal post. All installations shall meet the requirements of the "District One Standard Traffic Signal Design Details".

Materials.

- a. General. The pedestrian signal post shall be designed to support the traffic signal loading shown on the plans. The design and fabrication shall be according to the Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, as published by AASHTO.
- b. Post. The post shall be made of steel or aluminum and have an outside diameter of 4 1/2 in. The post shall be threaded for assembly to the base. Aluminum posts shall be according to the specifications for Schedule 80 aluminum pipe. Steel posts shall be according to the specifications for Schedule 40 steel pipe.
- c. Base. The base of a steel post shall be cast iron. The base of an aluminum post shall be aluminum. The base shall be threaded for the attachment to the threaded post. The base shall be approximately 10 in. high and 6 3/4 in. square at the bottom. The bottom of the base shall be designed to accept four 5/8 in. diameter anchor rods evenly spaced in a 6 in. diameter circle. The base shall be true to pattern, with sharp clean cutting ornamentation, and equipped with access doors for cable handling. The door shall be fastened to the base with stainless steel screws. A grounding lug shall be provided inside the base.
- d. Anchor Rods. The anchor rods shall be 5/8 in. in diameter and 16 in. long and shall be according to Article 1006.09. The anchor rods shall be threaded approximately 6 in. at one end and have a bend at the other end. The first 12 in. at the threaded end shall be galvanized. One each galvanized nut and trapezoidal washer shall be furnished with each anchor rod. The washer shall be properly sized to fully engage and sit flush on all sides of the slot of the base plate.

The aluminum post and base shall be drilled at the third points around the diameter and 1/4 in. by 2 in. stainless steel bolts shall be inserted to prevent the post from turning and wobbling.

e. Finish. The steel post, steel post cap and the cast iron base shall be hot-dipped galvanized according to AASHTO M 111. If the Department approves painting, powder coating by the manufacturer will be required over the galvanization in accordance with 851.01TS TRAFFIC SIGNAL PAINTING Special Provisions. If the post and the base are threaded after the galvanization, the bare exposed metal shall be immediately cleaned to remove all cutting solvents and oils, and then spray painted with two coats of an approved galvanized paint.

The aluminum post shall have a natural finish, 100 grit or finer.

Installation.

The pedestrian signal post shall be erected plumb, securely bolted to a concrete foundation, and grounded to a ground rod according to the details shown on the plans. No more than 3/4 in. of the post threads shall protrude above the base.

A post cap shall be furnished and installed on the top of the post. The post cap shall match the material of the post. The Contractor shall apply an anti-seize paste compound on all nuts and bolts prior to assembly.

Prior to the assembly, the Contractor shall apply two additional coats of galvanized paint on the threads of the post and the base. The Contractor shall use a fabric post tightener to screw the post to the base.

Basis of Payment.

This work will be paid for at the contract unit price per each for PEDESTRIAN SIGNAL POST, of the length specified.

CONCRETE FOUNDATION, PEDESTRIAN POST

Effective: April 1, 2019 Revised: November 1, 2020

878.03TS

This item shall follow Section 878. Traffic Signal Concrete Foundation of the Standard Specifications.

No foundation is to be poured until the Resident Engineer gives his/her approval as to the depth of the foundation.

Basis of Payment.

This work will be paid for at the contract unit price per foot of depth of CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER.

LIGHT EMITTING DIODE (LED) PEDESTRIAN SIGNAL HEAD

Effective: May 22, 2002 Revised: July 1, 2015

881.01TS

Add the following to the third paragraph of Article 881.03 of the Standard Specifications:

No mixing of different types of pedestrian traffic signals or displays will be permitted.

Add the following to Article 881.03 of the Standard Specifications:

- (a) Pedestrian Countdown Signal Heads.
- (1) Pedestrian Countdown Signal Heads shall not be installed at signalized intersections where traffic signals and railroad warning devices are interconnected.
- (2) Pedestrian Countdown Signal Heads shall be 16 inch (406mm) x 18 inch (457mm), for single units with glossy yellow or black polycarbonate housings. All pedestrian head housings shall be the same color (yellow or black) at the intersection. For new signalized intersections and existing signalized intersections where all pedestrian heads are being replaced, the proposed head housings shall be black. Where only selected heads are being replaced, the proposed head housing color (yellow or black) shall match existing head housings. Connecting hardware and mounting brackets shall be polycarbonate (black). A corrosion resistant anti-seize lubricant shall be applied to all metallic mounting bracket joints, and shall be visible to the inspector at the signal turn-on.
- (3) Each pedestrian signal LED module shall be fully MUTCD compliant and shall consist of double overlay message combining full LED symbols of an Upraised Hand and a Walking Person. "Egg Crate" type sun shields are not permitted. Numerals shall measure 9 inches (229mm) in height and easily identified from a distance of 120 feet (36.6m).

Materials.

Add the following to Article 1078.02 of the Standard Specifications:

General.

- 1. The module shall operate in one mode: Clearance Cycle Countdown Mode Only. The countdown module shall display actual controller programmed clearance cycle and shall start counting when the flashing clearance signal turns on and shall countdown to "0" and turn off when the steady Upraised Hand (symbolizing Don't Walk) signal turns on. Module shall not have user accessible switches or controls for modification of cycle.
- 2. At power on, the module shall enter a single automatic learning cycle. During the automatic learning cycle, the countdown display shall remain dark.
- 3. The module shall re-program itself if it detects any increase or decrease of Pedestrian Timing. The counting unit will go blank once a change is detected and then take one complete pedestrian cycle (with no counter during this cycle) to adjust its buffer timer.
- 4. If the controller preempts during the Walking Person (symbolizing Walk), the countdown will follow the controller's directions and will adjust from Walking Person to flashing Upraised Hand. It will start to count down during the flashing Upraised Hand.
- 5. If the controller preempts during the flashing Upraised Hand, the countdown will continue to count down without interruption.
- 6. The next cycle, following the preemption event, shall use the correct, initially programmed values.
- 7. If the controller output displays Upraised Hand steady condition and the unit has not arrived to zero or if both the Upraised Hand and Walking Person are dark for some reason, the unit suspends any timing and the digits will go dark.
- 8. The digits will go dark for one pedestrian cycle after loss of power of more than 1.5 seconds.
- 9. The countdown numerals shall be two (2) "7 segment" digits forming the time display utilizing two rows of LEDs.
- 10. The LED module shall meet the requirements of the Institute of Transportation Engineers (ITE) LED purchase specification, "Pedestrian Traffic Control Signal Indications Part 2: LED Pedestrian Traffic Signal Modules," or applicable successor ITE specifications, except as modified herein.
- 11. The LED modules shall provide constant light output under power. Modules with dimming capabilities shall have the option disabled or set on a non-dimming operation.
- 12. In the event of a power outage, light output from the LED modules shall cease instantaneously.

- 13. The LEDs utilized in the modules shall be AllnGaP technology for Portland Orange (Countdown Numerals and Upraised Hand) and GaN technology for Lunar White (Walking Person) indications.
- 14. The individual LEDs shall be wired such that a catastrophic loss or the failure of one or more LED will not result in the loss of the entire module.

Basis of Payment.

Add the following to the first paragraph of Article 881.04 of the Standard Specifications:

The price shall include furnishing the equipment described above, all mounting hardware and installing them in satisfactory operating condition.

Add the following to Article 881.04 of the Standard Specifications:

If the work consists of retrofitting an existing polycarbonate pedestrian signal head and pedestrian countdown signal head with light emitting diodes (LEDs), it will be paid for as a PEDESTRIAN SIGNAL HEAD, LED, RETROFIT, of the type specified, and of the particular kind of material, when specified. Price shall be payment in full for furnishing the equipment described above including LED modules, all mounting hardware, and installing them in satisfactory operating condition.

ACCESSIBLE PEDESTRIAN SIGNALS

Effective: April 1, 2003 Revised: July 1, 2015 888.02TS

Description.

This work shall consist of furnishing and installing pedestrian push button accessible pedestrian signals (APS) type. Each APS shall consist of an interactive vibrotactile pedestrian pushbutton with speaker, an informational sign, a light emitting diode (LED) indicator light, a solid state electronic control board, a power supply, wiring, and mounting hardware. The APS shall meet the requirements of the MUTCD and Sections 801 and 888 of the Standard Specifications, except as modified herein.

Electrical Requirements.

The APS shall operate with systems providing 95 to 130 VAC, 60 Hz and throughout an ambient air temperature range of -29 to +160 $^{\circ}$ F (-34 to +70 $^{\circ}$ C).

The APS shall contain a power protection circuit consisting of both fuse and transient protection.

Audible Indications.

A pushbutton locator tone shall sound at each pushbutton with volume settings a maximum of 5 dBA louder than ambient sound.

If two accessible pedestrian pushbuttons are placed less than 10 ft (3 m) apart or placed on the same pole, the audible walk indication shall be a speech walk message.

A clear, verbal message shall be used to communicate the pedestrian walk interval. This message shall sound throughout the WALK interval only. The verbal message shall be modeled after: "<u>Street Name</u>." Walk Sign is on to cross "<u>Street Name</u>." No other messages shall be used to denote the WALK interval.

Where two accessible pedestrian pushbuttons are separated by at least 10 ft (3 m), the walk indication shall be an audible percussive tone. It shall repeat at 8 to 10 ticks per second with a dominant frequency of 880 Hz.

Automatic volume adjustments in response to ambient traffic sound level shall be provided up to a maximum volume of 100 dBA. Locator tone and verbal messages shall be no more than 5 dB louder than ambient sound.

Pedestrian Pushbutton.

Pedestrian pushbuttons shall be at least 2 in. (50 mm) in diameter or width. The force required to activate the pushbutton shall be no greater than 3.5 lb (15.5 N).

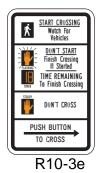
A red LED indicator shall be located on or near the pushbutton which, when activated, acknowledges the pedestrians request to cross the street. The recorded messages and roadway designations shall be confirmed with the engineer and included with submitted product data.

Signage.

A sign shall be located immediately above the pedestrian pushbutton and parallel to the crosswalk controlled by the pushbutton. The sign shall be one of the following standard MUTCD designs: R10-3b, R10-3d, or R10-3e.







Tactile Arrow.

A tactile arrow, pointing in the direction of travel controlled by a pushbutton, shall be provided either on the pushbutton or its sign.

Vibrotactile Feature.

The pushbutton shall pulse when depressed and shall vibrate continuously throughout the WALK interval.

Training.

The Contractor shall provide APS onsite training for Department personnel and person(s) or group that requested the installation of the APS. APS features and operation shall be demonstrated during the training. The training shall be presented by the APS equipment supplier. Time, date, and location of the training and demonstration shall be coordinated with the Engineer.

Basis of Payment.

This work will be paid for at the contract unit price each for a pedestrian push button, ACCESSIBLE PEDESTRIAN SIGNALS type and shall include furnishing, installation, mounting hardware, message programming, and training.

MODIFY EXISTING CONTROLLER CABINET

<u>Description:</u> This work shall consist of modifying the existing controller cabinet to operate the proposed pedestrian pushbutton equipment. This includes making all necessary modifications to the controller cabinet including field wiring, hardware, load switches and labor to achieve proper operation of the intersection's pushbuttons as shown on the plans.

<u>General:</u> The work shall be in accordance with Sections 857, 863, 873, and 895 of the Standard Specifications and shall include all necessary wiring, hardware, and modifications to the existing controller cabinet to implement the proposed scope of work as shown on the plans. All necessary materials, parts, and labor required for modifying the controller cabinet to accommodate proposed signal phasing including field wiring, shall be considered included in this pay item.

<u>Basis of Payment:</u> This work will be paid for at the contract unit price EACH for MODIFY EXISTING CONTROLLER CABINET, which price shall be payment in full for furnishing all materials, hardware, wiring, and labor required to modify the existing controller and cabinet necessary for proper operation of the intersection's pedestrian pushbutton equipment to the satisfaction of the Engineer.

IDOT TRAINING PROGRAM GRADUATE ON-THE-JOB TRAINING SPECIAL PROVISION (TPG)

Effective: August 1, 2012 Revised: February 2, 2017

In addition to the Contractor's equal employment opportunity (EEO) affirmative action efforts undertaken as required by this Contract, the Contractor is encouraged to participate in the incentive program described below to provide additional on-the-job training to certified graduates of the IDOT pre-apprenticeship training program, as outlined in this Special Provision.

IDOT funds, and various Illinois community colleges operate, pre-apprenticeship training programs throughout the State to provide training and skill-improvement opportunities to promote the increased employment of minority groups, disadvantaged persons and women in all aspects of the highway construction industry. The intent of this IDOT Pre-Apprenticeship Training Program Graduate (TPG) special provision (Special Provision) is to place these certified program graduates on the project site for this Contract in order to provide the graduates with meaningful on-the-job training. Pursuant to this Special Provision, the Contractor must make every reasonable effort to recruit and employ certified TPG trainees to the extent such individuals are available within a practicable distance of the project site.

Specifically, participation of the Contractor or its subcontractor in the Program entitles the participant to reimbursement for graduates' hourly wages at \$15.00 per hour per utilized TPG trainee, subject to the terms of this Special Provision. Reimbursement payment will be made even though the Contractor or subcontractor may also receive additional training program funds from other non-IDOT sources for other non-TPG trainees on the Contract, provided such other source does not specifically prohibit the Contractor or subcontractor from receiving reimbursement from another entity through another program, such as IDOT through the TPG program. With regard to any IDOT funded construction training program other than TPG, however, additional reimbursement for other IDOT programs will not be made beyond the TPG Program described in this Special Provision when the TPG Program is utilized.

No payment will be made to the Contractor if the Contractor or subcontractor fails to provide the required on-site training to TPG trainees, as solely determined by IDOT. A TPG trainee must begin training on the project as soon as the start of work that utilizes the relevant trade skill and the TPG trainee must remain on the project site through completion of the Contract, so long as training opportunities continue to exist in the relevant work classification. Should a TPG trainee's employment end in advance of the completion of the Contract, the Contractor must promptly notify the IDOT District EEO Officer for the Contract that the TPG's involvement in the Contract has ended. The Contractor must supply a written report for the reason the TPG trainee involvement terminated, the hours completed by the TPG trainee on the Contract, and the number of hours for which the incentive payment provided under this Special Provision will be, or has been claimed for the separated TPG trainee.

Finally, the Contractor must maintain all records it creates as a result of participation in the Program on the Contract, and furnish periodic written reports to the IDOT District EEO Officer

that document its contractual performance under and compliance with this Special Provision. Finally, through participation in the Program and reimbursement of wages, the Contractor is not relieved of, and IDOT has not waived, the requirements of any federal or state labor or employment law applicable to TPG workers, including compliance with the Illinois Prevailing Wage Act.

METHOD OF MEASUREMENT: The unit of measurement is in hours.

BASIS OF PAYMENT: This work will be paid for at the contract unit price of \$15.00 per hour for each utilized certified TPG Program trainee (TRAINEES TRAINING PROGRAM GRADUATE). The estimated total number of hours, unit price, and total price must be included in the schedule of prices for the Contract submitted by Contractor prior to beginning work. The initial number of TPG trainees for which the incentive is available for this contract is 1.

The Department has contracted with several educational institutions to provide screening, tutoring and pre-training to individuals interested in working as a TPG trainee in various areas of common construction trade work. Only individuals who have successfully completed a Pre-Apprenticeship Training Program at these IDOT approved institutions are eligible to be TPG trainees. To obtain a list of institutions that can connect the Contractor with eligible TPG trainees, the Contractor may contact: HCCTP TPG Program Coordinator, Office of Business and Workforce Diversity (IDOT OBWD), Room 319, Illinois Department of Transportation, 2300 S. Dirksen Parkway, Springfield, Illinois 62764. Prior to commencing construction with the utilization of a TPG trainee, the Contractor must submit documentation to the IDOT District EEO Officer for the Contract that provides the names and contact information of the TPG trainee(s) to be trained in each selected work classification, proof that that the TPG trainee(s) has successfully completed a Pre-Apprenticeship Training Program, proof that the TPG is in an Apprenticeship Training Program approved by the U.S. Department of Labor Bureau of Apprenticeship Training, and the start date for training in each of the applicable work classifications.

To receive payment, the Contractor must provide training opportunities aimed at developing a full journeyworker in the type of trade or job classification involved. During the course of performance of the Contract, the Contractor may seek approval from the IDOT District EEO Officer to employ additional eligible TPG trainees. In the event the Contractor subcontracts a portion of the contracted work, it must determine how many, if any, of the TPGs will be trained by the subcontractor. Though a subcontractor may conduct training, the Contractor retains the responsibility for meeting all requirements imposed by this Special Provision. The Contractor must also include this Special Provision in any subcontract where payment for contracted work performed by a TPG trainee will be passed on to a subcontractor.

Training through the Program is intended to move TPGs toward journeyman status, which is the primary objective of this Special Provision. Accordingly, the Contractor must make every effort to enroll TPG trainees by recruitment through the Program participant educational institutions to the extent eligible TPGs are available within a reasonable geographic area of the project. The Contractor is responsible for demonstrating, through documentation, the recruitment efforts it has undertaken prior to the determination by IDOT whether the

Contractor is in compliance with this Special Provision, and therefore, entitled to the Training Program Graduate reimbursement of \$15.00 per hour.

Notwithstanding the on-the-job training requirement of this TPG Special Provision, some minimal off-site training is permissible as long as the offsite training is an integral part of the work of the contract, and does not compromise or conflict with the required on-site training that is central to the purpose of the Program. No individual may be employed as a TPG trainee in any work classification in which he/she has previously successfully completed a training program leading to journeyman status in any trade, or in which he/she has worked at a journeyman level or higher.

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

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
X	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."



12 months

Storm Water Pollution Prevention Plan



Route	Marked Route	Section Number	
Des Plaines River Trail - Segment 1		17-00034-01-BT	
Project Number	County	Contract Number	
MAQA(510)	Cook	61J18	
This plan has been prepared to comply with the provisions of the National Pollutant Discharge Elimination System (NPDES) Permit No. ILR10 (Permit ILR10), issued by the Illinois Environmental Protection Agency (IEPA) for storm water discharges from construction site activities.			
I certify under penalty of law that this docume system designed to assure that qualified personate person or persons who manage the system submitted is, to the best of my knowledge and submitting false information, including the pos	onnel properly gathered and evaluated the m, or those persons directly responsible fo belief, true, accurate and complete. I am	e information submitted. Based or or gathering the information, the in a aware that there are significant p	on my inquiry of nformation
Signature			Date
and lettelelle			10-20-22
Print Name	Title	Agency	
Sarah Mitchell	City Engineer	City of Park Ridge	
A. Provide a description of the project location The project involves work along the exports of Touhy Avenue (from approxing County, Illinois (Latitude: N 42° 0' 13"; Third Principal Meridian A sidepath is also proposed along the 75+46.	xisting Des Plaines River Trail Sys nately STA 237+53 to STA 166+2 Longitude: W 87° 51' 37"); Sectio	stem from south of Devon A 4) in the Forest Preserves o on: 34; Township: 41N; Ran	of Cook ge: 12E of the
B. Provide a description of the construction activity which is the subject of this plan. Include the number of construction stages, drainage improvements, in-stream work, installation, maintenance, removal of erosion measures, and permanent stabilization:			
The work to be performed under this contract consists of reconstruction improvements to an existing multi-use trail. The existing trail alignment will be used to the extent practical. The contract also includes construction of a new sidepath along the north side of Devon Avenue. Work will be completed in four stages (plus a pre-stage [tree protection & removal]) and includes installation/maintenance of erosion & sediment control (ESC) practices; excavation of existing path; filling the existing Devon Avenue underpass; haul away excess excavation/unsuitable material; construction of drainage structures (e.g., culverts); placement of aggregate or granular material (subgrade, base course & surface course); installation of Portland cement concrete; construction of retaining wall; furnish & place topsoil; final stabilization; removal of temporary ESC measures; and all incidental & collateral work necessary to complete the project as shown on the plans and described in the special provisions.			
C. Provide the estimated duration of this project	et:		

D.	The total area of the construction site is estimated to be $\frac{6.8}{2}$	acres.		
	The total area of the site estimated to be disturbed by excavation, grading or other actions are actions of the site estimated to be disturbed by excavation, grading or other actions are actions of the site estimated to be disturbed by excavation, grading or other actions are actions of the site estimated to be disturbed by excavation.	ctivities is	3.3	acres.

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:

Pre-construction weighted C=0.48/Post-construction weighted C=0.53

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

- 192A Del Rey Silt Loam, 0 to 2 percent slopes (K factor = 0.43 high susceptibility of soil erosion)
- 294B Symerton Silt Loam, 2 to 5 percent slopes (K factor = 0.24 low susceptibility of soil erosion)
- 327A/B Fox Silt Loam, 0 to 4 percent slopes (K factor = 0.37 moderate susceptibility of soil erosion)
- 327C2 Fox Silt Loam, Eroded, 4 to 6 percent slopes (K factor = 0.37 moderate susceptibility of soil erosion)
- 571A Whitaker Loam, 0 to 2 percent slopes (K factor = 0.24 low susceptibility of soil erosion)
- 696A Zurich Silt Loam, 0 to 2 percent slopes (K factor = 0.37 moderate susceptibility of soil erosion)
- 802B Orthents, Loamy, Undulating (K factor = 0.37 moderate susceptibility of soil erosion)
- 1107A Sawmill Silty Clay Loam, Undrained, Frequently Flooded, 0 to 2 percent slopes (K factor = 0.37 moderate susceptibility of soil erosion)
- 2811A Urban Land-Anthroportic Udorthents Complex, 0 to 2 percent slopes (K factor not listed)
- * K factor = soil erodibility factor

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

Five wetland/waters of the U.S. areas, including the Des Plaines River, were identified in Segment 1. Total = 24.65+ ac (Wetland #1 = 0.03 ac; Wetland #2 = 0.08 ac; Wetland #3 = 0.02 ac; Wetland #4 = 0.28+ ac; Wetland/Waters #26 = 24.24+ ac). The existing trail alignment will be used to the extent practical. The wetland/waters of the U.S. areas within Segment 1 will be avoided (i.e., no impacts are proposed). ESC Best Management Practices (BMPs) will be used to protect the wetland/waters of the U.S. areas. In a letter dated 06/16/2022, the U.S. Army Corps of Engineers (USACE) determined that a Section 404 Clean Water Act permit was not required for the proposed Segment 1 trail improvements.

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

Based on the Soil Survey of Cook County, the soils throughout the project corridor are predominantly mapped as silt loams. Based on the K factor (soil erodibility factor), the mapped soils throughout most of the project corridor are moderate to highly susceptible to erosion.

Potentially erosive areas associated with the project include idle, disturbed soils throughout the project corridor, most notably in areas with steep slopes and highly erodible soils (refer to the Plan & Profile Sheets and Cross Sections). Steep slopes (approximately 3:1 [H:V]) are located near wetland areas and the Des Plaines River floodplain at the west side of the proposed improvements from approximately STA 112+00 to STA 114+50 and STA 144+50 to 157+25. Based on the K factor (soil erodibility factor), moderate to highly erodible soils are located along this stretch of the improvements.

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.):

See Typical Sections, Construction Staging Details, Existing Conditions & Removal Plan, Plan & Profile Sheets, Erosion Control Plan, and Cross Sections.

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: Forest Preserves of Cook County; Illinois Department of Transportation (IDOT); City of Park Ridge
L. The following is a list of General NPDES ILR40 permittees within whose reporting jurisdiction this project is located:
IDOT; City of Park Ridge ("waiver" per MS4 Status Report at IEPA website)
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:
Receiving water: Des Plaines River Ultimate receiving water: Des Plaines River The receiving water/applicable segment of the Des Plaines River adjacent to the project corridor is not listed as a Biologically Significant Stream by IDNR.
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),

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.

Sensitive environmental resources and areas of the site to be protected or to remain undisturbed are discussed in Section I.O below.

A 50-ft buffer will be provided where practicable and feasible. However, the project involves reconstructing an existing trail within Forest Preserve property - portions of which are located within wetland/stream buffer under existing conditions. No wetland/waters of the U.S. impacts are proposed as part of the improvements (i.e., no Section 404 Clean Water Act Permit is required). Off-site and preserved buffer areas will be protected by perimeter erosion barrier (including a double row of perimeter erosion barrier to meet buffer requirements, where necessary) and other BMPs as discussed in this Storm Water Pollution Prevention Plan (SWPPP) and as shown on the Erosion Control Plan.

A project goal/requirement was to avoid/minimize impacts to environmental (e.g., trees, wetlands, floodplain) and cultural resources located along the project corridor to the extent practical. This goal/requirement resulted in limited work space adjacent to the existing trail and limits structural BMP options. Therefore, vegetation removal, soil exposure, and staging construction activities will be coordinated as necessary to minimize idle, disturbed soils adjacent to buffer areas and wetlands/surface waters. Trail resurfacing is proposed between STA 147+50 and STA 157+00. This stretch of the project is adjacent to 100-year floodplain, floodway, the Des Plaines River/adjacent wetland, buffer, and relatively steep slopes. No soil excavation/soil disturbance is proposed within the trail resurfacing portion of the project.

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.

Wetlands; the Des Plaines River; wetland/stream buffers; 100-year floodplain/riparian areas and floodway; trees; and highly erodible soils

and highly erodible solis			
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:			
The receiving water for this project is the Des Plaines River (AUID IL_G-28).			

Des Plaines River (AUID IL_G-28) is on the 2020/2022 303(d) list (approved by the U.S. Environmental Protection Agency on 06/30/2022). Impairment causes include: unknown causes, chloride, dissolved oxygen (DO), flow regime modification, nitrogen, alteration in streamside or littoral vegetative covers, phosphorus (total),

mercury, polychlorinated biphenyls (PCBs), and fecal coliform.

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:

Upstream and adjacent to the Des Plaines River, the Erosion Control Plan includes perimeter erosion barrier, inlet filters, temporary ditch checks, erosion control blanket and seeding to protect the receiving waters. The project involves reconstructing and resurfacing an existing trail within Forest Preserve property. A project goal/requirement was to avoid/minimize impacts to environmental (e.g., trees, wetlands, floodplain) and cultural resources located along the project corridor to the extent practical. This goal/requirement resulted in limited work space adjacent to the existing trail and limits structural BMP options. Therefore, vegetation removal, soil exposure, and staging construction activities will be coordinated as necessary to minimize idle, disturbed soils adjacent to the Des Plaines River, floodplain/floodway, and adjacent wetlands.

Provide a description of the location(s) of direct discharge from the project site to the 303(d) water body:

No direct discharge points (i.e., outlets) are proposed at the Des Plaines River. However, between approximate STA 144+50 and 157+25, the proposed improvements are located immediately adjacent to the Des Plaines River and its 100-year floodplain/floodway. In addition, the proposed improvements include construction of two 18-inch diameter cross-culverts that will outlet at the Des Plaines River floodplain at approximate STA 132+50. Storm water flows from the proposed improvements are anticipated to reach the Des Plaines River via surface runoff near these locations.

Provide a description of the location(s) of any dewatering discharges to the MS4 and/or water body:

Dewatering discharges may be necessary at the Devon Avenue underpass (near the intersection with Dee Road - refer to the Existing Conditions and Removal Plan) to fill the existing structure. Contractor shall provide additional dewatering information per Part II.G below, as necessary.

Applicable Federal, Tribal, State, or Local Programs

See Part II.F below.

No floodplain fill is proposed as part of the improvements. However, between approximate STA 144+50 and 157 +25, the proposed improvements are located immediately adjacent to the Des Plaines River and its 100-year floodplain/floodway. In addition, the proposed improvements include construction of two 18-inch diameter crossculverts that will outlet at the Des Plaines River floodplain at approximate STA 132+50.

Trail resurfacing is proposed between STA 147+50 and STA 157+00. This stretch of the project is adjacent to 100-year floodplain and floodway. No soil excavation/soil disturbance is proposed within the trail resurfacing portion of the project.

Upstream and adjacent to the Des Plaines River floodplain, perimeter erosion barrier, temporary ditch checks, erosion control blanket, and seeding will be installed, as necessary. Refer to the Plan & Profile Sheets and the Erosion Control Plan for additional information.

Historic Preservation

In a memorandum dated, 11/17/2020, IDOT's Cultural Resources Unit made a "No Historic Properties Affected" finding pursuant to Section 106 of the National Historic Preservation Act. During Phase I coordination, it was determined that potential site impacts could be avoided through BMPs, including soil disturbance restrictions. BMPs have been incorporated into the Site Improvement Plans and Special Provisions, as necessary.

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:

Not applicable - receiving waterbody stream segment does not have a TMDL

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:

Not applicable - receiving waterbody stream segment do	es not have a TMDL			
f a specific numeric waste load allocation has been established that w necessary steps to meet that allocation:	f 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:			
Not applicable - receiving waterbody stream segment do	es not have a TMDL			
☐ Threatened and Endangered Species/Illinois Natural Areas (INAI)	Nature Preserves			
Based on the Natural Resources Review by IDOT, dated 01/05/2021, there will be no adverse effect by the project on State-listed threatened or endangered species or INAI sites. Additionally, IDOT determined that the proposed improvements are not likely to jeopardize the continued existence of any Federally listed threatened or endangered species or result in the destruction or modification of any critical habitat. Segment 1 is not located within a nature preserve.				
IDOT renewed the Biological Clearance for this project or diameter at breast height shall not be cleared from April 1	· , , — —			
Tree protection (e.g., root pruning and root preservation) Plans, IDOT Standard Specifications, and Special Provisi	•			
Idle, disturbed highly erodible soils shall be stabilized in a the Site Improvement Plans, including General Notes and	,			
⊠ Wetland				
Five wetland/waters of the U.S. areas, including the Des project corridor (see Section I.G above). Wetlands will be erosion barrier, high visibility fencing, and temporary ditch Notes.	protected during construction by using perimeter			
Trail resurfacing is proposed between STA 147+50 and S the Des Plaines River/adjacent wetlands and 100-year flo proposed within the trail resurfacing portion of the project	oodplain. No soil excavation/soil disturbance is			
The following pollutants of concern will be appointed with this conc	struction projects			
 The following pollutants of concern will be associated with this cons Antifreeze / Coolants 	Solid Waste Debris			
	Solvents Waste water from cleaning construction aguipments			
Concrete Curing Compounds Concrete Truck Waste	Waste water from cleaning construction equipments			
Concrete Truck Waste	Other (Specify)			
	Other (Specify)			
☐ Paints ☐ Patroloum (gas, dissal, eil, korosene, bydraulis eil / fluids)	Other (Specify)			
	☐ Other (Specify) ☐ Other (Specify)			
M 2011 Sealittetit				
II. Controls:				

This section of the plan addresses the controls that will be implemented for each of the major construction activities described in Section I.C above and for all use areas, borrow sites, and waste sites. For each measure discussed, the Contractor will be responsible for its implementation as indicated. The Contractor shall provide to the Resident Engineer a plan for the implementation of the measures indicated. The Contractor, and subcontractors, will notify the Resident Engineer of any proposed changes, maintenance, or modifications to keep construction activities compliant with the Permit ILR10. Each such Contractor has signed the required certification on forms which are attached to, and are a part of, this plan:

- A. Erosion and Sediment Controls: At a minimum, controls must be coordinated, installed and maintained to:
 - 1. Minimize the amount of soil exposed during construction activity;
 - 2. Minimize the disturbance of steep slopes;
 - 3. Maintain natural buffers around surface waters, direct storm water to vegetated areas to increase sediment removal and maximize storm water infiltration, unless infeasible;
 - 4. Minimize soil compaction and, unless infeasible, preserve topsoil.
- B. **Stabilization Practices**: Provided below is a description of interim and permanent stabilization practices, including site- specific scheduling of the implementation of the practices. Site plans will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Stabilization practices may include but are not limited to: temporary seeding, permanent seeding, mulching, geotextiles, sodding, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures. Except as provided below in II.B.1 and II.B.2, stabilization measures shall be initiated **immediately** where construction activities have temporarily or permanently ceased, but in no case more than **one (1) day** after the construction activity in that portion of the site has temporarily or permanently ceases on all disturbed portions of the site where construction will not occur for a period of fourteen (14) or more calendar days.
 - 1. Where the initiation of stabilization measures is precluded by snow cover, stabilization measures shall be initiated as soon as practicable.
 - On areas where construction activity has temporarily ceased and will resume after fourteen (14) days, a temporary stabilization method can be used.
 The following stabilization practices will be used for this project:

	Temporary Turf (Seeding, Class 7)
Geotextiles	☐ Temporary Mulching
□ Permanent Seeding	
☐ Preservation of Mature Seeding	Other (Specify)
□ Protection of Trees	Other (Specify)
Sodding	Other (Specify)
	Other (Specify)

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

Trees/vegetation provide erosion control. Perimeter controls will protect trees and buffer areas located in the vicinity of construction activities. Construction activities shall be performed in a manner that limits the amount of exposed soil at any one time. Temporary stabilization measures (including erosion control blanket and temporary seed) shall be installed at idle, disturbed areas in accordance with the NPDES ILR10 permit and the Erosion Control Plan.

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

Permanent seeding (installed with erosion control blanket) shall be used as a permanent erosion control measure.

C. **Structural Practices:** Provided below is a description of structural practices that will be implemented, to the degree attainable, to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices may include but are not limited to: perimeter erosion barrier, earth dikes, drainage swales, sediment traps, ditch checks, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins. The installation of these devices may be subject to Section 404 of the Clean Water Act.

Aggregate Ditch	Stabilized Construction Exits
Concrete Revetment Mats	Stabilized Trench Flow

\boxtimes	Dust Suppression		Slope Mattress	
\boxtimes	Dewatering Filtering		Slope Walls	
	Gabions	\boxtimes	Геmporary Ditch Check	
	In-Stream or Wetland Work		Femporary Pipe Slope Drain	
	Level Spreaders		Femporary Sediment Basin	
	Paved Ditch		Femporary Stream Crossing	
	Permanent Check Dams		Furf Reinforcement Mats	
\boxtimes	Perimeter Erosion Barrier		Other (Specify)	
	Permanent Sediment Basin		Other (Specify)	
\boxtimes	Retaining Walls		Other (Specify)	
	Riprap		Other (Specify)	
\boxtimes	Rock Outlet Protection		Other (Specify)	
	Sediment Trap		Other (Specify)	
\boxtimes	Storm Drain Inlet Protection		Other (Specify)	
	ow the structural practices listed above will be utilized duri			
	s. Dust control (if necessary) shall follow IDOT (e dirt generated by the Contractor's construction dard Specifications.	
water th Site Imp	•	area. NPI	·	
site. Per Perimet the Eng	rimeter erosion barrier allows sediment to settle ter erosion barrier shall not be installed where sl	fron heet ojec	of work areas, including where runoff sheet flows off n runoff before storm water leaves the work area. flow enters the construction site, unless directed by t progresses to eliminate the concentration of runoff ed to trap sediment.	
detain a	• Existing inlets, catch basins, and manholes with open lids shall be protected with appropriate inlet protection to detain and/or filter sediment-laden runoff and allow sediment to settle. Proposed drainage structures, if any, shall be protected with inlet and outlet protection immediately following their construction and prior to receiving runoff from disturbed soils.			
• Stabilize	• Stabilized construction entrance(s) shall be installed at ingress/egress points to reduce or eliminate the tracking			

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

of sediment onto public rights-of-way or streets.

flow immediately after grading.

Temporary sediment controls shall be removed after final stabilization of those portions of the site located upslope of the controls.

 Temporary ditch checks (including aggregate ditch checks) shall be installed at existing ditches (as necessary) to reduce flow velocity and trap sediment. Temporary ditch checks shall be installed in areas of concentrated

- A retaining wall is proposed at the southwest corner of Touhy Avenue and Talcott Road (approximate STA 159+17 to STA 160+42) to hold sloping ground in place and to prevent the erosion and movement of soil.
- Rock outlet protection will be placed at discharge locations as necessary to provide a non-erosive velocity flow from the structure.

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:
Storm water detention was not required for Segment 1.
• Tree preservation, permanent seeding (installed with erosion control blanket), and wetland/waters buffer shall be used as a permanent erosion control measure.
Velocity dissipation device/rock outlet protection.
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:
 Metropolitan Water Reclamation District of Greater Chicago & Park Ridge - Cook County Watershed Management Ordinance (WMO) Permit
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.
1. 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:
5. Panadan Pranta in Still Sti
Approximate duration of the project, including each stage of the project
Rainy season, dry season, and winter shutdown dates

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⊠ No

D. Treatment Chemicals

Will polymer flocculants or treatment chemicals be utilized on this project: Yes

Deployment of Erosion Control Practices

Printed 11/04/22

If yes above, identify where and how polymer flocculants or treatment chemicals will be utilized on this project.

the Engineer prior to the use of any proposed polymer flocculants or treatment chemicals.

Polymer flocculants or treatment controls are not proposed at this time. However, if during construction activities, it is determined that polymer flocculants or treatment chemicals are necessary to maintain permit compliance, the SWPPP shall be updated with the information at Section G below. The Contractor must obtain approval from

E. Permanent (i.e., Post-Construction) Storm Water Management Controls: Provided below is a description of measures that will be

- 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.

All controls shall be maintained in good working order by the General Contractor or Subcontractor. If repair is warranted, it shall be completed as soon as possible. New control measures needed or controls needing repair or modification as a result of an inspection shall be implemented as soon as practical, but no later than seven (7) calendar days following the inspection. Requests for repairs to existing controls or new control measures requested by a Regulatory Agency shall be initiated within 24 hours.

• Inlet Protection: Remove sediment from inlet filter baskets when basket is 25% full or 50% of the fabric pores are covered with silt. Clean filter if standing water is present longer than one hour after a rain event. Clean sediment or replace silt fence when sediment accumulates to one-third the height of the fabric. Where there is evidence of sediment accumulation adjacent to the inlet protection device, remove the deposited sediment by the end of the same business day in which it is found or by the end of the following business day if removal by the same business day is not feasible. Remove trash accumulated around or on top of the inlet protection device. When filter is removed for cleaning, replace fabric if any tear is present.

- Outlet Protection/Riprap: Restore dislodged protection and correct erosion that may occur. Remedy deficient areas prone to increased erosion immediately to prevent greater deficiencies.
- Perimeter Erosion Barrier (PEB): Repair tears, gaps or undermining. Restore leaning PEB and ensure taut.
 Repair or replace any missing or broken stakes immediately. Clean PEB if sediment reaches one-third height of barrier. Remove PEB once final stabilization is established. Repair PEB if undermining occurs anywhere along its entire length.
- Temporary Ditch Checks: Remove sediment from the upstream side of the ditch check when sediment has reached 50% of height of ditch check. Replace the aggregate and fabric when sediment has filled all voids in the stone, so that sediment is filtered and discharged. Repair or replace fabric whenever tears, splits or unraveling are apparent. Repeated failures necessitate a design review. Restore outside slopes to 2:1 (H:V). Stone placed for restoration is the same size as originally specified to allow proper interlock. Restore the center of the ditch check periodically to ensure it is lower than the sides. Re-trench the fabric if undercutting occurs. Reduce center flow line or lengthen ditch check if water flows around the device.
- Erosion Control Blanket: Repair damage due to water running beneath the blanket and restore blanket when displacement occurs. Reseeding may be necessary. Replace all displaced blanket and re-staple.
- Seeding: Reapply seed if stabilization hasn't been achieved. Apply erosion control blanket (or alternative approved by Engineer) to hold seed in place if seed has been washed away or found to be concentrated in ditch bottoms. Restore rills as quickly as possible on slopes steeper than 4:1 (H:V) to prevent sheet-flow from becoming concentrated flow patterns. Mow, if necessary, to promote seed soil contact when excessive weed development occurs. Supplement seed if weather conditions (extreme heat or cold) are not conducive to germination.
- Protection of Existing Vegetation: The Contractor shall only remove trees approved by the representative of the Forest Preserves of Cook County. Tree root preservation and tree root pruning shall be in accordance with the Site Improvement Plans, IDOT Standard Specifications, and the Special Provisions. Restore areas disturbed, disrupted or damaged by the Contractor to pre-construction conditions or better at no additional expense to the contract. Tree damage shall be coordinated with the Engineer and handled in accordance with Forest Preserves of Cook County requirements (e.g., Forest Preserves of Cook County Tree Protection & Preservation Manual and Tree Mitigation Plan).
- Temporary Stabilized Construction Entrances: Replenish stone or replace exit if vehicles continue to track sediment onto the roadway from the construction site. Any sediment reaching a public or private roadway shall be removed before the end of the work day or sooner if directed by the Engineer. Track out shall be removed by sweeping or shoveling these surfaces (or by using other similarly effective means of sediment removal approved by the Engineer). Hosing or sweeping tracked out sediment into any storm water conveyance, storm drain inlet, or waters of the U.S. is prohibited. Ensure culverts (if provided) are free from damage and repair or replace as needed.
- Stockpile Management: Repair and/or replace perimeter controls and stabilization measures when stockpile
 material has potential to be discharged or leave the limits of the protection. Remove all off-tracked material by
 sweeping or other methods. Update the SWPPP any time a stockpile location has been removed, relocated,
 added or required maintenance. During summer months, stockpiles should be watered to maintain the cover
 crop.
- Dewatering: Ensure proper operation and compliance with permits or water quality standards. Remove
 accumulated sediment from the flow area. Dispose of sediment in accordance with all applicable laws and
 regulations. Remove and replace dewatering bags (if used) when half full of sediment or when discharge rate is
 impractical. Immediately stop discharge if receiving areas show signs of cloudy water, erosion, or sediment
 accumulation.

- Temporary Concrete Washout: Do not discharge wastewater into the environment (Note: Acidity, not
 particulates, is environmentally detrimental). Facilitate evaporation of low volume washout water. Clean and
 remove any discharges within 24 hours of discovery. If effluent cannot be removed prior to anticipated rainfall
 event, place and secure a non-collapsing, non-water collecting cover over the washout facility to prevent
 accumulation and precipitation overflow. Replace damaged liner immediately. Remove washout when no longer
 needed and restore disturbed areas to original condition. Properly dispose of solidified concrete waste.
- Material Delivery and Storage: Document the various types of materials delivered and their storage locations in the SWPPP. Update the SWPPP any time significant changes occur to material storage or handling locations and when they have been removed. Clean-up spills immediately. Remove empty containers.
- Solid Waste Management: Designate a waste collection area(s) and identify them in the SWPPP. Inspect inlets, outfalls, and drainageways for litter, debris, containers, etc. Observe the construction site for improper waste disposal. Update the SWPPP any time the trash management plan significantly changes. Correct items discarded outside of designated areas.
- Vehicle and Equipment Fueling, Cleaning, and Maintenance: Clean-up spills immediately. Contractor must provide documentation that spills were cleaned, materials disposed of, and impacts mitigated. Update the SWPPP when designated location has been removed, relocated, added or requires maintenance. In the event of a spill into a storm drain, waterway or onto a paved surface, the owner of the fuel must immediately take action to contain the spill. Once contained, clean-up the spill. As an initial step, this may involve collecting any bulk material and placing it in a secure container for later disposal. Follow-up cleaning will also be required to remove residues from paved or other hard surfaces.
- Portable Restroom Facilities: Maintain in accordance with applicable laws to prevent unsanitary conditions. Check for leaks and remove and replace as needed.

Additional information can be found in the IDOT Erosion and Sediment Control Field Guide and the Illinois Urban Manual.

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.



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Division of Water Pollution Control Notice of Intent (NOI) for General Permit to Discharge Storm Water Associated with Construction Site Activities

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Permit Section at the above address. For Office Use Only

OWNER INFORMATION	Permit No. ILR10
Company/Owner Name: Forest Preserves of Cook County	
Mailing Address: 536 N. Harlem Avenue	Phone: (708) 771-1355
City: River Forest State: IL Zip: 60305	Fax:
Contact Person: Pamela Sielski E-mail: Pam	ela.sielski@cookcountyil.gov
Owner Type (select one) Special District	
CONTRACTOR INFORMATION MS	64 Community: Yes Vo No
Contractor Name:	
	Phone:
	Fax:
CONSTRUCTION SITE INFORMATION	
Select One: New Change of information for: ILR10	
Project Name: Des Plaines River Trail (DPRT), Segment 1 Reconstruction	County: Cook
Street Address: DPRT (Devon Av to Touhy Ave) City: Park Ridge	IL Zip: <u>60068</u>
Latitude: <u>42</u> <u>0</u> <u>13 N</u> Longitude: <u>87</u> <u>51</u> <u>37 W</u>	34 41N 12E
(Deg) (Min) (Sec) (Deg) (Min) (Sec)	Section Township Range
Approximate Construction Start Date Apr 1, 2023 Approximate Construc	tion End DateApr 2, 2024
Total size of construction site in acres: 3.3	Fee Schedule for Construction Sites:
If less than 1 acre, is the site part of a larger common plan of development?	Less than 5 acres - \$250
	5 or more acres - \$750
STORM WATER POLLUTION PREVENTION PLAN (SWPPP)	
Has the SWPPP been submitted to the Agency?	es O No
(Submit SWPPP electronically to: epa.constilr10swppp@illinois.gov)	
Location of SWPPP for viewing: Address:	City:
SWPPP contact information:	Inspector qualifications:
Contact Name:	
Phone: Fax: E-mail:	
Project inspector, if different from above	Inspector qualifications:
Inspector's Name:	
Dhono: Fov: F mail:	

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

TYPE OF CONSTRUCTION (selection Construction Type Reconstruction	ct one)						
SIC Code: 9512							
Type a detailed description of the proje	ect:						
Improvements to existing multi-use trai	I. Existing tr	ail alignment used	to extent practical. New sidepath construction at				
•	_	-	nstallation/maintenance of ESC practices; existing				
			ation/unsuitable material; drainage structure				
•	construction; placement of aggregate or granular material (subgrade, base course & surface course); PCC installation;						
retaining wall construction; furnish & place topsoil; final stabilization; removal of ESC measures; and all incidental &							
collateral work necessary to complete project as shown on plans and described in special provisions.							
Illinois law on:	ollowing stat	te agencies to sati	COMPLIANCE sfy applicable requirements for compliance with				
Historic Preservation Agency	✓ Yes	○ No					
Endangered Species	✓ Yes	○ No					
RECEIVING WATER INFORMATION	N						
Does your storm water discharge direct	tly to: 🕡 \	Waters of the State	e or 📝 Storm Sewer				
Owner of storm sewer system: Illinois	Departmen	t of Transportation	ı; City of Park Ridge				
Name of closest receiving water body t	o which you	discharge: Des	Plaines River				
Mail completed form to: Illinois Environi Division of Wa Attn: Permit S Post Office Bo Springfield, Illir or call (217) 78 FAX: (217) 782	ter Pollution ection x 19276 nois 62794-9 32-0610	Control					
Or submit electronically to: epa.constilr	10swppp@i	llinois.gov					
I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. In addition, I certify that the provisions of the permit, including the development and implementation of a storm water pollution prevention plan and a monitoring program plan, will be complied with. Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))							
Owner Signature:			Date:				
Pamela Sielski			Landscape Architect/Project Manager				
Printed Name:			Title:				

INSTRUCTIONS FOR COMPLETION OF CONSTRUCTION ACTIVITY NOTICE OF INTENT (NOI) FORM

Submit original, electronic or facsimile copies. Facsimile and/or electronic copies should be followed-up with submission of an original signature copy as soon as possible. Please write "copy" under the "For Office Use Only" box in the upper right hand corner of the first page.

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Permit Section at:

Illinois Environmental Protection Agency Division of Water Pollution Control Permit Section Post Office Box 19276 Springfield, Illinois 62794-9276 or call (217) 782-0610

FAX: (217) 782-9891

Or submit electronically to: epa.constilr10swppp@illinois.gov

Reports must be typed or printed legibly and signed.

Any facility that is not presently covered by the General NPDES Permit for Storm Water Discharges From Construction Site Activities is considered a new facility.

If this is a change in your facility information, renewal, etc., please fill in your permit number on the appropriate line, changes of information or permit renewal notifications do not require a fee.

NOTE: FACILITY LOCATION IS NOT NECESSARILY THE FACILITY MAILING ADDRESS, BUT SHOULD DESCRIBE WHERE THE FACILITY IS LOCATED.

Use the formats given in the following examples for correct form completion.

	Example	Format	
Section	12	1 or 2 numerical digits	
Township	12N	1 or 2 numerical digits followed by "N" or "S"	
Range	12W	1 or 2 numerical digits followed by "E" or "W"	

For the Name of Closest Receiving Waters, do not use terms such as ditch or channel. For unnamed tributaries, use terms which include at least a named main tributary such as "Unnamed Tributary to Sugar Creek to Sangamon River."

Submission of initial fee and an electronic submission of Storm Water Pollution Prevention Plan (SWPPP) for Initial Permit prior to the Notice of Intent being considered complete for coverage by the ILR10 General Permits. Please make checks payable to: Illinois EPA at the above address.

Construction sites with less than 5 acres of land disturbance - fee is \$250.

Construction sites with 5 or more acres of land disturbance - fee is \$750.

SWPPP should be submitted electronically to: epa.constilr10swppp@illinois.gov. When submitting electronically, use Project Name and City as indicated on NOI form.



DEPARTMENT OF THE ARMY CORPS OF ENGINEERS, CHICAGO DISTRICT

CORPS OF ENGINEERS, CHICAGO DISTRICT 231 SOUTH LA SALLE STREET, SUITE 1500 CHICAGO IL 60604-1437

June 16, 2022

Regulatory Branch (LRC-2020-1156)

SUBJECT: No Permit Required for Segment 1 of the Des Plaines River Trail in Park Ridge, Cook County, Illinois (Latitude 42.009765, Longitude -87.861286)

Pamela Sielski Forest Preserve District of Cook County 536 North Harlem Avenue River Forest, Illinois 60305

Dear Ms. Sielski:

This is in response to your request that the U.S. Army Corps of Engineers issue a no permit required letter for the above-referenced activity. The subject project has been assigned number LRC-2020-1156. Please reference this number in all future correspondence concerning this project.

Following a review of the information you furnished to this office and assuming your project is conducted only as set forth in the plans titled, "State of Illinois, Department of Transportation, Division of Highways, Proposed Highway Plans, Des Plaines River Trail Segment 1, Section 17-00034-01-BT, Project ______, Shared-Use Path Reconstruction, Cook County", dated May 5, 2022, prepared by Christopher B. Burke Engineering, Ltd., this office has determined that your proposed activity is exempt from regulation under Section 404(f)(1) of the Clean Water Act as implemented by our regulations at 33 CFR 323.4. Therefore, your proposed activities, even if they involve a discharge of dredged or fill material into waters of the United States, do not require permit authorization from this office under Section 404 of the Clean Water Act. This letter does not address nor include any consideration for geographic jurisdiction on aquatic resources and shall not be interpreted as such.

Following a review of the information you furnished to this office and assuming your project is conducted only as set forth in the report titled, "State of Illinois, Department of Transportation, Division of Highways, Proposed Highway Plans, Des Plaines River Trail Segment 1, Section 17-00034-01-BT, Project ______, Shared-Use Path Reconstruction, Cook County", dated May 5, 2022, prepared by Christopher B. Burke Engineering, Ltd., this office has determined that your proposed activity will not result in a discharge of dredged or fill material into waters of the United States, or any work in, over, or under a navigable water of the United States. Therefore, your proposed activity does not require a Department of the Army (DA) permit to complete the proposed work. Please be aware that any unpermitted discharge into an area within the jurisdiction of this office may result in civil or criminal enforcement under the Clean Water Act, 33 U.S.C. 1319 and/or the Rivers and Harbors Act of 1899, 33 U.S.C. 406.

It is your responsibility to obtain any required state, county, or local approvals for impacts to wetland areas not under the Department of the Army jurisdiction. For projects located in unincorporated and unauthorized municipalities in Cook County, please contact the Metropolitan Water Reclamation District of Greater Chicago at (312) 751-3247. For projects in incorporated areas of Cook County, contact the authorized municipality for information related to the Watershed Management Ordinance.

If you have any questions, please contact me by telephone at (312) 846-5541 or email at kimberly.j.kubiak@usace.army.mil.

Sincerely,

15:07:00 -05'00'

Kimberly J. Kubiak Project Manager Regulatory Branch

CC:

Christopher B. Burke Engineering, Ltd. (Thomas McArdle)

WATERSHED MANAGEMENT PERMIT

Watershed Management Permit No.

22-199

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

111 EAST ERIE, CHICAGO, ILLINOIS, 60611

www.mwrd.org

INSTRUCTIONS FOR COMPLETING PERMIT FORM: Submit two original signed copies of this permit application (nine pages) and any required WMO schedules listed below; do not leave any blank spaces; use "X" for checking applicable information. Also submit two copies of location map and plans. Address all correspondence to the Local Sewer Systems Section; for any inquiries or assistance, telephone (312) 751-3255.

-	Touhy Avenue and Talcott Avenue intersection; Southern Project End: approximately 296 feet south of southwest corner of the Devon Avenue and Dee Road intersection.							
	Municipality (Township, if unincorporated) City of Park Ridge Section 3, 27, 34 , Township 40, 41, 41 N, Range 12, 12, 12 E							
	PIN (include all PINs for project, use additional sheets if more than two):	O 11 A11 1 1	Sheet					
	* * ·	Separate Sewer Area						
■	Project Information (Required in all cases)	WMO Schedule A	(Page 5 of 9)					
	Sewer Summary (Required in all cases)	WMO Schedule B	(Page 6 of 9)					
	Sewer Connections (Required in all cases)	WMO Schedule C	(Page 7 of 9)					
	Detention & Stormwater Management Facilities (WMO)	WMO Schedule D	(3 Pages)					
	Detention & Stormwater Management Facilities (Legacy)	WMO Schedule D _{Legacy}	(4 Pages)					
	Lift Station and/or Force Main	WMO Schedule E	(2 Pages)					
	Characteristics of Waste Discharge	WMO Schedule F	(2 Pages)					
	Treatment or Pretreatment Facilities	WMO Schedule G	(2 Pages)					
	Hazard Areas (Floodplain / Floodway /Riparian Areas)	WMO Schedule H	(2 Pages)					
	Affidavit Relative to Compliance with Article 7	WMO Schedule J	(1 Page)					
	Affidavit of Disclosure of Property Interest	WMO Schedule K	(2 Pages)					
	Notice of Requirements for Storm Water Detention	WMO Schedule L	(2 Pages)					
	Current Survey of Property Interests (Attachment for Schedule K or L)	Exhibit A						
	Outfall, Direct Connection, District Owned or Leased Property	WMO Schedule O	(1 Page)					
	Soil Erosion and Sediment Control	WMO Schedule P	(2 Pages)					
	Recording and Maintenance	WMO Schedule R	(2 Pages)					
	Recording Exhibit (Attachment for Schedule K or L)	Exhibit R						
	Wetlands and Wetland Buffer Areas	WMO Schedule W	(2 Pages)					
Ref	er to Table 1 of § 201 of Article 2 of Watershed Management Ordinance for applicable Permi	tting Authority.						
OTHER DOCUMENTS: Indicate title, number of pages and originator BY CBBEL: Plan Set (91 Sheets)								
BY CBBEL: Stormwater Management Report including Exhibits and Appendices.								
NOTE: ATTACH FEE PAYMENT VOUCHER AND PAYMENT IF APPLICABLE								
DISTRICT USE ONLY								
Application received:WMO Permit issued:WRP:Stickney								
I	ssued by: DISTRICT Authorized	Municipality						

MWRD Permit Application: 22-199

List of PINs

09-27-300-004-0000

09-27-300-008-0000

09-34-100-001-0000

09-34-100-003-0000

09-34-102-005-0000

09-34-102-009-0000

09-34-102-010-0000

09-34-301-008-0000

09-34-301-001-0000

09-34-301-010-0000

09-34-301-020-0000

09-34-301-011-0000

09-34-301-021-0000

09-34-301-022-0000

12-03-101-005-0000

12-03-101-006-0000

Please refer to Exhibit 11 in Project Report.

GENERAL CONDITIONS OF THE PERMIT

- Definitions. The definitions of Appendix A of the Watershed Management Ordinance are incorporated into this Watershed Management Permit by reference. Additionally, the following words and phrases shall be defined as follows:
 - a) Building and Occupancy Permit. Building and Occupancy Permit issued by the Municipality.
 - b) Design Engineer. A Professional Engineer who prepares plans and specifications for the project, and signs the Watershed Management Permit Application.
 - c) Inspection Engineer. A Professional Engineer who inspects the development to ensure compliance with the design plans, specifications, a Watershed Management Permit, and the Watershed Management Ordinance.
 - d) Permit. Watershed Management Permit.
 - e) General Conditions. General Conditions contained in a Watershed Management Permit.
 - f) Special Conditions. Special conditions of this Watershed Management Permit.
- 2. Adequacy of Design. The schedules, plans, specifications and all other data and documents submitted for this Permit are made a part hereof. The Permit shall not relieve the Design Engineer of the sole responsibility for the adequacy of the design. The issuance of this Permit shall not be construed as approval of the concept or construction details of the proposed facilities and shall not absolve the Permittee, Co-Permittee or Design Engineer of their respective responsibilities.
- 3. **Joint Construction and Operation Permits.** Unless otherwise stated by the Special Conditions, the issuance of this Permit shall be a joint construction and operation permit, provided that the Permittee or Co-Permittee has complied with all General and Special Conditions.
- 4. Allowable Discharges. Discharges into the Sanitary Sewer system constructed under this Permit shall consist of sanitary Sewage only. Unless otherwise stated by the Special Conditions, there shall be no discharge of industrial wastes under this Permit. Stormwater shall not be permitted to enter the Sanitary Sewer system. Without limiting the general prohibition of the previous sentence, roof and footing drains shall not be connected to the Sanitary Sewer system.
- 5. Construction Inspection. All erosion and sediment control facilities, Stormwater Facilities, Detention Facilities, and Qualified Sewer Construction shall be inspected and approved by an Inspection Engineer acting on behalf of the Permittee or the Owner of the project, or by a duly authorized and competent representative of the Inspection Engineer. No sewer trenches shall be backfilled except as authorized by the Inspection

Engineer after having inspected and approved the sewer installation.

- 6. Maintenance. Stormwater Facilities, Detention Facilities, Qualified Sewer Construction, Sanitary Sewer lines, systems or facilities constructed hereunder or serving the facilities constructed hereunder shall be properly maintained and operated at all times in accordance with all applicable requirements. It is understood that the responsibility for maintenance shall run as a joint and several obligation against the Permittee, the Co-Permittee, the property served, the Owner and the operator of the facilities, and said responsibility shall not be discharged nor in any way affected by change of ownership of said property, unless the District has authorized assignment of the permit.
- Indemnification. The Permittee shall be solely responsible for and shall defend, indemnify and hold harmless the Metropolitan Water Reclamation District of Chicago ("District", "MWRD", or "MWRDGC") and its Commissioners, officers, employees, servants, and agents from liabilities of every kind, including losses, damages and reasonable costs, payments and expenses (such as, but not limited to, court costs and reasonable attorneys' fees and disbursements), claims, demands, actions, suits, proceedings, judgments or settlements, any or all of which are asserted by any individual, private entity, or public entity against the District and its Commissioners, officers, employees, servants, or agents and arise out of or are in any way related to the issuance of this Permit. Without limiting the generality of the preceding sentence, the provisions of this paragraph shall extend to indemnify and hold harmless the District and its Commissioners, officers, employees, servants, and agents from any claims or damages arising out of or in connection with the termination or revocation of this Permit.

The Permittee shall be solely responsible for and shall defend, indemnify and hold harmless an Authorized Municipality and its elected officials, officers, employees, servants, and agents from liabilities of every kind, including losses, damages and reasonable costs, payments and expenses (such as, but not limited to, court costs and reasonable attorneys' fees and disbursements), claims, demands, actions, suits, proceedings, judgments or settlements, any or all of which are asserted by any individual, private entity, or public entity against the Authorized Municipality and its elected officials, officers, employees, servants, or agents and arise out of or are in any way related to the issuance of this Permit. limiting the generality of the preceding sentence, the provisions of this paragraph shall extend to indemnify and hold harmless the Authorized Municipality and its elected officials, officers, employees, servants, and agents from any claims or damages arising out of or in connection with the termination or revocation of this Permit.

8. Sewer Construction by District. Permittee understands and acknowledges that the District has the right and power to construct and extend sewer service facilities and render such services within the area to be served by the project for which this Permit is issued, and that by the District constructing and extending such sewer service facilities and rendering such services, the facilities constructed by the Permittee under this Permit may decrease in value, become useless or of no value whatsoever, the Permittee may also sustain a loss of business, income and profits.

Therefore, by accepting this Permit and acting thereon, the Permittee, for itself, its successors and assigns, does remise, release and forever discharge the District and its Commissioners, officers, employees, servants, and agents of any and all claims whatsoever which Permittee may now have or hereafter acquire and which Permittee's successors and assigns hereafter can, shall, or may have against the District and its Commissioners, officers, employees, servants, and agents for all losses and damages, either direct or indirect, claimed to have been incurred by reason of the construction or extension at any time hereafter by the District of sewer service facilities in the service area contemplated by this Permit, the rendering of such services, which District facilities and services decrease the value of the facilities constructed by the Permittee under this Permit, make same useless or of no value whatsoever, including but not limited to, any and all damages arising under 70 ILCS 2605/19; the taking of private property for public use without due compensation; the interference with the contracts of Permittee; the interference with Permittee's use and enjoyment of its land; and the decrease in value of Permittee's land.

- 9. Third Parties. Regarding Qualified Sewer Construction, this Permit does not grant the right or authority to the Permittee: (a) to construct or encroach upon any lands of the District or of any other parties, (b) to construct outside of the territorial boundaries of the District except as allowed under an extraterritorial service agreement, (c) to construct or encroach upon the territorial boundaries of any units of local government within the District, (d) to connect to or discharge into or be served by (directly or indirectly) any sewer or sewer system owned or operated by third parties.
- 10. **Costs.** It is expressly stipulated and clearly understood that the Stormwater Facilities, Detention Facilities, Qualified Sewer Construction, or facilities for which the Permit is issued shall be constructed, operated and maintained at no cost to the District.
- 11. Other Sewer Construction. The District reserves the right, privilege and authority to permit others to reconstruct, change, alter and replace all sewers and appurtenances thereto at the point of connection of any sewerage system to a District interceptor and/or in public

right-of-ways of District easements, and to introduce additional Sewage flow through this connection into the intercepting sewer of said District.

- 12. Change of Use. This Permit shall be incorporated in the Building and Occupancy Permit for the Building or Buildings served under this Permit. The Owner or occupant of any Building served under this Permit shall not cause, or permit, a change of use of the Building to a use other than that indicated in this Permit without first having obtained a written permission from the Executive Director of the District.
- 13. Interceptors Overloading. The District hereby serves notice that its interceptors may flow full and may surcharge, and flooding of the proposed system may occur. The Permittee agrees that the proposed systems shall be constructed, operated and maintained at the sole risk of the Permittee.
- 14. Transferability. This Permit may not be assigned or transferred without the written consent of the Executive Director of the District or Enforcement Officer of an Authorized Municipality. However, a Sole Permittee may be required to assign or transfer the Permit when divesting itself of ownership to a third-party and should notify the District prior to such divestment so that the District may determine whether assignment to the new owner is necessary.
- 15. Termination. The District has the right to enforce or revoke a Permit issued by either the District or an Authorized Municipality as outlined in Article 12 of the Watershed Management Ordinance.
 - It is understood and agreed that in the event the Permittee shall default on or fail to perform and carryout any of the covenants, conditions or provisions of this Permit and such default or violation shall continue for sixty (60) days after receipt of notice thereof in writing given by the Executive Director of the District, then it shall be lawful for the District at or after the expiration of said sixty (60) days to declare said Permit terminated. The Permittee agrees that immediately upon receipt of written notice of such termination it will stop all operations, discontinue any discharges and disconnect the sewerage system or facilities constructed under this Permit. If the Permittee fails to do so, the District shall have the right to disconnect said system. The Permittee hereby agrees to pay for any costs incurred by the District for said disconnection.
- 16. **Rights and Remedies.** The various rights and remedies of the District contained in this Permit shall be construed as cumulative, and no one of them shall be construed as exclusive of any one or more of the others or exclusive of any other rights or remedies allowed by applicable rules, regulations, ordinances and laws. An election by the District to enforce any one or more of its rights or

remedies shall not be construed as a waiver of the rights of the District to pursue any other rights or remedies provided under the terms and provisions of this Permit or under any applicable rules, regulations, ordinances or laws.

- 17. Expiration. This Permit shall expire if construction has not started within one (1) year from the date of issue. Construction under an expired Permit is deemed construction without a Permit. All construction under this Permit shall be completed within two (2) years after start of construction. If conditions so warrant, an extension may be granted. For publicly financed projects (e.g. special assessments) the one (1) year period indicated will be considered from the date of final court action.
- 18. Revocation. In issuing this Permit, the District or Authorized Municipality has relied upon the statements and representations made by the Permittee or his agent. Any incorrect statements or representations shall be cause for revocation of this Permit, and all the rights of the Permittee hereunder shall immediately become null and void.
- 19. Advance Notice. The Permittee shall give the District or Authorized Municipality advance notice of at least two working days prior to the following: mobilization and installation of Erosion and Sediment Control Practices; commencement of construction; excavation for Qualified Sewer Construction; Major Stormwater Systems and Detention Facilities under this Permit; and completion of construction. When advance notice is given, the Permittee shall provide the Permit number, municipality and location.
- 20. Compliance with Plans and Specifications. All construction shall be in accordance with the plans and specifications submitted for this Permit and made a part hereof. No changes in, or deviation from the plans and specifications which affect capacity, maintenance, design requirements, service area or Permit requirements shall be permitted unless revised plans have been submitted to, and approved by the District or Authorized Municipality. The Permit together with a set of the plans and specifications (revised plans and specifications, if any) shall be kept on the jobsite at all times during construction and until final inspection and approval by the District or Authorized Municipality.
- 21. **Testing and Approval.** All construction under this Permit shall be subject to inspection, testing and approval by the District. All testing shall be made, or caused to be made, by the Permittee at no cost to the District and in the presence of the District representative. Upon satisfactory completion of construction, the Permittee and the owner shall submit, or cause to be submitted, a completion certificate and request for approval on the form prescribed by the District. No sewer

- or other facilities shall be put in service until all the conditions of the Permit have been satisfactorily met.
- 22. Record Drawings. Before final inspection and approval by the District or an Authorized Municipality, the Permittee shall furnish, or cause to be furnished to the District or an Authorized Municipality, a set of Record drawings and Schedule R for the site stormwater plan, Detention Facilities, Stormwater Facilities, and Qualified Sewer Construction, or a statement that the project was constructed in accordance with the original plans and specifications.
- 23. Compliance with Rules and Regulations. The Permittee hereby expressly assumes all responsibilities for meeting the requirements of all applicable rules, regulations, ordinances and laws of Local, State and Federal authorities. Issuance of this Permit shall not constitute a waiver of any applicable requirements.
- 24. Severability. The provisions of this Permit are severable, and if any provision of this Permit, or the application of any provision of this Permit, is held invalid, the remaining provisions of this Permit shall continue in full force and effect
- Property Rights. This Permit does not convey any property rights of any sort, or any exclusive privilege.
- 26. Conflict with Other Conditions. In the case of conflict between these General Conditions and any other condition(s) in this permit, the more stringent condition(s) shall govern.

WMO SCHEDULE A PROJECT INFORMATION

Watershed Management Permit No.

22-199

1.	NAME OF PROJECT Reconstruction of Des Plaines River Trail - Segment 1
2.	(as shown on the plans) APPURTENANCES (check all applicable items)
	Siphon ☐ Drop Manholes ☐ Public Lift Station ☐ Outfalls (Submit Sch. E) (Submit Sch. O) Stream Crossing ☐ Direct Connections to District → Describe N/A
3.	RECEIVING SANITARY/COMBINED SEWER SYSTEM
	A. System that project will connect to is: ☐ Existing ☐ Proposed /Under Construction → District Permit # N/A
	List owners of all sewers from project to District interceptor N/A
4.	RECEIVING STORM SEWER SYSTEM TRIBUTARY TO WATERWAY
	A. System that project will connect to is: ☐ Existing ☐ Proposed /Under Construction → District Permit # N/A List owners of all sewers from project to waterway N/A
5.	EXISTING LIFT STATION ✓ No ☐ Yes → Receiving system includes existing lift station
	If yes, indicate location
6.	FLOOD PROTECTION AREAS Does any part of the project area involve the following? (check all applicable items)
	Floodplain/Floodway/Riparian (Schedule H) Wetlands/Buffers/Riparian (Schedule W)
7.	SIZE OF PROJECT
	Total contiguous ownership interest Development Area (Open Space Development) Impervious area within project
8.	STORMWATER MANAGEMENT
	A. Is project in the service area of a District permitted detention facility? ✓ No ✓ Yes → District Permit No.
	B. Is stormwater management provided under this permit? ✓ No
	C. Type of stormwater management
	✓ Runoff Control Uvolume Control Detention Storage

WMO SCHEDULE B SEWER SUMMARY

Watershed Management Permit No.

22-199

PROJECT NAME.	TRECONSTITUTE		as shown on the plar	Trail - Segme	### H		
. SEWER SUMMA	RY: Include:	•	•		ary sewers in	combined and	separate
sewer areas and Storn	n sewers in com	nbined sewer a	rea) and their t	ributary type:			
Sanitary (San), Comb						I	
Tributary Type	Choose one	Choose an	Choose an Choose one	Choose an Choose one	Choose one	Choose an Choose one	Choose one
Pipe Size (in.)							
Total Length (ft.)							
Min. slope used (%)			-				
Pipe Material *							
Total Manholes							
Total Cleanouts							
Catch Basin/Inlets							
Sewer construction in t Sanitary Manholes in f	loodplain			→ FPE		, , , , , , , , , , , , , , , , , , ,	Al-California (Al-California (Al-California (Al-California (Al-California (Al-California (Al-California (Al-Cal
Note: All structures shal	l have lids locate	ed above the Fl	PE or be constru	cted with waterti	ight, bolt down	covers/lids.	
. NATURE OF PRO	OJECT (Che	ck all that ap	oply)	11.6 N. 11	. 		(D
Brief description Rec	construction (of Des Plain	ies River Tra	iii from North	of Touny A	ve to South 6	of Devon Ave
Publicly fina	nced		□ S	ewer extension	n to serve fu	ture developi	ment
Sewer system	n serving a su	ıbdivision	□ S	torm sewers ir	n combined	sewer area	
Off-site trun	k sewer to sei	ve subdivisi	on S	ervice connect	tions to serv	e buildings (S	Sch. C)
Other							
Identify proposed pr	oject designe			tions (not incl			
appropriate box and							
NO	YES -		☐ Service ar	ea map			

WMO SCHEDULE C

Watershed Management Permit No.

22-199

SEWER CONNECT (FILL OUT ALL SECTIONS			
1. BUILDING CONNECTION	ON DATA		
A. RESIDENTIAL BUIL	DINGS		
☐ Single Family☐ Multi Family	Number of sewer connec Total dwelling units *		PE**
B. COMMERCIAL& REC	Number of sewer connec REATIONAL BUILDINGS wer connections		PE**PE**
* Each sanitary li	wer connections ne exiting a building is a conivalent (Submit calculations for eact all that apply) CREATIONAL	ach connection and t	PE**otal from all connections)
Food preparation or processin			omat (install lint basin)
Swimming pool (provide pool Manufacturing (describe)	i pians)		rvice (install triple basin) ash (install mud basin)
B. INDUSTRIAL BUILD Describe use of buildings, i	ncluding principal product(s		
Sewer connect	ions will receive domestic s e is produced	ewage only	

NOTE: If industrial waste is produced, submit WMO Schedule F & WMO Schedule G and plumbing plans along with flow diagram for pretreatment system.

S'.	ľO	RMWATER MANAGEMENT FACILITIES		
NA	MI	OF PROJECT: Reconstruction of Des Plaines River Trail - Segment 1	·	
_		(Submit a separate Schedule D for each stormwater facility, as need	,	
1.		JNOFF REQUIREMENTS: Submit calculations and an exhibit that delineates the 100-year the major stormwater system including cross-sections indicating the HGL at critical points (e.g		
	A.	Method used to calculate the 100-year peak design runoff rate: Hydrologic model Rational Method $\rightarrow i_{100-year}$ in/hr		
	В.	Onsite tributary area to the major stormwater system C or CN 74 ,	11.0	acres
	C.	Offsite tributary area to the major stormwater systemC or CN90,	2.6	acres
	D.	Total tributary area to the major stormwater system	13.6	acres
	E.	Ratio of offsite to onsite tributary area	0.24	
	F.	Time-of-concentration 85.8, 32.4, 64.8, 36.6		minutes
	G.	100-year peak design runoff rate		cfs
	Н.	Capacity of major stormwater system discharging offsite	33	cfs
	I.	Offsite discharge location of the major stormwater system: ROW/drainage easement	vith \$502.3.1	3)
	J.	Type and location of major stormwater system: Proposed Culvert Crossing (see Exhibit		,
2.	VC inc	Building lowest entry elevation(s) are located at least 1 foot above the adjacent HGL (Submit calculations and cross-sections showing the lowest entry elevation(s) and adjacent HGL Yes No (for existing buildings located within the property holdings, submit of the location and a detail for the location across-section indicating relevant elevations and the seasonal high groundwater table (State of Control requirements are not applicable). Does the site have any restrictive covenants related to environmental conditions (e.g.	IGL) acknowledgm volume cont SHGWT).	rol facility
		\square No \square Yes \rightarrow Explain:		
	В.	Site constraint(s) that precludes the use of onsite retention-based practices (submit does None SHGWT Contaminated Soil Other: N/A	cumentation)	:
	C.	Proposed impervious area of development		acres
	D.	Gross volume control storage (2.C/12)		ac-ft
	E.	The onsite gross volume control storage may be reduced when a site constraint is pre	sent:	
		1. Existing impervious area within development acres		
		2. VC storage reduction (5)(2.D)[1 - (2.C / 2.E.1)] ac-ft		
	F.	Required volume control storage (2.D – 2.E.2)		ac-ft
	G.	Provided volume within retention-based practice		ac-ft
	Н.	Volume control facility (*only when a site constraint is present) ☐ Retention-based practice → Type of practice: ☐ Flow-through practice* → Type of practice: ☐ Detention Storage* → Type of facility: ☐ Offsite retention-based practice* → WMO Permit Number:		
	I.	Designed as an offsite retention-based practice:		

☐ No

ac-ft

☐ Yes → Impervious runoff volume tributary to facility ______

STORMWATER MANAGEMENT FACILITIES

f	acility and a detail of the control structure, and delineates the tributary, unrestricted, depressional storage, reas with the acreage and curve number indicated. Detention requirements are not applicable	
A	A. Watershed specific release rate (Appendix B)	cfs/ac
	3. Detention service area	acres
C		cfs
Γ		acres
E		cfs
F		cfs
	G. Net allowable release rate (3.C – 3.E – 3.F)	cfs
H		
	1. Diameter in 2. Actual Release Rate	cfs
	3. <i>C</i> _d 4. HWL	ft
	5. Type 6. Invert elevation	ft
Ι.		
J	. Time-of-concentration	minutes
K	K. Area detained (include trade areas),	acres
L	. Adjusted CN (when onsite retention-based practices are provided)	
N	A. Required detention volume at actual release rate (3.H.2)	ac-ft
N	N. Provided detention volume at HWL (3.H.4)	ac-ft
C	D. Drawdown time	hours
P	P. Type of stormwater detention facility:	
Ç	 Designed as an offsite detention facility: No ☐ Yes → Runoff volume tributary to facility 	ac-ft
. (DFFSITE DETENTION REQUIREMENTS: This item is only applicable when the development utilize etention facility to comply with the detention requirements. Offsite detention requirements are not applicable	s an offsite
A	A. Site limitation(s) that precludes the use of an onsite detention facility (submit justification): Floodway	
В	3. Area requiring detention,,,,	acres
C	C. Runoff volume from area to be detained offsite	ac-ft
Γ	WMO Permit Number for offsite detention facility	
A	The Property of the Christopher B. Burke Engineering, Ltd	
1/5	7082-058302 Name: Darren T. Olson, PE, CFM, D.WRE Phone: (847) 823-0500	
	Title: Vice President, Water Resources Email: dolson@cbbel.com	
No.	PROFESSIONAL Date: 5/1	1/22

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FLOODPLAIN/FLOODWAY & RIPARIAN ENVIRONMENTS

NA	ME	OF PI	ROJECT: Reco	nstruction of Des Plaine	s River Trail	- Segmen	nt 1
1.	TY	☐ Si	T DEVELOPME ngle-Family Hon on-Residential	NT (check one below): ne	bdivision		lti-Family Residential en Space
2.			RM PANELS				
				IRM panel(s) for the site: August 19, 2008)	17031C0238	BJ (effecti	ve August 19, 2008)
2	101	OODD	T A TNI				
3.		OODP Is ther		dplain located onsite?			
	л.			Provide the name(s) of the	ne flooding so	urce(s): D	es Plaines River
			100	110 (100 (110 110110)	.	···· (-)· <u> </u>	
	В.			olain within 100 feet of the No ☐ Yes	ne project site	or does t	he site require a project-specific
	C.	If the	answer to 3.A or	3.B is "Yes", complete th	e following.		
		List th	e BFE(s) on the p	•	, .	f more thar	n one BFE, list each individually)
				ource(s) of the BFE(s): FIS Profiles (see Appen	dix 2 of the st	tormwater	report)
	D.	Does t		e development of a reside	ntial building	within 100)-ft of the regulatory floodplain?
	E.	If the	development incl		or 2,500 square		an existing building that increases ggregate, provide the lowest floor
	F.	Does t	he project result	in fill in the floodplain? [No 🗆 Y		rovide floodplain fill and ompensatory storage quantities:
			Floodplain Fi	ll (acre-feet)	Compe	nsatory St	orage Provided (acre-feet)
			0.0	0 – 10 Year		0.0	0 - 10 Year*
		_	0.0	10 - 100 Year		0.0	10 – 100 Year*
		_	0.0	Total		0.0	Total**
					* Mood b	a at laggt	1. O times the floodplain fill

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^{*} Must be at least 1.0 times the floodplain fill

^{**} Must be at least 1.1 times the floodplain fill

FLOODPLAIN/FLOODWAY & RIPARIAN ENVIRONMENTS

levelopment
•
levelopment
ng trail
the riparian
5/

S	СН	EDULE P		WMO Permit Number:	22-1	99
		EROSION AND SED				
N.A	MIL	OF PROJECT: Reconstruction	on of Des Plaines River Trail	- Segment I		
1.	PR	OJECT INFORMATION:				
	A.	Project Area (include all distur	bed area)		3.08	acres
	B.	Stormwater discharges direct Storm Sewer	ly to:			
		☐ Combined Sewer				
		Overland Flow Route				
		\blacksquare Waters of the State \rightarrow	Name of water body:	Des Plaines Rivers		
		\Box Other \rightarrow	Explain:			
	C.	Indicate if any of the followin ☐ Volume Control Facility		oply (check all that apply): Outfall to Wate	erway	
		■ Floodplain / Floodway	■ Riparian Environmen	nt 🔲 Tributary to La	ke Michigan	
	D.	Explain how special circumst The project area will be delineated w		•		nentation:
		blanket. In addition, wetlands are bo	ound by an orange construction fe	nce and marked on the plans as n	no-intrusion zone.	
2.	ind	IL EROSION AND SEDIMI icating type, location, and detail f st be constructed in accordance w	or all practices. Include a seq	uence for all major construc		
	A.	Indicate all temporary soil ero				
		■ Entrance / Exit Control	☐ Vegetative Control	☐ Filtration for D	ewatering	
		Concrete Washout	☐ Matting / Mulching	☐ Conveyance Ch	nannel	
		■ Silt Fence	☐ Coir Roll	Velocity Dissip	ation	
		■ Double-Row Silt Fence	☐ Sediment Trap	Cofferdam / Sil	t Curtain	
		☐ Inlet Control	☐ Sediment Basin			

■ Other: Temporary Erosion Control Blanket

Other: Erosion Control Blanket (SPL)

B. Indicate all permanent soil erosion control practices installed as part of the project:

■ Velocity Dissipation

Other:

☐ Vegetative Control

Other: Native seeding

WETLANDS, BUFFERS & RIPARIAN ENVIRONMENTS

 \blacksquare No \rightarrow Proceed to Item 5

NA	ME	OF PROJECT: Reconstruction of Des Plaines River Trail - Segment 1
Cor	nplei	te all items, unless instructed to proceed to a later section.
1.	WE	CTLAND IDENTIFICATION: Des Plaines River Waters of the U.S./Wetland Area
2.	ON	SITE WETLANDS (Wetlands located within the property holdings are considered onsite wetlands. If multiple lands are located within the property holdings, submit a separate Schedule W for each wetland.)
	A.	Is a wetland or farmed wetland located on the property interest?
		No → Proceed to Item 3 ■ Yes → Delineate wetland per §603.3. Proceed to Item 2.B
	B.	Is the onsite wetland within the development area or within 100 feet of the development?
		No → Proceed to Item 2.C Yes → Submit a copy of the US Army Corps of Engineers (Corps) Jurisdictional Determination letter. Proceed to Item 2.D
	C.	Is an indirect wetland impact proposed? ■ No → Proceed to Item 3
	D.	Does the Corps regulate the onsite wetland?
		\square No \rightarrow Proceed to Item 2.F \square Yes \rightarrow Proceed to Item 2.E
	E.	Will the Corps regulated wetland be impacted by the development?
		No → Proceed to Item 5 Submit a copy of the Corps permit application. (Approved Corps permit required prior to issuance.) Proceed to Item 4
	F.	Will the isolated wetland or associated buffer be impacted by the development?
		\square No \rightarrow Proceed to Item 5 \square Yes \rightarrow Proceed to Item 4
3.		FSITE WETLANDS (Wetlands located outside the property holdings are considered offsite wetlands. If multiple lands are located offsite within 100 feet of the property holdings, submit a separate Schedule W for each wetland.)
	A.	Is there an offsite wetland located within 100 feet of the development site?
		No → Proceed to Item 3.E
	B.	Can a Corps Jurisdictional Determination letter be obtained?
		No → Consider high quality isolated wetland Proceed to Item 3.C
	C.	Does the wetland buffer extend onto the development?
		\square No \rightarrow Proceed to Item 3.E \square Yes \rightarrow Proceed to Item 3.D
	D.	Is the wetland or associated buffer impacted by the development?
		\square No \rightarrow Proceed to Item 3.E \square Yes \rightarrow Proceed to Item 4
	E.	Is an indirect wetland impact proposed?

☐ Yes → Proceed to Item 4

4.	MI	TIGATION FOR WETLAND IMPACTS
		☐ Standard Isolated ☐ High Quality Isolated ☐ Corps Jurisdictional
		Prepare the wetland/buffer submittal and briefly describe the impacts and proposed mitigation, below. (If the wetland is a Corps regulated wetland, briefly describe the wetland impacts and mitigation proposed under the Corps permit.) The Des Plaines River Waters of the U.S./Wetland is USACE regulated but will not be impacted by the proposed project. Work will occur within the upland buffer but work is confined to the existing multi-use trail surface. The existing multi-use trail footprint will not be widened. Adjacent vegetation and trees within the buffer will be avoided with the use of construction barrier and silt fence.
5.	ST	ORMWATER DETENTION WITHIN THE WETLAND
	A.	Is stormwater detention proposed within the wetland?
		\blacksquare No → Proceed to Item 6 \square Yes → Proceed to Item 5.B
	В.	Is the wetland regulated by the Corps and is a Corps permit required for the development?
		\blacksquare No → Proceed to Item 5.D \square Yes → Proceed to Item 5.C
	C.	Did the Corps approve placing detention in the wetland?
		 No → Detention not allowed Yes → Submit a copy of the approved Corps permit Proceed to Item 6
	D.	Is the wetland considered a high quality isolated wetland?
		No → Hydrologic study required ☐ Yes → Detention not allowed
6.	RII	PARIAN ENVIRONMENTS
	A.	Is there a riparian environment located onsite?
		\square No \rightarrow Proceed to Item 8 \square Yes \rightarrow Proceed to Items 6.B and 6.C
	B.	Indicate the conditions that apply:
		Jurisdictional Waters of the U.S. (50-ft buffer from OHWM)
		☐ Jurisdictional or isolated waters with BSC of "A" or "B" or BSS Streams (100-ft buffer from OHWM)
		☐ Isolated Waters (30-ft buffer from OHWM)
	C.	Is the riparian environment adversely impacted by the development?
		■ No \rightarrow Proceed to Item 8
7.	MI	TIGATION FOR RIPARIAN IMPACTS
	A.	Prepare a riparian submittal and briefly describe the impacts and proposed mitigation: The riparian environment consists of the existing degraded multi-use trail which will be improved in the post-construction condition. The multi-use trail improvements are limited to the surface of the existing trail. The existing footprint of the multi-use trail will not be widened and adjacent vegetation and trees will be avoided with the use of construction barrier and silt fence.
8.	WI	ETLAND SPECIALIST CERTIFICATION
		NOTE: If the answers to Items 2.D, 2.F, 3.E, 5.A or 6.C are yes, prepare the appropriate wetland, buffer and riparian environment submittals with supporting documentation along with the Watershed Management Permit application. (Electronic signatures are not accepted.)
		Company/Agency: Christopher B. Burke Engineering, Ltd.
		Wetland Specialist: Thomas G. McArdle Title: Manager, Environmental Resources Department
		Signature: Date: Shlv

SCHEDULE W

WMO Permit Number: ___

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NA	ME (OF PROJECT: Reconstruction of Des Plaines River Trail - Segment 1						
		e all items, unless instructed to proceed to a later section.						
1.	WE	WETLAND IDENTIFICATION: Wetland Area #1						
2.	ON	SITE WETLANDS (Wetlands located within the property holdings are considered onsite wetlands. If multiple lands are located within the property holdings, submit a separate Schedule W for each wetland.)						
	A.	Is a wetland or farmed wetland located on the property interest?						
		No → Proceed to Item 3 Yes → Delineate wetland per §603.3. Proceed to Item 2.B						
	В.	Is the onsite wetland within the development area or within 100 feet of the development?						
		No → Proceed to Item 2.C Submit a copy of the US Army Corps of Engineers (Corps) Jurisdictional Determination letter. Proceed to Item 2.D						
	C.	Is an indirect wetland impact proposed? ■ No → Proceed to Item 3						
	D.	Does the Corps regulate the onsite wetland?						
		\blacksquare No → Proceed to Item 2.F \square Yes → Proceed to Item 2.E						
	E.	Will the Corps regulated wetland be impacted by the development?						
		No → Proceed to Item 5 Submit a copy of the Corps permit application. (Approved Corps permit required prior to issuance.) Proceed to Item 4						
	F.	Will the isolated wetland or associated buffer be impacted by the development?						
		\square No \rightarrow Proceed to Item 5 \square Yes \rightarrow Proceed to Item 4						
3.	OF wet	FSITE WETLANDS (Wetlands located outside the property holdings are considered offsite wetlands. If multiple lands are located offsite within 100 feet of the property holdings, submit a separate Schedule W for each wetland.)						
	A.	Is there an offsite wetland located within 100 feet of the development site?						
		No → Proceed to Item 3.E						
	B.	Can a Corps Jurisdictional Determination letter be obtained?						
		No → Consider high quality isolated wetland Proceed to Item 3.C						
	C.	Does the wetland buffer extend onto the development?						
		\square No \rightarrow Proceed to Item 3.E \square Yes \rightarrow Proceed to Item 3.D						
	D.	Is the wetland or associated buffer impacted by the development?						
		\square No \rightarrow Proceed to Item 3.E \square Yes \rightarrow Proceed to Item 4						
	E.	Is an indirect wetland impact proposed?						
		No -> Proceed to Item 5						

4.	MI	TIGATION FOR WETLAND IMPACTS
		☐ Standard Isolated ☐ High Quality Isolated ☐ Corps Jurisdictional
		Prepare the wetland/buffer submittal and briefly describe the impacts and proposed mitigation, below. (If the wetland is a Corps regulated wetland, briefly describe the wetland impacts and mitigation proposed under the Corps permit.) Wetland #1 is classified as a Standard Isolated wetland by the USACE and will not be impacted by the proposed project. Work will occur within the upland buffer but work is confined to the existing multi-use trail surface. The existing multi-use trail footprint will not be widened. Adjacent vegetation and trees within the buffer will be avoided with the use of construction barrier and silt fence.
5.	STO	DRMWATER DETENTION WITHIN THE WETLAND
	A.	Is stormwater detention proposed within the wetland?
	B.	Is the wetland regulated by the Corps and is a Corps permit required for the development?
		\blacksquare No → Proceed to Item 5.D \square Yes → Proceed to Item 5.C
	C.	Did the Corps approve placing detention in the wetland?
		□ No → Detention not allowed □ Yes → Submit a copy of the approved Corps permit Proceed to Item 6
	D.	Is the wetland considered a high quality isolated wetland?
		\square No \rightarrow Hydrologic study required \square Yes \rightarrow Detention not allowed
6.	RII	PARIAN ENVIRONMENTS
	A.	Is there a riparian environment located onsite?
		\square No \rightarrow Proceed to Item 8 \square Yes \rightarrow Proceed to Items 6.B and 6.C
	В.	Indicate the conditions that apply:
		☐ Jurisdictional Waters of the U.S. (50-ft buffer from OHWM)
		☐ Jurisdictional or isolated waters with BSC of "A" or "B" or BSS Streams (100-ft buffer from OHWM)
		■ Isolated Waters (30-ft buffer from OHWM)
	C.	Is the riparian environment adversely impacted by the development?
7.	MI	TIGATION FOR RIPARIAN IMPACTS
	A.	Prepare a riparian submittal and briefly describe the impacts and proposed mitigation: The riparian environment consists of the existing degraded multi-use trail which will be improved in the post-construction condition. The multi-use trail improvements are limited to the surface of the existing trail. The existing footprint of the multi-use trail will not be widened and adjacent vegetation and trees will be avoided with the use of construction barrier and silt fence.
8.	WI	ETLAND SPECIALIST CERTIFICATION
		NOTE: If the answers to Items 2.D, 2.F, 3.E, 5.A or 6.C are yes, prepare the appropriate wetland, buffer and riparian environment submittals with supporting documentation along with the Watershed Management Permit application. (Electronic signatures are not accepted.)
		Company/Agency: Christopher B. Burke Engineering, Ltd.
		Wetland Specialist: Thomas G. McArdle Title: Manager, Environmental Resources Department Signature: Date: Title: Manager, Environmental Resources Department

SCHEDULE W

WMO Permit Number: ___

22-199

NA	ME	OF PROJECT: Reconstruction of Des Plaines River Trail - Segment 1				
Coi	nplei	te all items, unless instructed to proceed to a later section.				
1.	WETLAND IDENTIFICATION: Wetland Area #2					
2.		SITE WETLANDS (Wetlands located within the property holdings are considered onsite wetlands. If multiple lands are located within the property holdings, submit a separate Schedule W for each wetland.)				
	A.	Is a wetland or farmed wetland located on the property interest?				
		No → Proceed to Item 3 Yes → Delineate wetland per §603.3. Proceed to Item 2.B				
	B.	Is the onsite wetland within the development area or within 100 feet of the development?				
		No → Proceed to Item 2.C Submit a copy of the US Army Corps of Engineers (Corps) Jurisdictional Determination letter. Proceed to Item 2.D				
	C.	Is an indirect wetland impact proposed? ■ No → Proceed to Item 3 Yes → Submit a copy of the US Army Corps of Engineers (Corps) Jurisdictional Determination letter. Proceed to Item 2.D				
	D.	Does the Corps regulate the onsite wetland?				
		\blacksquare No → Proceed to Item 2.F \square Yes → Proceed to Item 2.E				
	E.	Will the Corps regulated wetland be impacted by the development?				
		No → Proceed to Item 5 Submit a copy of the Corps permit application. (Approved Corps permit required prior to issuance.) Proceed to Item 4				
	F.	Will the isolated wetland or associated buffer be impacted by the development?				
		\square No \rightarrow Proceed to Item 5 \square Yes \rightarrow Proceed to Item 4				
3.	OF wei	FSITE WETLANDS (Wetlands located outside the property holdings are considered offsite wetlands. If multiple flands are located offsite within 100 feet of the property holdings, submit a separate Schedule W for each wetland.)				
	A.	Is there an offsite wetland located within 100 feet of the development site?				
		No → Proceed to Item 3.E				
	B.	Can a Corps Jurisdictional Determination letter be obtained?				
		No → Consider high quality isolated wetland Proceed to Item 3.C				
	C.	Does the wetland buffer extend onto the development?				
		\square No \rightarrow Proceed to Item 3.E \square Yes \rightarrow Proceed to Item 3.D				
	D.	Is the wetland or associated buffer impacted by the development?				
		\square No \rightarrow Proceed to Item 3.E \square Yes \rightarrow Proceed to Item 4				
	E.	Is an indirect wetland impact proposed?				
		No → Proceed to Item 5 \square Yes → Proceed to Item 4				

SCHEDULE W

WMO Permit Number: _

22-199

4.	MI	TIGATION FOR WETLAND IMPACTS
		☐ Standard Isolated ☐ High Quality Isolated ☐ Corps Jurisdictional
		Prepare the wetland/buffer submittal and briefly describe the impacts and proposed mitigation, below. (If the wetland is a Corps regulated wetland, briefly describe the wetland impacts and mitigation proposed under the Corps permit.) Wetland #1 is classified as a Standard Isolated wetland by the USACE and will not be impacted by the proposed project. Work will occur within the upland buffer but work is confined to the existing multi-use trail surface. The existing multi-use trail footprint will not be widened. Adjacent vegetation and trees within the buffer will be avoided with the use of construction barrier and silt fence.
5.	ST	ORMWATER DETENTION WITHIN THE WETLAND
	A.	Is stormwater detention proposed within the wetland?
	B.	Is the wetland regulated by the Corps and is a Corps permit required for the development?
		\blacksquare No → Proceed to Item 5.D \square Yes → Proceed to Item 5.C
	C.	Did the Corps approve placing detention in the wetland?
		No → Detention not allowed Yes → Submit a copy of the approved Corps permit Proceed to Item 6
	D.	Is the wetland considered a high quality isolated wetland?
		\square No \rightarrow Hydrologic study required \square Yes \rightarrow Detention not allowed
6.	RI	PARIAN ENVIRONMENTS
	A.	Is there a riparian environment located onsite?
		\square No \rightarrow Proceed to Item 8 \square Yes \rightarrow Proceed to Items 6.B and 6.C
	B.	Indicate the conditions that apply:
		☐ Jurisdictional Waters of the U.S. (50-ft buffer from OHWM)
		☐ Jurisdictional or isolated waters with BSC of "A" or "B" or BSS Streams (100-ft buffer from OHWM)
		■ Isolated Waters (30-ft buffer from OHWM)
	C.	Is the riparian environment adversely impacted by the development?
		■ No \rightarrow Proceed to Item 8
7.	MI	TIGATION FOR RIPARIAN IMPACTS
	A.	Prepare a riparian submittal and briefly describe the impacts and proposed mitigation: The riparian environment consists of the existing degraded multi-use trail which will be improved in the post-construction condition. The multi-use trail improvements are limited to the surface of the existing trail. The existing footprint of the multi-use trail will not be widened and adjacent vegetation and trees will be avoided with the use of construction barrier and silt fence.
8.	WI	ETLAND SPECIALIST CERTIFICATION
		NOTE: If the answers to Items 2.D, 2.F, 3.E, 5.A or 6.C are yes, prepare the appropriate wetland, buffer and riparian environment submittals with supporting documentation along with the Watershed Management Permit application. (Electronic signatures are not accepted.)
		Company/Agency: Christopher B. Burke Engineering, Ltd.
		Wetland Specialist: Thomas G. McArdle Title: Manager, Environmental Resources Department
		Signature: Date: S/11/22

NA	ME	E OF PROJECT: Reconstruction of De	es i	Plain	es R	iver Trail - Segment 1	
Coi	mple	ete all items, unless instructed to proceed to	a i	later s	ectio	n.	
1	WETLAND IDENTIFICATION: Wetland Area #3						
1.	VVI	ETLANDIDENTIFICATION:		riou /			
2. ONSITE WETLANDS (Wetlands located within the property holdings are considered onsite wetlands. If multiwetlands are located within the property holdings, submit a separate Schedule W for each wetland.)							
	A.	Is a wetland or farmed wetland located on	th	e prop	erty	interest?	
		\square No \rightarrow Proceed to Item 3		Yes	\rightarrow	Delineate wetland per §603.3. Proceed to Item 2.B	
	B.	Is the onsite wetland within the development	ent	t area	or wi	thin 100 feet of the development?	
				Yes	\rightarrow	Submit a copy of the US Army Corps of Engineers (Corps) Jurisdictional Determination letter. Proceed to Item 2.D	
	C.	Is an indirect wetland impact proposed? ■ No → Proceed to Item 3		Yes	\rightarrow	Submit a copy of the US Army Corps of Engineers (Corps) Jurisdictional Determination letter. Proceed to Item 2.D	
	D.	Does the Corps regulate the onsite wetland	d?				
		■ No \rightarrow Proceed to Item 2.F		Yes	\rightarrow	Proceed to Item 2.E	
	E.	Will the Corps regulated wetland be impact	cte	d by t	he de	evelopment?	
		■ No \rightarrow Proceed to Item 5		Yes	\rightarrow	Submit a copy of the Corps permit application. (Approved Corps permit required prior to issuance.) Proceed to Item 4	
	F.	Will the isolated wetland or associated but	ffe	r be ir	npac	ted by the development?	
		\square No \rightarrow Proceed to Item 5		Yes	\rightarrow	Proceed to Item 4	
3.						operty holdings are considered offsite wetlands. If multiple holdings, submit a separate Schedule W for each wetland.)	
	A.	Is there an offsite wetland located within	100) feet	of the	e development site?	
		■ No \rightarrow Proceed to Item 3.E		Yes	\rightarrow	Delineate wetland per §603.5 and follow §603.6. Proceed to Item 3.B	
	B.	Can a Corps Jurisdictional Determination	let	ter be	obta	ined?	
		No → Consider high quality isolated wetland Proceed to Item 3.C		Yes	\rightarrow	Proceed to Item 3.C	
	C.	Does the wetland buffer extend onto the d	eve	elopm	ent?		
		\square No \rightarrow Proceed to Item 3.E		Yes	\rightarrow	Proceed to Item 3.D	
	D.	Is the wetland or associated buffer impacted	ed	by the	dev	elopment?	
	•			-		Proceed to Item 4	
	E.	Is an indirect wetland impact proposed?					
			٦	Yes	\rightarrow	Proceed to Item 4	

4.	MI	TIGATION FOR WETLAND IMPACTS
		☐ Standard Isolated ☐ High Quality Isolated ☐ Corps Jurisdictional
		Prepare the wetland/buffer submittal and briefly describe the impacts and proposed mitigation, below. (If the wetland is a Corps regulated wetland, briefly describe the wetland impacts and mitigation proposed under the Corps permit.) Wetland #1 is classified as a Standard Isolated wetland by the USACE and will not be impacted by the proposed project. Work will occur within
		the upland buffer but work is confined to the existing multi-use trail surface. The existing multi-use trail footprint will not be widened. Adjacent vegetation and trees within the buffer will be avoided with the use of construction barrier and silt fence.
		be wideled. Adjacent regetation and trees within the butter will be avoided with the use of constitution barrier and site fence.
5.	ST	DRMWATER DETENTION WITHIN THE WETLAND
	A.	Is stormwater detention proposed within the wetland?
	B.	Is the wetland regulated by the Corps and is a Corps permit required for the development?
	C.	Did the Corps approve placing detention in the wetland?
		\square No \rightarrow Detention not allowed \square Yes \rightarrow Submit a copy of the approved Corps permit Proceed to Item 6
	D.	Is the wetland considered a high quality isolated wetland?
		\square No \rightarrow Hydrologic study required \square Yes \rightarrow Detention not allowed
6.	RII	PARIAN ENVIRONMENTS
	A.	Is there a riparian environment located onsite?
		\square No \rightarrow Proceed to Item 8 \square Yes \rightarrow Proceed to Items 6.B and 6.C
	B.	Indicate the conditions that apply:
		☐ Jurisdictional Waters of the U.S. (50-ft buffer from OHWM)
		☐ Jurisdictional or isolated waters with BSC of "A" or "B" or BSS Streams (100-ft buffer from OHWM)
		■ Isolated Waters (30-ft buffer from OHWM)
	C.	Is the riparian environment adversely impacted by the development?
7.	MI	TIGATION FOR RIPARIAN IMPACTS
	A.	Prepare a riparian submittal and briefly describe the impacts and proposed mitigation:
		The riparian environment consists of the existing degraded multi-use trail which will be improved in the post-construction condition. The multi-use trail improvements are limited to the surface of the existing trail. The existing footprint of the multi-use trail will not be widened
		and adjacent vegetation and trees will be avoided with the use of construction barrier and silt fence.
8.	WE	TLAND SPECIALIST CERTIFICATION
		NOTE: If the answers to Items 2.D, 2.F, 3.E, 5.A or 6.C are yes, prepare the appropriate wetland, buffer and riparian environment submittals with supporting documentation along with the Watershed Management Permit application. (Electronic signatures are not accepted.)
		Company/Agency: Christopher B. Burke Engineering, Ltd.
		Wetland Specialist: Thomas G. McArdle Title: Manager, Environmental Resources Department
		Signature //

SCHEDULE W

WMO Permit Number: _____

22-199

WETLANDS, BUFFERS & RIPARIAN ENVIRONMENTS

NA	ME	OF PROJECT: Reconstruction of Des Plaines River Trail - Segment 1				
Cor	nple	te all items, unless instructed to proceed to a later section.				
1.	WETLAND IDENTIFICATION: Wetland Area #4					
2.	ONSITE WETLANDS (Wetlands located within the property holdings are considered onsite wetlands. If multiple wetlands are located within the property holdings, submit a separate Schedule W for each wetland.)					
	A	Is a wetland or farmed wetland located on the property interest?				
	7	No → Proceed to Item 3 Yes → Delineate wetland per §603.3. Proceed to Item 2.B				
	В.	Is the onsite wetland within the development area or within 100 feet of the development?				
	Б.	No → Proceed to Item 2.C Yes → Submit a copy of the US Army Corps of Engineers (Corps) Jurisdictional Determination letter. Proceed to Item 2.D				
	C.	Is an indirect wetland impact proposed? ■ No → Proceed to Item 3				
	D.	Does the Corps regulate the onsite wetland?				
	E.	Will the Corps regulated wetland be impacted by the development?				
		No → Proceed to Item 5 Submit a copy of the Corps permit application. (Approved Corps permit required prior to issuance.) Proceed to Item 4				
	F.	Will the isolated wetland or associated buffer be impacted by the development?				
		\square No \rightarrow Proceed to Item 5 \square Yes \rightarrow Proceed to Item 4				
3.		FSITE WETLANDS (Wetlands located outside the property holdings are considered offsite wetlands. If multiple lands are located offsite within 100 feet of the property holdings, submit a separate Schedule W for each wetland.)				
	A.	Is there an offsite wetland located within 100 feet of the development site?				
		No → Proceed to Item 3.E				
	B.	Can a Corps Jurisdictional Determination letter be obtained?				
		No → Consider high quality isolated wetland Proceed to Item 3.C				
	C.	Does the wetland buffer extend onto the development?				
	D.	Is the wetland or associated buffer impacted by the development?				
	E.	Is an indirect wetland impact proposed?				
		\blacksquare No → Proceed to Item 5 \blacksquare Yes → Proceed to Item 4				

10/19

4.	MI	TIGATION FOR WETLAND IMPACTS
		☐ Standard Isolated ☐ High Quality Isolated ☐ Corps Jurisdictional
		Prepare the wetland/buffer submittal and briefly describe the impacts and proposed mitigation, below. (If the wetland is a Corps regulated wetland, briefly describe the wetland impacts and mitigation proposed under the Corps permit.) Wetland #1 is classified as a Standard Isolated wetland by the USACE and will not be impacted by the proposed project. Work will occur within the upland buffer but work is confined to the existing multi-use trail surface. The existing multi-use trail footprint will not be widened. Adjacent vegetation and trees within the buffer will be avoided with the use of construction barrier and silt fence.
5.	STO	ORMWATER DETENTION WITHIN THE WETLAND
	A.	Is stormwater detention proposed within the wetland?
	В.	Is the wetland regulated by the Corps and is a Corps permit required for the development?
		\blacksquare No → Proceed to Item 5.D \square Yes → Proceed to Item 5.C
	C.	Did the Corps approve placing detention in the wetland?
		No → Detention not allowed Yes → Submit a copy of the approved Corps permit Proceed to Item 6
	D.	Is the wetland considered a high quality isolated wetland?
		No → Hydrologic study required Yes → Detention not allowed
6.	RII	PARIAN ENVIRONMENTS
	A.	Is there a riparian environment located onsite?
		\square No \rightarrow Proceed to Item 8 \square Yes \rightarrow Proceed to Items 6.B and 6.C
	B.	Indicate the conditions that apply:
		☐ Jurisdictional Waters of the U.S. (50-ft buffer from OHWM)
		Jurisdictional or isolated waters with BSC of "A" or "B" or BSS Streams (100-ft buffer from OHWM)
		Isolated Waters (30-ft buffer from OHWM)
	C.	Is the riparian environment adversely impacted by the development?
7.	MI	TIGATION FOR RIPARIAN IMPACTS
	A.	Prepare a riparian submittal and briefly describe the impacts and proposed mitigation: The riparian environment consists of the existing degraded multi-use trail which will be improved in the post-construction condition. The multi-use trail improvements are limited to the surface of the existing trail. The existing footprint of the multi-use trail will not be widened and adjacent vegetation and trees will be avoided with the use of construction barrier and silt fence.
8.	WI	ETLAND SPECIALIST CERTIFICATION
		NOTE: If the answers to Items 2.D, 2.F, 3.E, 5.A or 6.C are yes, prepare the appropriate wetland, buffer and riparian environment submittals with supporting documentation along with the Watershed Management Permit application. (Electronic signatures are not accepted.)
		Company/Agency: Christopher B. Burke Engineering, Ltd.
		Wetland Specialist: Thomas G. McArdle Title: Manager, Environmental Resources Department
		Signature: Date: STATE

SPECIAL CONDITIONS FOR PERMIT NO. 22-199

- 1. Construction must conform to the soil erosion and sediment control requirements of this permit and any other local, state, and/or federal agencies.
- 2. This permit is issued subject to the open space requirements of the WMO only, and is not subject to the volume control and detention requirements.
- 3. This permit is issued subject to the runoff requirements of the WMO and in reliance of the drainage certification submitted by the design engineer. Development under this permit shall not increase flood elevations or decrease flood conveyance capacity of the area upstream or downstream of the developed property covered under this permit.
- 4. Construction must conform to the wetland and riparian requirements of this permit and the requirements of the U.S. Army Corps of Engineers.
- 5. The MWRD shall have 24 hour-a-day unrestricted access to all MWRD structures/sewers/facilities.
- 6. No debris shall enter MWRD structures/sewers/facilities/waterways.
- 7. All access hatches/manhole covers on MWRD structures/manholes within the project area shall not be buried/covered.

ENGINEERING	CERTIFICATIONS	

	Watershed Mana	gement Permi	t No.	2	22-199	9
accordance with the req laws, and design criteri- proper and adequate; the system has been examin	Y DESIGN ENGINEER uirements set forth in this applica a of the issuing authority; that that where the design involves one and the system is found to be wer without violating any provisi	tion and all applic he storm drainage or more connection adequate to trans	able ordinances, ru and sanitary sewe ons to an existing le port the stormwate	les, regulation r system des ocal sewer sy r and/or wast	ns, local, a igned for stem, the ewater th	state and feder this project a capacity of sai at will be adde
Tuginosuing Finn	. Christophor P. Burko Enginee	oring 1 td	Telephon	e: (84 <u>7</u>) (823 -	0500
Engineering Firm	: Christopher B. Burke Enginee	anny, Eta,	relephon	C. (OTI)		0000
	. Higgins Road, Suite 600		Rosemont	Zip: Date:	60018 _5/11	122
LICENSEL		(Name and Title)				
PROFESSIONAL EM	ail Address: <u>mworman@</u>	gcbbel.com				
I hereby certify that	the project area is within th				170	
Owner of Local S	Other of Paul		rporate limits.	YES [_]	NO	
Owner of Local So Williticipal Engine	ewer System: City of Parl			YES		155
	ewer System: City of Parl er: Sarah Mitchell					
SARAH E. Sign MITEMELL SEM MITEMELL SEM	ewer System: City of Parl er: Sarah Mitchell	City: (Name and Title)	Telej Park Ridge		7) 318-54 Zip_ <u>(</u>	30068
SARAH E. Sign SARAH E. Sign MISEAUELU E E E E E E E E E E E E E E E E E E	ewer System: City of Parl er: Sarah Mitchell er Place nature: Suel III	City: City: (Name and Title) parkridge.us EER: I hereby certhis application; the maintenance, designed undersigned En	Park Ridge City Engine rtify that construct hat approval will be furnished by the construct will be furnished by the construct will be furnished.	Date: On of the profe obtained frivice area or ished to the l	7) 318-54 Zip 6 5-27 ject will be om the is the Permi	7-22 De in substantisuing authoritrequiremen
SARAH E. Sign SARAH E. Sign MISEALEL EM MISEALEL EM MI	ewer System: City of Parlier: Sarah Mitchell ler Place nature: Smitchell@parlier ail Address: Smitchell@parlier Y INSPECTION ENGINE a and the plans submitted with anges that would affect capacity, rawings, signed and sealed by the ding and approval by the District of the search	City: City: (Name and Title) parkridge.us EER: I hereby certhis application; the maintenance, designed undersigned Enor Authorized Municipal Control of the control of	Telep Park Ridge City Engine rtify that construct hat approval will be furnicipality of the construct of the construction of the constructio	Date: On of the profe obtained frivice area or ished to the limpleted work	7) 318-54 Zip 6	7-22 De in substantisuing authoritit requirement
SARAH E. Sign MISEALEL SIGN MISEALE SIGN MISEA	ewer System: City of Parlier: Sarah Mitchell ler Place nature: Smitchell@parlier ail Address: Smitchell@parlier Y INSPECTION ENGINE a and the plans submitted with anges that would affect capacity, rawings, signed and sealed by the ding and approval by the District of the search	City: City: (Name and Title) parkridge.us CER: I hereby ce this application; the maintenance, designed En or Authorized Mun Engineering, Lte	Telep Park Ridge City Engine rtify that construct hat approval will be furnicipality of the construct of the construction of the constructio	Date: On of the proper obtained frivice area or ished to the limpleted work	7) 318-54 Zip 6 5-27 ject will be om the is the Permi District on the 347) 82	7-22 e in substanti suing authori it requirement r an Authorize
SARAH E. Signal Engine 505 Butt 505 Butt 505 Butt 5062-060392 Em CHARAN ATE BY Signal Engine With the dat prior to making any character that a set of RECORD of Municipality before test Engineering Firm Address: 9575	ewer System: City of Parlet. Sarah Mitchell er Place nature: Smitchell@i ail Address: Smitchell@i Y INSPECTION ENGINE a and the plans submitted with enges that would affect capacity, relawings, signed and sealed by the district of the company of the company of the plans of the company of	City: City: (Name and Title) parkridge.us CER: I hereby ce this application; the maintenance, designed En or Authorized Mun Engineering, Lte	Teleperate Park Ridge City Engine Tify that construct hat approval will be furn requirements, segineer will be furn hicipality of the cod. Teleperate Park Ridge	Date: On of the proper obtained frivice area or ished to the limpleted work	7) 318-54 Zip 6	oe in substanti suing authori it requirement an Authoriz
SARAHE Signal Engine SARAHE Signal Engineering Firm Address: 9575 COZ-US 360 PENSED PROFESSIONAL ENGINEER	ewer System: City of Parler: Sarah Mitchell ler Place mature: Smitchell@ ail Address: smitchell@ Y INSPECTION ENGINE a and the plans submitted with enges that would affect capacity, relawings, signed and sealed by the ling and approval by the District of the Christopher B. Burke E. W. Higgins Road, Suite 6	City: (Name and Title) parkridge.us EER: I hereby centhis application; the maintenance, designed Endor Authorized Municipal City: (Name and Title)	Teleperate Park Ridge City Engine Tify that construct hat approval will be furn requirements, segineer will be furn hicipality of the cod. Teleperate Park Ridge	Date: Date: On of the profe obtained frivice area or ished to the limpleted work phone: (8	7) 318-54 Zip 6	oe in substanti suing authori it requirement an Authoriz

SPECIAL CONDITIONS

Watershed Management Permit No.

22-199

This Permit is issued subject to the General Conditions and the attached Special Conditions.

If Permit	t is granted:	
	se return two (2) copies of the Permit to the Permittee; or se mail one (1) copy to Permittee and one (1) copy to the person designated below:	
Name:	Darren T. Olson, PE, CFM, D.WRE	
Addres	s: 9575 W. Higgins Road, Suite 600, Rosemont, IL60018	
Email	: dolson@cbbel.com	

CERTIFICATE BY APPLICANTS: We have read and thoroughly understand the conditions and requirements of this Permit application, and agree to conform to the Permit conditions and other applicable requirements of the District. It is understood that construction hereunder, after the Permit is granted, shall constitute acceptance by the applicants of any Special Conditions that may be placed hereon by the District or an Authorized Municipality. It is further understood that this application shall not constitute a Permit until it is approved, signed and returned by the Director of Engineering of the District or Enforcement Officer of an Authorized Municipality.

PERMITTEE The project area is within municipal corporate limits. Yes No Not Applicable	CO-PERMITTEE (Co-Permittee is Property Owner) Title to property is held in a land trust: Yes No If yes, Co-Permittee shall be beneficiary with Power of Direction
Municipality City of Park Ridge	Owner Forest Preserves of Cook County
Address 505 Butler Place	Address 536 N. Harlem Avenue
City Park Ridge Zip 60068	City River Forest Zip 60305
Signature Om O holledo	Signature Pamela Sielski
Name Salab Mitchell	Name Pamela Sielski
(Print) Title City Engineer	(Print) Title Landscane Architect/ Brolest Manager
Oity Engineer	Landscape Architect/ Project Manager
Date 5-27-22 Phone (847) 318-5455	Date 05/24/2022 Phone 708-771-1355
Email smitchell@parkridge.us	Email Pamela.sielski@cookcountyil.gov

REVIEW AND APP	ROVAL BY THE DISTRICT OR AUTHORIZED MUNICIPALITY
Reviewed by:	Parchina Date 10/04/2022
	(Local Sewer Systems) or (Professional Engineer)
Approved for Issue	Daniel M. Feltes
Approved by:	Cariel M. Lette 10/11/2022 Date 10/11/2022
(For t	ne Director of Engineering) or (Enforcement Officer)



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 III. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 III. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

	cation Information			
ARCHIOCHARDS SAME BUSINESS	cation of the source of the ur		ehab Office Phone Num	nber, if available: 847-823-0500
Physical Site Loc	cation (address, including nu er Trail from Devon to Touhy	ımber and street):		
	emont	State: IL	Zip Code: 60068	
County: Cool	k	Township: Maine		
Lat/Long of appro Latitude: 42.002		imal degrees (DD.d 87.85856	ldddd) to five decimal pla	aces (e.g., 40.67890, -90.12345):
Identify how the I	nal Degrees) at/long data were determine flap Interpolation		Survey 🕢 Other	
EDR First Repor	t Historia			
IEPA Site Numbe	er(s), if assigned: BOL: N	None	BOW: None	BOA: None
Approximate Sta	rt Date (mm/dd/yyyy):		Approximate End Date	(mm/dd/yyyy):
	ne of debris (cu. Yd.): erator Information for	Source Site		
Site Owner			Site Operator	
Name:	Forest Preserve District of Cook	County	Name:	
Street Address:	536 N. Harlem Ave		Street Address:	
PO Box:			PO Box:	
City:	River Forest	State: IL	City:	State:
Zip Code:	60305 Phone:		Zip Code:	Phone:
Contact:	Pam Sielski		Contact:	- The same at the
Email. if available	e: pamela.sielski@cookcountyil.go	ov	Email, if available:	

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

IL 532-2922 LPC 663 Rev. 1/2019

Uncontaminated Soil Certification

Page 1 of 2

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

See attached report. Topographic maps reviewed to 1891 and aerials to 1938. Source site agricultural/wooded since before that time. Dee Road along east after 1938. Maine South HS off southeast and office park on east after 1963. EDR identified high school on environmental database search. 13 soil borings performed.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 III. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0,including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 III. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

Samples PID screened identified no volatile organics. Samples C-201, C-204, C-208, and B-302, representing Site conditions, collected for analysis of VOCs, PNAs, total RCRA metals, & pH. Analytical results verify the soil meets MACs after chromium SPLP on C-204 and B-302. pH range of 7.41 to 8.46 also between 6.25 and 9.0, therefore, soil is uncontaminated.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

Professional Geo	logist			
I, Aaron J. Ulrey			(name of licensed professional engineer or geolog	ist)
the best of my knowled ILCS 5/22.51 or 22.51 certify that the soil pH	dge and belief, true, accura a] and 35 III. Adm. Code 11	te and complete. 00.205(a), I certify to 9.0. In addition,	g but not limited to, all attachments and other informat In accordance with the Environmental Protection Act y that the soil from this site is uncontaminated soil. I a , I certify that the soil has not been removed from the nentation is attached.	[415 also
			lent material statement, orally or in writing, to the see after conviction is a Class 3 felony. (415 ILCS 5	
Company Name:	Testing Service Corp	oration		
Street Address:	360 South Main Place	е		
City:	Carol Stream	State: IL	Zip Code: 60188	-
Phone:	630-462-2600			
Aaron J. Ulrey				
Printed Name:			3-24-2022 Date: ARON JONIAN PROFESSIONE GEOLOGISTER OF COLOGISTER DE COLOGI	WHITHIN WAY

IL 532-2922 LPC 663 Rev. 1/2019

Uncontaminated Soil Certification

Page 2 of 2



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 III. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 III. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

	tion Information on of the source of the ur	ncontaminated soi	IV		
Project Name:	Des Plaines River		,	lumber, if available:	
Physical Site Locati	on (address, including nu Avenue (Southeast corne	umber and street):		,	
City: Park R	idge	State: IL	Zip Code: 60068		
County: Cook		Township: Main	е		
Lat/Long of approxi	mate center of site in dec	imal degrees (DD	.ddddd) to five decimal	places (e.g., 40.678	390, -90.12345):
Latitude: 42.01021	Longitude: -	87.85875			
(Decimal Identify how the lat/	Degrees) long data were determine	(-Decimal Degree: ed:	s)		
○ GPS ② Map	Interpolation (Photo	Interpolation () Survey \bigcirc Other		
IEPA Site Number(s	s), if assigned: BOL:		BOW:	BOA:	
Approximate Start I	Date (mm/dd/yyyy): <u>N/A</u>	١	Approximate End D	ate (mm/dd/yyyy):	N/A
Estimated Volume	of debris (cu. Yd.): 7		_		
II. Owner/Opera Site Owner	ator Information for	Source Site	Site Operator		
Name:	Illinois Department o	f Transportation	Name:	Illinois Departme	ent of Transportation
Street Address:	201 We	est Center Court	Street Address:	20	1 West Center Court
PO Box:			PO Box:		
City:	Schaumburg	State: IL	City:	Schaumb	ourg State: IL
Zip Code:	60196-1096 Phone:	847-705-4122	Zip Code:	60196-1096 Pho	ne: 847-705-4122
Contact:	Irma	Romiti-Johnson	Contact:	lr	ma Romiti-Johnson
Email, if available:	Irma Romiti-Johns	son@illinois.gov	Email, if available:	Irma Romiti-J	ohnson@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Proj	ect Name:	Des Plaines River Trail	Latitude: 42.01021	Longitude: - 87.85875

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 III. Adm. Code 1100.610(a)]:

LOCATION 3880-7-B01 WAS SAMPLED ADJACENT TO SITE 3880-7. SEE TABLE 3b AND FIGURE 4 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 III. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0,including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 III. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-218277-1.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

In Savo Radulovic, L.P.G (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 III. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Street Address: 420 Eisenhower Lane North

City: Lombard State: IL Zip Code: 60148

Phone: 630-953-3332

Savo Radulovic

Printed Name:

Licensed Professional Engineer or

Licensed Professional Geologist Signature:

Sep 26, 2022

Date:





Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 III. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 III. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

	tion Information on of the source of the ur	ocontaminated soil	I)				
Project Name:	Des Plaines Rive		•	Number, if availab	le:		
Physical Site Locati	on (address, including nu uhy Avenue (SW corner	ımber and street):				and Dee F	 Road)
City: Park Ri	dge	State: IL	Zip Code: 60068 8	k 60018			
County: Cook		Township: Main	е				
Lat/Long of approxi	mate center of site in dec	imal degrees (DD	.ddddd) to five decimal	l places (e.g., 40.6	37890, - 90	0.12345):	
Latitude: 41.99611	Longitude: -	87.85681					
(Decimal Identify how the lat/	Degrees) long data were determine	(-Decimal Degrees ed:	s)				
	Interpolation O Photo	Interpolation () Survey \bigcirc Other				
IEPA Site Number(s	s), if assigned: BOL:		BOW:	BOA:			
Approximate Start [Date (mm/dd/yyyy): <u>N/A</u>	١	Approximate End D	oate (mm/dd/yyyy)): <u>N/A</u>		
Estimated Volume	of debris (cu. Yd.): 589)	_				
II. Owner/Opera Site Owner	ator Information for	Source Site	Site Operator				
Name:	Illinois Department o	f Transportation	Name:	Illinois Depart	tment of T	Γransporta	tion
Street Address:	201 We	est Center Court	Street Address:		201 West	t Center C	ourt
PO Box:			PO Box:				
City:	Schaumburg	State:IL	City:	Schau	ımburg	State:	IL
Zip Code:	60196-1096 Phone:	847-705-4122	Zip Code:	60196-1096 F	hone:{	847-705-4	122
Contact:	Irma	Romiti-Johnson	Contact:		Irma Ro	omiti-John	son
Email, if available:	Irma Romiti-Johns	on@illinois.gov	Email, if available:	Irma Romi	ti-Johnso	n@illinois.	gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: Des Plaines River Trail Latitude: 41.99611 Longitude: - 87.85681

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 III. Adm. Code 1100.610(a)]:

LOCATIONS 3880-9-B01, 3880-9-B02, 3880-9-B03, 3880-9-B04, 3880-9-B05, 3880-9-B06 AND 3880-9-B07 WERE SAMPLED ADJACENT TO SITE 3880-9. SEE TABLE 3c AND FIGURES 2 THROUGH 4 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 III. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0,including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 III. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-218278-1.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

In Savo Radulovic, L.P.G (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 III. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Andrews Engineering, Inc.

Street Address: 420 Eisenhower Lane North

City: Lombard State: IL Zip Code: 60148

Phone: 630-953-3332

Savo Radulovic

Printed Name:

Licensed Professional Engineer or

Licensed Professional Geologist Signature:

Sep 26, 2022

Date:





Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 III. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 III. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

	tion Information		IN.	
Project Name:	on of the source of the ur Des Plaines River		•	lumber, if available:
Physical Site Locati	on (address, including nu pad (Northeast corner of l	mber and street):		
City: Park Ri	idge	State: IL	Zip Code: 60068	
County: Cook		Township: Main	е	
Lat/Long of approxi	mate center of site in dec	imal degrees (DD	.ddddd) to five decimal	places (e.g., 40.67890, -90.12345):
Latitude: <u>41.99611</u>	Longitude: -	87.85532		
(Decimal	Degrees) long data were determine	(-Decimal Degrees	s)	
	Interpolation Photo	Interpolation C		DOA:
IEPA Site Number(s	,		BOW:	BOA:
Approximate Start I Estimated Volume		1	Approximate End D 	rate (mm/dd/yyyy): <u>N/A</u>
II. Owner/Opera Site Owner	ator Information for	Source Site	Site Operator	
Name:	Illinois Department o	f Transportation	Name:	Illinois Department of Transportation
Street Address:	201 We	st Center Court	Street Address:	201 West Center Court
PO Box:			PO Box:	
City:	Schaumburg	State:IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone:	847-705-4122	Zip Code:	60196-1096 Phone: 847-705-4122
Contact:	Irma	Romiti-Johnson	Contact:	Irma Romiti-Johnson
Email, if available:	Irma Romiti-Johns	on@illinois.gov	Email, if available:	Irma Romiti-Johnson@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: Des Plaines River Trail Latitude: 41.99611 Longitude: - 87.85532

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 III. Adm. Code 1100.610(a)]:

LOCATION 3880-14-B01 WAS SAMPLED ADJACENT TO SITE 3880-14. SEE TABLE 3d AND FIGURE 3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 III. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0,including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 III. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-218280-1.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

Iname of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 III. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name.	Andrews Engineering, Inc.

Street Address: 420 Eisenhower Lane North

City: Lombard State: IL Zip Code: 60148

Phone: 630-953-3332

Savo Radulovic

Printed Name:

Licensed Professional Engineer or

Licensed Professional Geologist Signature:

Sep 26, 2022

Date:





Illinois Environmental Protection Agency

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Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

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This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

	tion Information on of the source of the ur	contaminated soil	`	
Project Name:	Des Plaines River		,	lumber, if available:
Physical Site Locati	on (address, including nu Devon Avenue (Southwe	mber and street):		
City: Park R	idge	State: IL	Zip Code: 60068	
County: Cook		Township: Leyd	en	
Lat/Long of approxi	mate center of site in dec	imal degrees (DD.	ddddd) to five decimal	places (e.g., 40.67890, -90.12345):
Latitude: <u>41.99581</u>	Longitude: -	37.85567	_	
`	Degrees) long data were determine	(-Decimal Degrees	8)	
◯ GPS ⊘ Map	Interpolation (Photo	Interpolation C	Survey Other	
IEPA Site Number(s	s), if assigned: BOL:		BOW:	BOA:
Approximate Start [Date (mm/dd/yyyy): <u>N/A</u>		Approximate End D	ate (mm/dd/yyyy): N/A
Estimated Volume	of debris (cu. Yd.): 11		_	
II. Owner/Opera	ator Information for	Source Site	Site Operator	
Name:	Illinois Department o	Transportation	Name:	Illinois Department of Transportation
Street Address:	201 We	st Center Court	Street Address:	201 West Center Court
PO Box:			PO Box:	
City:	Schaumburg	State: IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone:	847-705-4122	Zip Code:	60196-1096 Phone: 847-705-4122
Contact:	Irma	Romiti-Johnson	Contact:	Irma Romiti-Johnson
Email, if available:	Irma Romiti-Johns	on@illinois.gov	Email, if available:	Irma Romiti-Johnson@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: Des Plaines River Trail Latitude: 41.99581 Longitude: - 87.85567

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 III. Adm. Code 1100.610(a)]:

LOCATION 3880-15-B01 WAS SAMPLED ADJACENT TO SITE 3880-15. SEE TABLE 3e AND FIGURE 3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 III. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0,including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 III. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-218281-1.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

In Savo Radulovic, L.P.G (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415] ILCS 5/22.51 or 22.51a] and 35 III. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

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Company Name: Andrews Engineering, Inc.

Street Address: 420 Eisenhower Lane North

City: Lombard State: IL Zip Code: 60148

Phone: 630-953-3332

Savo Radulovic

Printed Name:

Licensed Professional Engineer or

Licensed Professional Geologist Signature:

Sep 26, 2022

Date:



ACCESSIBLE PEDESTRIAN SIGNALS (APS) (BDE)

Effective: April 1, 2003 Revised: January 1, 2022

<u>Description</u>. This work shall consist of furnishing and installing accessible pedestrian signals (APS). Each APS shall consist of an interactive vibrotactile pedestrian pushbutton with speaker, an informational sign, a light emitting diode (LED) indicator light, a solid-state electronic control board, a power supply, wiring, and mounting hardware. The APS shall meet the requirements of the MUTCD and Sections 801 and 888 of the Standard Specifications, except as modified herein.

<u>Electrical Requirements</u>. The APS shall operate with systems providing 95 to 130 VAC, 60 Hz and throughout an ambient air temperature range of -29 to +160 °F (-34 to +70 °C).

The APS shall contain a power protection circuit consisting of both fuse and transient protection.

<u>Audible Indications</u>. A pushbutton locator tone shall sound at each pushbutton and shall be deactivated during the associated walk indication and when associated traffic signals are in flashing mode. Pushbutton locator tones shall have a duration of 0.15 seconds or less and shall repeat at 1-second intervals. Each actuation of the pushbutton shall be accompanied by the speech message "Wait".

If two accessible pedestrian pushbuttons are placed less than 10 ft (3 m) apart or placed on the same pole, the audible walk indication shall be a speech walk message. This message shall sound throughout the WALK interval only. The verbal message shall be modeled after: "'Street Name.' Walk Sign is on to cross "Street Name'." For signalized intersections utilizing exclusive pedestrian phasing, the verbal message shall be "Walk sign is on for all crossings". In addition, a speech pushbutton information message shall be provided by actuating the APS pushbutton when the WALK interval is not timing. This verbal message shall be modeled after: "Wait. Wait to cross 'Street Name' at 'Street Name'".

Where two accessible pedestrian pushbuttons are separated by at least 10 ft (3 m), the walk indication shall be an audible percussive tone. It shall repeat at 8 to 10 ticks per second with a dominant frequency of 880 Hz.

Automatic volume adjustments in response to ambient traffic sound level shall be provided up to a maximum volume of 100 dBA. Locator tone and verbal messages shall be no more than 5 dB louder than ambient sound.

At locations with railroad interconnection, an additional speech message stating "Walk time shortened when train approaches" shall be used after the speech walk message. At locations with emergency vehicle preemption, an additional speech message "Walk time shortened when emergency vehicle approaches" shall be used after the speech walk message.

<u>Pedestrian Pushbutton</u>. Pedestrian pushbuttons shall be at least 2 in. (50 mm) in diameter or width. The force required to activate the pushbutton shall be no greater than 3.5 lb (15.5 N).

A red LED shall be located on or near the pushbutton which, when activated, acknowledges the pedestrians request to cross the street.

<u>Signage</u>. A sign shall be located immediately above the pedestrian pushbutton and parallel to the crosswalk controlled by the pushbutton. The sign shall conform to one of the following standard MUTCD designs: R10-3, R10-3a, R10-3e, R10-3i, R10-4, and R10-4a.

<u>Tactile Arrow</u>. A tactile arrow, pointing in the direction of travel controlled by a pushbutton, shall be provided on the pushbutton.

<u>Vibrotactile Feature</u>. The pushbutton shall pulse when depressed and shall vibrate continuously throughout the WALK interval.

Method of Measurement. This work will be measured for payment as each, per pushbutton.

<u>Basis of Payment</u>. This work will be paid for at the contract unit price per each for ACCESSIBLE PEDESTRIAN SIGNALS.

80099

AGGREGATE SUBGRADE IMPROVEMENT (BDE)

Effective: April 1, 2012 Revised: April 1, 2022

Add the following Section to the Standard Specifications:

"SECTION 303. AGGREGATE SUBGRADE IMPROVEMENT

303.01 Description. This work shall consist of constructing an aggregate subgrade improvement (ASI).

303.02 Materials. Materials shall be according to the following.

Item	Article/Section
(a) Coarse Aggregate	1004.07
(b) Reclaimed Asphalt Pavement (RAP)	1031.09

- **303.03 Equipment.** The vibratory roller shall be according to Article 1101.01, or as approved by the Engineer. Vibratory machines, such as tampers, shall be used in areas where rollers do not fit.
- **303.04 Soil Preparation.** The minimum immediate bearing value (IBV) of the soil below the improved subgrade shall be according to the Department's "Subgrade Stability Manual" for the aggregate thickness specified.
- **303.05 Placing and Compacting.** The maximum nominal lift thickness of aggregate gradations CA 2, CA 6, and CA 10 when compacted shall be 9 in. (225 mm). The maximum nominal lift thickness of aggregate gradations CS 1, CS 2, and RR 1 when compacted shall be 24 in. (600 mm).

The top surface of the aggregate subgrade improvement shall consist of a layer of capping aggregate gradations CA 6 or CA 10 that is 3 in. (75 mm) thick after compaction. Capping aggregate will not be required when aggregate subgrade improvement is used as a cubic yard pay item for undercut applications.

Each lift of aggregate shall be compacted to the satisfaction of the Engineer. If the moisture content of the material is such that compaction cannot be obtained, sufficient water shall be added so that satisfactory compaction can be obtained.

303.06 Finishing and Maintenance. The aggregate subgrade improvement shall be finished to the lines, grades, and cross sections shown on the plans, or as directed by the Engineer. The aggregate subgrade improvement shall be maintained in a smooth and compacted condition.

303.07 Method of Measurement. This work will be measured for payment according to Article 311.08.

303.08 Basis of Payment. This work will be paid for at the contract unit price per cubic yard (cubic meter) or ton (metric ton) for AGGREGATE SUBGRADE IMPROVEMENT or at the contract unit price per square yard (square meter) for AGGREGATE SUBGRADE IMPROVEMENT, of the thickness specified."

Add the following to Section 1004 of the Standard Specifications:

"1004.07 Coarse Aggregate for Aggregate Subgrade Improvement (ASI). The aggregate shall be according to Article 1004.01 and the following.

- (a) Description. The coarse aggregate shall be crushed gravel, crushed stone, or crushed concrete. In applications where greater than 24 in. (600 mm) of ASI material is required, gravel may be used below the top 12 in (300 mm) of ASI.
- (b) Quality. The coarse aggregate shall consist of sound durable particles reasonably free of deleterious materials.
- (c) Gradation.
 - (1) The coarse aggregate gradation for total ASI thickness less than or equal to 12 in. (300 mm) shall be CA 2, CA 6, CA 10, or CS 1.

The coarse aggregate gradation for total ASI thickness greater than 12 in. (300 mm) shall be CS 1 or CS 2 as shown below or RR 1 according to Article 1005.01(c).

	COA	COARSE AGGREGATE SUBGRADE GRADATIONS				
Grad No.	Sieve Size and Percent Passing					
Giau No.	8" 6" 4" 2" #4					
CS 1	100	97 ± 3	90 ± 10	45 ± 25	20 ± 20	
CS 2		100	80 ± 10	25 ± 15		

	COARSE AGGREGATE SUBGRADE GRADATIONS (Metric)					
Grad No.		Sieve Size and Percent Passing				
Grad No.	200 mm	150 mm	100 mm	50 mm	4.75 mm	
CS 1	100	97 ± 3	90 ± 10	45 ± 25	20 ± 20	
CS 2		100	80 ± 10	25 ± 15		

(2) Capping aggregate shall be gradation CA 6 or CA 10."

Add the following to Article 1031.09 of the Standard Specifications:

"(b) RAP in Aggregate Subgrade Improvement (ASI). RAP in ASI shall be according to Articles 1031.01(a), 1031.02(a), 1031.06(a)(1), and 1031.06(a)(2), and the following.

- (1) The testing requirements of Article 1031.03 shall not apply.
- (2) Crushed RAP used for the lower lift may be mechanically blended with aggregate gradations CS 1, CS 2, and RR 1 but it shall be no greater than 40 percent of the total product volume. RAP agglomerations shall be no greater than 4 in. (100 mm).
- (3) For capping aggregate, well graded RAP having 100 percent passing the 1 1/2 in. (38 mm) sieve may be used when aggregate gradations CS 1, CS 2, CA 2, or RR 1 are used in the lower lift. FRAP will not be permitted as capping material.

Blending shall be through calibrated interlocked feeders or a calibrated blending plant such that the prescribed blending percentage is maintained throughout the blending process. The calibration shall have an accuracy of \pm 2.0 percent of the actual quantity of material delivered."

80274

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

CONSTRUCTION AIR QUALITY – DIESEL RETROFIT (BDE)

Effective: June 1, 2010 Revised: November 1, 2014

The reduction of emissions of particulate matter (PM) for off-road equipment shall be accomplished by installing retrofit emission control devices. The term "equipment" refers to diesel fuel powered devices rated at 50 hp and above, to be used on the jobsite in excess of seven calendar days over the course of the construction period on the jobsite (including rental equipment).

Contractor and subcontractor diesel powered off-road equipment assigned to the contract shall be retrofitted using the phased in approach shown below. Equipment that is of a model year older than the year given for that equipment's respective horsepower range shall be retrofitted:

Effective Dates	Horsepower Range	Model Year
June 1, 2010 1/	600-749	2002
	750 and up	2006
June 1, 2011 ^{2/}	100-299	2003
	300-599	2001
	600-749	2002
	750 and up	2006
June 1, 2012 ^{2/}	50-99	2004
	100-299	2003
	300-599	2001
	600-749	2002
	750 and up	2006

^{1/} Effective dates apply to Contractor diesel powered off-road equipment assigned to the contract.

The retrofit emission control devices shall achieve a minimum PM emission reduction of 50 percent and shall be:

- a) Included on the U.S. Environmental Protection Agency (USEPA) Verified Retrofit Technology List (http://www.epa.gov/cleandiesel/verification/verif-list.htm), or verified by the California Air Resources Board (CARB) (http://www.arb.ca.gov/diesel/verdev/vt/cvt.htm); or
- b) Retrofitted with a non-verified diesel retrofit emission control device if verified retrofit emission control devices are not available for equipment proposed to be used on the project, and if the Contractor has obtained a performance certification from the retrofit

^{2/} Effective dates apply to Contractor and subcontractor diesel powered off-road equipment assigned to the contract.

device manufacturer that the emission control device provides a minimum PM emission reduction of 50 percent.

Note: Large cranes (Crawler mounted cranes) which are responsible for critical lift operations are exempt from installing retrofit emission control devices if such devices adversely affect equipment operation.

Diesel powered off-road equipment with engine ratings of 50 hp and above, which are unable to be retrofitted with verified emission control devices or if performance certifications are not available which will achieve a minimum 50 percent PM reduction, may be granted a waiver by the Department if documentation is provided showing good faith efforts were made by the Contractor to retrofit the equipment.

Construction shall not proceed until the Contractor submits a certified list of the diesel powered off-road equipment that will be used, and as necessary, retrofitted with emission control devices. The list(s) shall include (1) the equipment number, type, make, Contractor/rental company name; and (2) the emission control devices make, model, USEPA or CARB verification number, or performance certification from the retrofit device manufacturer. Equipment reported as fitted with emissions control devices shall be made available to the Engineer for visual inspection of the device installation, prior to being used on the jobsite.

The Contractor shall submit an updated list of retrofitted off-road construction equipment as retrofitted equipment changes or comes on to the jobsite. The addition or deletion of any diesel powered equipment shall be included on the updated list.

If any diesel powered off-road equipment is found to be in non-compliance with any portion of this special provision, the Engineer will issue the Contractor a diesel retrofit deficiency deduction.

Any costs associated with retrofitting any diesel powered off-road equipment with emission control devices 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. The Contractor's compliance with this notice and any associated regulations shall not be grounds for a claim.

Diesel Retrofit Deficiency Deduction

When the Engineer determines that a diesel retrofit deficiency exists, a daily monetary deduction will be imposed for each calendar day or fraction thereof the deficiency continues to exist. The calendar day(s) will begin when the time period for correction is exceeded and end with the Engineer's written acceptance of the correction. The daily monetary deduction will be \$1,000.00 for each deficiency identified.

The deficiency will be based on lack of diesel retrofit emissions control.

If a Contractor accumulates three diesel retrofit deficiency deductions for the same piece of equipment in a contract period, the Contractor will be shutdown until the deficiency is corrected.

Such a shutdown will not be grounds for any extension of the contract time, waiver of penalties, or be grounds for any claim.

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				-	Гуре 2	2				Гуре 3	}				Type 4	4	
Nominal	Fill Height: 3' and less,					Fill Height: Greater than 3',					Fill Height: Greater than 10',				10',	Fill Height: Greater than 15',				
Diameter		with 1' min					not ex	ceedi	ng 10'			not ex	ceedir	ng 15'			not e	xceed	ng 20'	
(in.)	PVC	CPVC	PE	CPE	CPP	PVC	CPVC	PE	CPE	CPP	PVC	CPVC	PE	CPE	CPP	PVC	CPVC	PE	CPE	CPP
10	Х	QPL	Х	QPL	NA	Х	QPL	Χ	QPL	NA	Χ	QPL	Χ	QPL	NA	Х	QPL	Х	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	Χ	QPL	NA	QPL	QPL
18	Х	QPL	Х	QPL	QPL	Χ	QPL	Χ	QPL	QPL	Χ	QPL	Χ	QPL	QPL	Χ	QPL	Х	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	Χ	QPL	QPL	Χ	QPL	Χ	QPL	QPL	Χ	QPL	Х	NA	QPL
27	Х	NA	NA	NA	NA	Χ	NA	NA	NA	NA	Х	NA	NA	NA	NA	Χ	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	Χ	QPL	Χ	QPL	QPL	Х	QPL	Χ	QPL	QPL	Χ	QPL	Х	NA	QPL
42	Х	NA	Х	QPL	QPL	Χ	NA	Χ	QPL	QPL	Х	NA	Χ	NA	QPL	Χ	NA	Х	NA	NA
48	Χ	NA	Χ	QPL	QPL	Χ	NA	Χ	QPL	QPL	Χ	NA	Χ	NA	QPL	Χ	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

			Туре 1					Гуре 2	2				Гуре 3					Type 4	ļ	
Nominal Diameter		ll Height with 0.3				Fill Height: Greater than 1 m, not exceeding 3 m					Fill Height: Greater than 3 m, not exceeding 4.5 m					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	Х	QPL	NA	Х	QPL	Χ	QPL	NA	Х	QPL	Х	QPL	NA	Х	QPL	Χ	QPL	NA
300	Χ	QPL	Χ	QPL	QPL	Χ	QPL	Χ	QPL	QPL	Х	QPL	Χ	QPL	QPL	Χ	QPL	Χ	QPL	QPL
375	Χ	QPL	NA	QPL	QPL	Х	QPL	NA	QPL	QPL	Х	QPL	NA	QPL	QPL	Χ	QPL	NA	QPL	QPL
450	Χ	QPL	Х	QPL	QPL	Х	QPL	Χ	QPL	QPL	Х	QPL	Х	QPL	QPL	Х	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	Х	QPL	QPL	Х	QPL	Χ	QPL	QPL	Х	QPL	Х	QPL	QPL	Х	QPL	Χ	NA	QPL
675	Х	NA	NA	NA	NA	Х	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	Х	QPL	Х	QPL	QPL	Х	QPL	Χ	QPL	QPL	Х	QPL	Х	QPL	QPL	Х	QPL	Χ	NA	QPL
1050	Х	NA	Х	QPL	QPL	Х	NA	Χ	QPL	QPL	Х	NA	Х	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 Polyethylene Pipe

Corrugated Polyethylene Pipe with a Smooth Interior Corrugated Polypropylene Pipe with a Smooth Interior CPE 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 5 Type 6 Type 7 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 **PVC** PVC **CPVC** PΕ **CPVC** PΕ 10 Χ QPL Χ QPL NA Χ QPL Χ Χ QPL Χ QPL 12 QPL Χ QPL Χ QPL Χ Χ QPL Χ Χ 15 Х NA QPL Χ NA Х NA QPL NA QPL QPL 18 Χ QPL Χ NA NA Χ QPL Χ Χ QPL Χ Χ Х QPL Х 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 Χ NA Χ NA NA Χ NA Χ Χ NA Χ Χ Χ 48 Χ NA NA NA Χ NA 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>		not	exceeding 9	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	X	Х	QPL	Х	
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	X	Х	QPL	Х	
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

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 Fill Height: 3' and less, Fill Height: Greater than 3', Diameter with 1' min. not exceeding 10' in. CSP **RCCP ESCP** PVC **CPVC** PΕ CPE CPP **RCCP** PVC CPE CPP **CSP ESCP** CPVC PΕ NA Χ QPL Χ QPL *X QPL Χ QPL 10 3 Χ NA NA 1 Х NA 12 Χ QPL Χ QPL QPL *X Χ QPL Χ QPL QPL IV NA Χ Ш 1 15 IV NA NA Χ QPL NA QPL QPL Ш 1 *X Х QPL NA QPL QPL 18 Χ 2 Χ Х QPL IV NA NA QPL Х QPL QPL Ш QPL Х QPL 21 Ш NA NA Χ QPL NA QPL NA Ш 2 Χ Х QPL NA QPL NA Χ QPL QPL QPL 2 Χ Χ QPL QPL QPL 24 Ш NA NA Χ Ш Χ 27 NA Χ NA Ш 3 Χ Χ NA NA NA NA NA NA NA NA 30 Х QPL Х QPL QPL Х Х QPL QPL QPL IV NA NA Ш 3 Х 33 NA NA NA NA Ш Χ NA NA Ш NA NA NA NA NA NA NA 36 Χ QPL Х Χ QPL Χ QPL QPL Ш NA NA QPL QPL Ш NA Χ

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STORM SEWERS

NA NA RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe

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QPL

QPL

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NA

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

ESCP Extra Strength Clay Pipe PVC Polyvinyl Chloride Pipe

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NA

CPVC Corrugated Polyvinyl Chloride Pipe with a Smooth Interior

PΕ Polyethylene Pipe

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

Permitted Χ

42

48

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72

78

84

90

96

102

108

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

NA Not Acceptable

May also use Standard Strength Clay Pipe

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 Fill Height: 1 m and less, Fill Height: Greater than 1 m, Diameter with 300 mm min. not exceeding 3 m mm PVC **RCCP CSP ESCP** CPVC CPE CPP **RCCP PVC** CPE CPP PΕ **CSP ESCP** CPVC PΕ 250 NA 3 Χ QPL Χ QPL NA *X QPL Χ QPL NA Χ NA 1 Х 300 Χ Χ QPL Χ QPL QPL *X Χ QPL Χ QPL QPL IV NA Ш 1 375 IV NA NA Χ QPL NA QPL QPL Ш 1 *X Х QPL NA QPL QPL NA Χ 2 Χ Х QPL QPL 450 IV NA QPL Χ QPL QPL Ш QPL Х QPL 525 Ш NA NA Χ QPL NA QPL NA Ш 2 Χ Х QPL NA NA Χ QPL QPL QPL 2 Χ Χ QPL QPL QPL 600 Ш NA NA Χ Ш Χ 675 NA Χ NA Ш 3 Χ Χ NA NA NA NA NA NA NA NA 750 Х QPL Х QPL QPL Х Х QPL QPL QPL IV NA NA Ш 3 Х 825 Ш NA NA NA NA Ш NA Χ NA NA NA NA NA NA NA NA Χ QPL Х QPL Χ QPL Χ QPL QPL 900 Ш NA NA QPL Ш NA Χ QPL 1050 Χ Χ NA Χ QPL QPL Χ Х NA Χ QPL Ш NA Ш NA 1200 Х Χ QPL QPL Х Х Χ QPL QPL Ш NA Χ NA Ш NA NA

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STORM SEWERS (metric)

NA NA RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe

NA

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

NA

QPL

NA

NA

NA

NA

NA

NA

NA

NA

ESCP Extra Strength Clay Pipe PVC Polyvinyl Chloride Pipe

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CPVC Corrugated Polyvinyl Chloride Pipe with a Smooth Interior

PΕ Polyethylene Pipe

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

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

Not Acceptable NA

May also use Standard Strength Clay Pipe

NA

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 CPE CPP PΕ **CSP ESCP CPVC** PΕ NA 2 Χ QPL Χ QPL 3 Χ QPL Χ QPL 10 Χ NA NA Х NA 12 2 Χ QPL Χ QPL QPL Χ QPL Χ QPL QPL Χ IV NA NA Ш 15 Ш 3 Χ Χ QPL NA QPL QPL IV NA NA Χ QPL NA QPL QPL 18 Χ Χ Х QPL Ш NA QPL Χ QPL QPL IV NA NA QPL Х QPL 21 Ш NA NA Χ QPL NA QPL NA IV NA NA Х QPL NA NA NA Χ QPL QPL QPL Χ QPL QPL 24 Ш NA NA Χ IV NA NA Χ NA 27 NA Χ NA IV NA X NA NA NA NA NA NA NA NA 30 QPL QPL Х QPL NA NA Х Χ QPL IV NA NA QPL Х NA Ш 33 NA NA NA IV NA NA NA Ш NA NA NA NA NA NA NA NA 36 Χ QPL QPL Χ QPL NA NA Χ QPL QPL IV NA NA Χ NA 42 NA Χ Χ QPL IV Х NA Χ NA Ш NA NA 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 IV NA NA NA NA NA NA NA NA 60 QPL NA Ш NA NA NA NA NA NA IV NA NA NA NA NA NA 66 NA NA NA NA NA NA NA IV NA NA NA NA NA NA NA 72 NA IV Ш NA 78 NA NA NA NA NA NA NA Ш NA NA NA NA IV NA NA NA 84 NA Ш NA NA NA NA NA NA IV NA NA NA NA NA NA NA 90 NA NA NA NA NA NA NA 1680 NA NA NA NA NA NA NA Ш 96 Ш NA NA NA NA NA NA NA 1690 NA NA NA NA NA NA NA 102 1700 Ш NA NA

NA

NA

NA

NA

108 NA NA NA NA 1710 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.)

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

ESCP Extra Strength Clay Pipe

Polyvinyl Chloride Pipe PVC

1360

NA

CPVC Corrugated Polyvinyl Chloride Pipe with a Smooth Interior

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

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 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** CPE CPP PΕ **CSP ESCP CPVC** PΕ 250 NA 2 QPL Χ QPL 3 Χ QPL Χ QPL Χ Χ NA NA Х NA 300 2 Χ Χ QPL Χ QPL QPL Χ QPL Χ QPL QPL IV NA 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 525 Ш NA NA Χ QPL NA QPL NA IV NA NA Х QPL NA NA NA Χ QPL QPL QPL Χ QPL QPL 600 Ш NA NA Χ IV NA NA Χ NA 675 NA Χ NA IV NA X NA NA NA NA NA NA NA NA NA Х QPL QPL QPL Х QPL 750 Ш NA NA Χ 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 Χ QPL 900 NA NA Χ QPL IV NA NA Χ NA 1050 NA Χ NA Χ QPL IV Х NA Χ NA Ш NA NA NA NA NA 1200 Χ QPL Х Χ Ш NA NA Χ NA NA IV NA NA NA NA NA 1350 Ш NA NA NA NA NA NA NA IV NA NA NA NA NA NA NA 1500 NA NA QPL IV NA NA Ш NA NA NA NA NA NA NA NA NA 1650 NA NA NA NA NA NA NA IV NA NA NA NA NA NA NA 1800 NA NA IV NA NA Ш NA 1950 NA Ш NA NA IV NA NA 2100 NA IV Ш NA 2250 NA NA NA NA NA NA NA 80 NA NA NA NA NA NA NA Ш 2400 Ш NA NA NA NA NA NA NA 80 NA NA NA NA NA NA NA 2550 NA 80 Ш NA NA

NA

NA

NA

NA

NA

NA

NA NA 80 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.)

NA

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

ESCP Extra Strength Clay Pipe

Polyvinyl Chloride Pipe PVC

70

NA

CPVC Corrugated Polyvinyl Chloride Pipe with a Smooth Interior

NA

NA

PΕ Polyethylene Pipe

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

Permitted Χ

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

			Тур	e 5				Тур	pe 6			Тур	e 7	
Nominal Diameter in.		Fill H	leight: Gr not exce		n 20',		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	Χ	QPL	NA	NA	Х	QPL	Χ	NA	Χ	QPL	Χ
12	IV	Χ	QPL	Χ	QPL	QPL	V	Х	QPL	Χ	V	Χ	QPL	X
15	IV	Χ	QPL	NA	NA	QPL	V	Χ	QPL	NA	V	Χ	QPL	NA
18	IV	Χ	QPL	Χ	NA	NA	V	Х	QPL	Χ	V	Χ	QPL	Χ
21	IV	Χ	QPL	NA	NA	NA	V	Х	QPL	NA	V	Χ	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	X	NA	NA	V	Χ	NA	NA
30	IV	Χ	QPL	Χ	NA	QPL	V	Х	QPL	Χ	V	Χ	QPL	Χ
33	IV	NA	NA	NA	NA	NA	V	NA	NA	NA	V	NA	NA	NA
36	IV	Χ	QPL	X	NA	NA	V	Х	QPL	Χ	V	Χ	QPL	Χ
42	IV	Χ	NA	Χ	NA	NA	V	Х	NA	Χ	V	Χ	NA	Χ
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

1			Тур	e 5				Тур	pe 6			Тур	e 7			
Nominal Diameter			eight: Gre				Fill He		ater than a	7.5 m,			eater than			
mm			ioi excee	ullig 7.5 il	11			HOL EXCE	ealing 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	Χ	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."

80434

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 18.00 % 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 to meet this goal of DBE participation 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.

<u>CALCULATING DBE PARTICIPATION</u>. 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.

80029

PERFORMANCE GRADED ASPHALT BINDER (BDE)

Effective: January 1, 2023

Revise Article 1032.05 of the Standard Specifications to read:

"1032.05 Performance Graded Asphalt Binder. These materials will be accepted according to the Bureau of Materials Policy Memorandum, "Performance Graded Asphalt Binder Qualification Procedure." The Department will maintain a qualified producer list. These materials shall be free from water and shall not foam when heated to any temperature below the actual flash point. Air blown asphalt, recycle engine oil bottoms (ReOB), and polyphosphoric acid (PPA) modification shall not be used.

When requested, producers shall provide the Engineer with viscosity/temperature relationships for the performance graded asphalt binders delivered and incorporated in the work.

(a) Performance Graded (PG) Asphalt Binder. The asphalt binder shall meet the requirements of AASHTO M 320, Table 1 "Standard Specification for Performance Graded Asphalt Binder" for the grade shown on the plans and the following.

Test	Parameter
Small Strain Parameter (AASHTO PP 113) BBR, ΔTc, 40 hrs PAV (40 hrs continuous or 2 PAV at 20 hrs)	-5 °C min.

(b) Modified Performance Graded (PG) Asphalt Binder. The asphalt binder shall meet the requirements of AASHTO M 320, Table 1 "Standard Specification for Performance Graded Asphalt Binder" for the grade shown on the plans.

Asphalt binder modification shall be performed at the source, as defined in the Bureau of Materials Policy Memorandum, "Performance Graded Asphalt Binder Qualification Procedure."

Modified asphalt binder shall be safe to handle at asphalt binder production and storage temperatures or HMA construction temperatures. Safety Data Sheets (SDS) shall be provided for all asphalt modifiers.

(1) Polymer Modification (SB/SBS or SBR). Elastomers shall be added to the base asphalt binder to achieve the specified performance grade and shall be either a styrene-butadiene diblock, triblock copolymer without oil extension, or a styrenebutadiene rubber. The polymer modified asphalt binder shall be smooth, homogeneous, and be according to the requirements shown in Table 1 or 2 for the grade shown on the plans.

Table 1 - Requirements for Styrene-Butadiene Copolymer (SB/SBS) Modified Asphalt Binders									
Test	Asphalt Grade SB/SBS PG 64-28 SB/SBS PG 70-22	Asphalt Grade SB/SBS PG 64-34 SB/SBS PG 70-28 SB/SBS PG 76-22 SB/SBS PG 76-28							
Separation of Polymer ITP, "Separation of Polymer from Asphalt Binder" Difference in °F (°C) of the softening point between top and bottom portions	4 (2) max.	4 (2) max.							
TESTS ON RESIDUE FROM ROLLING THIN FILM OVEN TEST (AASHTO T 240)									
Elastic Recovery ASTM D 6084, Procedure A, 77 °F (25 °C), 100 mm elongation, %	60 min.	70 min.							

Table 2 - Requirements for Styrene-Butadiene Rubber (SBR) Modified Asphalt Binders										
Test	Asphalt Grade SBR PG 64-28 SBR PG 70-22	Asphalt Grade SB/SBS PG 64-34 SB/SBS PG 70-28 SBR PG 76-22 SBR PG 76-28								
Separation of Polymer										
ITP, "Separation of Polymer from Asphalt										
Binder"										
Difference in °F (°C) of the softening										
point between top and bottom portions	4 (2) max.	4 (2) max.								
Toughness										
ASTM D 5801, 77 °F (25 °C),	440 (40 =)	440 (40 =)								
20 in./min. (500 mm/min.), inlbs (N-m)	110 (12.5) min.	110 (12.5) min.								
Tenacity										
ASTM D 5801, 77 °F (25 °C),	()	()								
20 in./min. (500 mm/min.), inlbs (N-m)	75 (8.5) min.	75 (8.5) min.								
TESTS ON RESIDUE FROM ROLLING THI	N FILM OVEN TES	T (AASHTO T 240)								
Elastic Recovery										
ASTM D 6084, Procedure A,										
77 °F (25 °C), 100 mm elongation, %	40 min.	50 min.								

(2) Ground Tire Rubber (GTR) Modification. GTR modification is the addition of recycled ground tire rubber to liquid asphalt binder to achieve the specified performance grade. GTR shall be produced from processing automobile and/or truck tires by the ambient

grinding method or micronizing through a cryogenic process. GTR shall not exceed 1/16 in. (2 mm) in any dimension and shall not contain free metal particles, moisture that would cause foaming of the asphalt, or other foreign materials. A mineral powder (such as talc) meeting the requirements of AASHTO M 17 may be added, up to a maximum of four percent by weight of GTR to reduce sticking and caking of the GTR particles. When tested in accordance with Illinois Modified AASHTO T 27 "Standard Method of Test for Sieve Analysis of Fine and Coarse Aggregates" or AASHTO PP 74 "Standard Practice for Determination of Size and Shape of Glass Beads Used in Traffic Markings by Means of Computerized Optical Method", a 50 g sample of the GTR shall conform to the following gradation requirements.

Sieve Size	Percent Passing
No. 16 (1.18 mm)	100
No. 30 (600 µm)	95 ± 5
No. 50 (300 µm)	> 20

GTR modified asphalt binder shall be tested for rotational viscosity according to AASHTO T 316 using spindle S27. GTR modified asphalt binder shall be tested for original dynamic shear and RTFO dynamic shear according to AASHTO T 315 using a gap of 2 mm.

The GTR modified asphalt binder shall meet the requirements of Table 3.

Table 3 - Requirements for Ground Tire Rubber (GTR) Modified Asphalt Binders			
Test	Asphalt Grade GTR PG 64-28 GTR PG 70-22	Asphalt Grade GTR PG 76-22 GTR PG 76-28 GTR PG 70-28	
TESTS ON RESIDUE FROM ROLLING THIN FILM OVEN TEST (AASHTO T 240)			
Elastic Recovery ASTM D 6084, Procedure A, 77 °F (25 °C), 100 mm elongation, %	60 min.	70 min.	

(3) Softener Modification (SM). Softener modification is the addition of organic compounds, such as engineered flux, bio-oil blends, modified vegetable oils, glycol amines, and fatty acid derivatives, to the base asphalt binder to achieve the specified performance grade. Softeners shall be dissolved, dispersed, or reacted in the asphalt binder to enhance its performance and shall remain compatible with the asphalt binder with no separation. Softeners shall not be added to modified PG asphalt binder as defined in Articles 1032.05(b)(1) or 1032.05(b)(2).

An Attenuated Total Reflectance-Fourier Transform Infrared spectrum (ATR-FTIR) shall be collected for both the softening compound as well as the softener modified

asphalt binder at the dose intended for qualification. The ATR-FTIR spectra shall be collected on unaged softener modified binder, 20-hour Pressurized Aging Vessel (PAV) aged softener modified binder, and 40-hour PAV aged softener modified binder. The ATR-FTIR shall be collected in accordance with Illinois Test Procedure 601. The electronic files spectral files (in one of the following extensions or equivalent: *.SPA, *.SPG, *.IRD, *.IFG, *.CSV, *.SP, *.IRS, *.GAML, *.[0-9], *.IGM, *.ABS, *.DRT, *.SBM, *.RAS) shall be submitted to the Central Bureau of Materials.

Softener modified asphalt binders shall meet the requirements in Table 4.

Table 4 - Requirements for Softener Modified Asphalt Binders		
	Asphalt Grade	
Test	SM PG 46-28 SM PG 46-34	1
	SM PG 52-28 SM PG 52-34	1
	SM PG 58-22 SM PG 58-28	3
	SM PG 64-22	
Small Strain Parameter (AASHTO PP 113)		
BBR, ΔTc, 40 hrs PAV (40 hrs	-5°C min.	
continuous or 2 PAV at 20 hrs)		
Large Strain Parameter (Illinois Modified		
AASHTO T 391) DSR/LAS Fatigue	≥ 54 %	
Property, Δ G* peak τ, 40 hrs PAV	2 54 %	
(40 hrs continuous or 2 PAV at 20 hrs)		

The following grades may be specified as tack coats.

Asphalt Grade	Use
PG 58-22, PG 58-28, PG 64-22	Tack Coat"

Revise Article 1031.06(c)(1) and 1031.06(c)(2) of the Standard Specifications to read:

"(1) RAP/RAS. When RAP is used alone or RAP is used in conjunction with RAS, the percentage of virgin ABR shall not exceed the amounts listed in the following table.

HMA Mixtures - RAP/RAS Maximum ABR % 1/2/			
Ndesign	Binder	Surface	Polymer Modified Binder or Surface ^{3/}
30	30	30	10
50	25	15	10
70	15	10	10
90	10	10	10

1/ For Low ESAL HMA shoulder and stabilized subbase, the RAP/RAS ABR shall not exceed 50 percent of the mixture.

- 2/ When RAP/RAS ABR exceeds 20 percent, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent ABR would require a virgin asphalt binder grade of PG 64-22 to be reduced to a PG 58-28).
- 3/ The maximum ABR percentages for ground tire rubber (GTR) modified mixes shall be equivalent to the percentages specified for SBS/SBR polymer modified mixes.
- (2) FRAP/RAS. When FRAP is used alone or FRAP is used in conjunction with RAS, the percentage of virgin asphalt binder replacement shall not exceed the amounts listed in the following table.

HMA Mixtures - FRAP/RAS Maximum ABR % 1/2/			
Ndesign	Binder	Surface	Polymer Modified Binder or Surface ^{3/}
30	55	45	15
50	45	40	15
70	45	35	15
90	45	35	15
SMA			25
IL-4.75			35

- 1/ For Low ESAL HMA shoulder and stabilized subbase, the FRAP/RAS ABR shall not exceed 50 percent of the mixture.
- 2/ When FRAP/RAS ABR exceeds 20 percent for all mixes, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent ABR would require a virgin asphalt binder grade of PG 64-22 to be reduced to a PG 58-28).
- 3/ The maximum ABR percentages for GTR modified mixes shall be equivalent to the percentages specified for SBS/SBR polymer modified mixes."

Add the following to the end of Note 2 of Article 1030.03 of the Standard Specifications.

"A dedicated storage tank for the ground tire rubber (GTR) modified asphalt binder shall be provided. This tank shall be capable of providing continuous mechanical mixing throughout and/or recirculation of the asphalt binder to provide a uniform mixture. The tank shall be heated and capable of maintaining the temperature of the asphalt binder at 300 °F to 350 °F (149 °C to 177 °C). The asphalt binder metering systems of dryer drum plants shall be calibrated with the actual GTR modified asphalt binder material with an accuracy of ± 0.40 percent."

80441

SEEDING (BDE)

Effective: November 1, 2022

Revise Article 250.07 of the Standard Specifications to read:

"250.07 Seeding Mixtures. The classes of seeding mixtures and combinations of mixtures will be designated in the plans.

When an area is to be seeded with two or more seeding classes, those mixtures shall be applied separately on the designated area within a seven day period. Seeding shall occur prior to placement of mulch cover. A Class 7 mixture can be applied at any time prior to applying any seeding class or added to them and applied at the same time.

TABLE 1 - SEEDING MIXTURES			
Class	- Туре	Seeds	lb/acre (kg/hectare)
1	Lawn Mixture 1/	Kentucky Bluegrass Perennial Ryegrass Festuca rubra ssp. rubra (Creeping Red Fescue)	100 (110) 60 (70) 40 (50)
1A	Salt Tolerant Lawn Mixture 1/	Kentucky Bluegrass Perennial Ryegrass Festuca rubra ssp. rubra (Creeping Red Fescue) Festuca brevipilla (Hard Fescue) Puccinellia distans (Fults Saltgrass or Salty Alkaligrass)	60 (70) 20 (20) 20 (20) 20 (20) 60 (70)
1B	Low Maintenance Lawn Mixture 1/	Turf-Type Fine Fescue 3/ Perennial Ryegrass Red Top Festuca rubra ssp. rubra (Creeping Red Fescue)	150 (170) 20 (20) 10 (10) 20 (20)
2	Roadside Mixture 1/	Lolium arundinaceum (Tall Fescue) Perennial Ryegrass Festuca rubra ssp. rubra (Creeping Red Fescue) Red Top	100 (110) 50 (55) 40 (50) 10 (10)
2A	Salt Tolerant Roadside Mixture 1/	Lolium arundinaceum (Tall Fescue) Perennial Ryegrass Festuca rubra ssp. rubra (Creeping Red Fescue) Festuca brevipila (Hard Fescue) Puccinellia distans (Fults Saltgrass or Salty Alkaligrass)	60 (70) 20 (20) 30 (20) 30 (20) 60 (70)
3	Northern Illinois Slope Mixture 1/	Elymus canadensis (Canada Wild Rye) 5/ Perennial Ryegrass Alsike Clover 4/ Desmanthus illinoensis (Illinois Bundleflower) 4/ 5/ Schizachyrium scoparium	5 (5) 20 (20) 5 (5) 2 (2) 12 (12)
		(Little Bluestem) 5/ Bouteloua curtipendula (Side-Oats Grama) 5/ Puccinellia distans (Fults Saltgrass or Salty Alkaligrass) Oats, Spring Slender Wheat Grass 5/ Buffalo Grass 5/ 7/	10 (10) 30 (35) 50 (55) 15 (15) 5 (5)
3A	Southern Illinois Slope Mixture 1/	Perennial Ryegrass Elymus canadensis (Canada Wild Rye) 5/ Panicum virgatum (Switchgrass) 5/	20 (20) 20 (20) 10 (10)
		Schizachyrium scoparium (Little Blue Stem) 5/ Bouteloua curtipendula (Side-Oats Grama) 5/	12 (12) 10 (10)
		Dalea candida (White Prairie Clover) 4/ 5/ Rudbeckia hirta (Black-Eyed Susan) 5/	5 (5) 5 (5)
		Oats, Spring	50 (55)

Class	s – Туре	Seeds	lb/acre (kg/hectare)
4	Native Grass 2/6/	Andropogon gerardi (Big Blue Stem) 5/	4 (4)
		Schizachyrium scoparium (Little Blue Stem) 5/	5 (5)
		Bouteloua curtipendula (Side-Oats Grama) 5/	5 (5)
		Elymus canadensis (Canada Wild Rye) 5/	1 (1)
		Panicum virgatum (Switch Grass) 5/ Sorghastrum nutans (Indian Grass) 5/	1 (1) 2 (2)
		Annual Ryegrass	25 (25)
		Oats, Spring Perennial Ryegrass	25 (25) 15 (15)
4A	Low Profile Native Grass 2/6/	Schizachyrium scoparium (Little Blue Stem) 5/	5 (5)
		Boùteloua curtipendula (Side-Oats Grama) 5/	5 (5)
		Elymus canadensis (Canada Wild Rye) 5/	1 (1)
		Sporobolus heterolepis (Prairie Dropseed) 5/	0.5 (0.5)
		Annual Ryegrass	25 (25)
		Oats, Spring Perennial Ryegrass	25 (25) 15 (15)
4B	Wetland Grass and	Annual Ryegrass	25 (25)
	Sedge Mixture 2/ 6/	Oats, Spring Wetland Grasses (species below) 5/	25 (25) 6 (6)
	Species:	ndensis (Blue Joint Grass)	<u>% By Weight</u> 12
	Carex lacustris (Lak	6	
	Carex slipata (Awl-F		6
	Carex stricta (Tusso Carex vulpinoidea (I		6 6
	Eleocharis aciculari	3	
	Eleocharis obtusa (I	3	
	Glyceria striata (Fov Juncus effusus (Cor		14 6
	Juncus tenuis (Slen	6	
	Juncus torreyi (Torre	6	
	Leersia oryzoides (F	10 3	
Scirpus acutus (Hard-Stemmed Bulrush) Scirpus atrovirens (Dark Green Rush)			3
	Bolboschoenus fluv	iatilis (River Bulrush)	3 3
		Schoenoplectus tabernaemontani (Softstem Bulrush) Spartina pectinata (Cord Grass)	
	oparima pecimala (4	

Clas	ss – Type	Seeds	lb/acre (kg/hectare)
5	Forb with Annuals Mixture 2/ 5/ 6/	Annuals Mixture (Below) Forb Mixture (Below)	1 (1) 10 (10)

Annuals Mixture - Mixture not exceeding 25 % by weight of any one species, of the following:

Coreopsis lanceolata (Sand Coreopsis) Leucanthemum maximum (Shasta Daisy) Gaillardia pulchella (Blanket Flower) Ratibida columnifera (Prairie Coneflower) Rudbeckia hirta (Black-Eyed Susan)

Forb Mixture - Mixture not exceeding 5 % by weight PLS of any one species, of the following:

Amorpha canescens (Lead Plant) 4/ Anemone cylindrica (Thimble Weed) Asclepias tuberosa (Butterfly Weed) Aster azureus (Sky Blue Aster) Symphyotrichum leave (Smooth Aster) Aster novae-angliae (New England Aster) Baptisia leucantha (White Wild Indigo) 4/ Coreopsis palmata (Prairie Coreopsis) Echinacea pallida (Pale Purple Coneflower) Eryngium yuccifolium (Rattlesnake Master) Helianthus mollis (Downy Sunflower) Heliopsis helianthoides (Ox-Eye) Liatris aspera (Rough Blazing Star) Liatris pycnostachya (Prairie Blazing Star) Monarda fistulosa (Prairie Bergamot) Parthenium integrifolium (Wild Quinine) Dalea candida (White Prairie Clover) 4/ Dalea purpurea (Purple Prairie Clover) 4/

Physostegia virginiana (False Dragonhead)
Potentilla arguta (Prairie Cinquefoil)
Ratibida pinnata (Yellow Coneflower)
Rudbeckia subtomentosa (Fragrant Coneflower)
Silphium laciniatum (Compass Plant)
Silphium terebinthinaceum (Prairie Dock)

Oligoneuron rigidum (Rigid Goldenrod)
Tradescantia ohiensis (Spiderwort)
Veronicastrum virginicum (Culver's Root)

Class	– Туре	Seeds	lb/acre (kg/hectare)
5A	Large Flower Native Forb Mixture 2/ 5/ 6/	Forb Mixture (see below)	5 (5)
	Species:		% By Weight
	Aster novae-angliae	(New England Aster)	5
		ale Purple Coneflower)	10
	Helianthus mollis (Do		10
	Heliopsis helianthoid	10 10	
	Liatris pycnostachya Ratibida pinnata (Ye	5	
	Rudbeckia hirta (Blad		10
	Silphium laciniatum ((Compass Plant)	10
	Silphium terebinthina		20
	Oligoneuron rigidum	· -	10
5B	Wetland Forb 2/ 5/ 6/	Forb Mixture (see below)	2 (2)
	Species:	.5.	% By Weight
	Acorus calamus (Sw		3
	Angelica atropurpure Asclepias incarnata (6 2
	Aster puniceus (Purp		10
	Bidens cernua (Begg		7
		um (Spotted Joe Pye Weed)	7
	Eupatorium perfoliati		7
	Helenium autumnale Iris virginica shrevei	(Autumn Sneeze Weed)	2
	Lobelia cardinalis (C		2 5 5
	Lobelia siphilitica (Gr		5
	<i>Lythrum alatum</i> (Win		2
		na (False Dragonhead)	5
		nica (Pennsylvania Smartweed)	10
		a (Curlytop Knotweed) inianum (Mountain Mint)	10 5
		(Cut-leaf Coneflower)	5
	Oligoneuron riddellii		2
	Sparganium eurycar		5
6	Conservation Mixture 2/ 6/	Schizachyrium scoparium (Little Blue Stem) 5/	5 (5)
		Elymus canadensis (Canada Wild Rye) 5/	2 (2)
		Buffalo Grass 5/ 7/	5 (5)
		Vernal Alfalfa 4/	15 (15)
		Oats, Spring	48 (55)
6A	Salt Tolerant Conservation	Schizachyrium scoparium (Little Blue Stem) 5/	5 (5)
	Mixture 2/6/	Elymus canadensis (Canada Wild Rye) 5/	2 (2)
		Buffalo Grass 5/ 7/	5 (5)
		Vernal Alfalfa 4/	15 (15)
		Oats, Spring	48 (55)
	Tamanauam, Tood	Puccinellia distans (Fults Saltgrass or Salty Alkaligrass)	20 (20)
7	Temporary Turf Cover Mixture	Perennial Ryegrass Oats, Spring	50 (55) 64 (70)
	OUVEL IVIIALUIE	σαιο, οριτί <u>α</u>	U 4 (70)

Notes:

- 1/ Seeding shall be performed when the ambient temperature has been between 45 °F (7 °C) and 80 °F (27 °C) for a minimum of seven (7) consecutive days and is forecasted to be the same for the next five (5) days according to the National Weather Service.
- 2/ Seeding shall be performed in late fall through spring beginning when the ambient temperature has been below 45 °F (7 °C) for a minimum of seven (7) consecutive days and ending when the ambient temperature exceeds 80 °F (27 °C) according to the National Weather Service.
- 3/ Specific variety as shown in the plans or approved by the Engineer.
- 4/ Inoculation required.
- 5/ Pure Live Seed (PLS) shall be used.
- 6/ Fertilizer shall not be used.
- 7/ Seed shall be primed with KNO₃ to break dormancy and dyed to indicate such.

Seeding will be inspected after a period of establishment. The period of establishment shall be six (6) months minimum, but not to exceed nine (9) months. After the period of establishment, areas not exhibiting 75 percent uniform growth shall be interseeded or reseeded, as determined by the Engineer, at no additional cost to the Department."

SOURCE OF SUPPLY AND QUALITY REQUIREMENTS (BDE)

Effective: January 2, 2023

Add the following to Article 106.01 of the Standard Specifications:

"The final manufacturing process for construction materials and the immediately preceding manufacturing stage for construction materials shall occur within the United States. Construction materials shall include an article, material, or supply that is or consists primarily of the following.

- (a) Non-ferrous metals;
- (b) Plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables);
- (c) Glass (including optic glass);
- (d) Lumber;
- (e) Drywall.

Items consisting of two or more of the listed construction materials that have been combined through a manufacturing process, and items including at least one of the listed materials combined with a material that is not listed through a manufacturing process shall be exempt."

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%"

SUBMISSION OF PAYROLL RECORDS (BDE)

Effective: April 1, 2021 Revised: November 1, 2022

FEDERAL AID CONTRACTS. Revise the following section of Check Sheet #1 of the Recurring

Special Provisions to read:

"STATEMENTS AND PAYROLLS

The payroll records shall include the worker's name, the worker's address, the worker's telephone number when available, the worker's social security number, the worker's classification or classifications, the worker's gross and net wages paid in each pay period, the worker's number of hours worked each day, and the worker's starting and ending times of work each day. However, any Contractor or subcontractor who remits contributions to a fringe benefit fund that is not jointly maintained and jointly governed by one or more employers and one or more labor organization must additionally submit the worker's hourly wage rate, the worker's hourly overtime wage rate, the worker's hourly fringe benefit rates, the name and address of each fringe benefit fund, the plan sponsor of each fringe benefit, if applicable, and the plan administrator of each fringe benefit, if applicable.

The Contractor and each subcontractor shall certify and submit payroll records to the Department each week from the start to the completion of their respective work, except that full social security numbers shall not be included on weekly submittals. Instead, the payrolls shall include an identification number for each employee (e.g., the last four digits of the employee's social security number). In addition, starting and ending times of work each day may be omitted from the payroll records submitted. The submittals shall be made using LCPtracker Pro software. The software is web-based and can be accessed at https://lcptracker.com/. When there has been no activity during a work week, a payroll record shall still be submitted with the appropriate option ("No Work", "Suspended", or "Complete") selected."

<u>STATE CONTRACTS</u>. Revise Item 3 of Section IV of Check Sheet #5 of the Recurring Special Provisions to read:

"3. Submission of Payroll Records. The Contractor and each subcontractor shall, no later than the 15th day of each calendar month, file a certified payroll for the immediately preceding month to the Illinois Department of Labor (IDOL) through the Illinois Prevailing Wage Portal in compliance with the State Prevailing Wage Act (820 ILCS 130). The portal can be found on the IDOL website at https://www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/Prevailing-Wage-Portal.aspx. Payrolls shall be submitted in the format prescribed by the IDOL.

In addition to filing certified payroll(s) with the IDOL, the Contractor and each subcontractor shall certify and submit payroll records to the Department each week from the start to the completion of their respective work, except that full social security numbers shall not be included on weekly submittals. Instead, the payrolls shall include an

identification number for each employee (e.g., the last four digits of the employee's social security number). In addition, starting and ending times of work each day may be omitted from the payroll records submitted. The submittals shall be made using LCPtracker Pro software. The software is web-based and can be accessed at https://lcptracker.com/. When there has been no activity during a work week, a payroll record shall still be submitted with the appropriate option ("No Work", "Suspended", or "Complete") selected."

TRAINING SPECIAL PROVISIONS (BDE)

Effective: October 15, 1975 Revised: September 2, 2021

This Training Special Provision supersedes Section 7b of the Special Provision entitled "Specific Equal Employment Opportunity Responsibilities," and is in implementation of 23 U.S.C. 140(a).

As part of the Contractor's equal employment opportunity affirmative action program, training shall be provided as follows:

The Contractor shall provide on-the-job training aimed at developing full journeyman in the type of trade or job classification involved. The number of trainees to be trained under this contract will be <u>1</u>. In the event the Contractor subcontracts a portion of the contract work, it shall determine how many, if any, of the trainees are to be trained by the subcontractor, provided however, that the Contractor shall retain the primary responsibility for meeting the training requirements imposed by this special provision. The Contractor shall also ensure that this Training Special Provision is made applicable to such subcontract. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training.

The number of trainees shall be distributed among the work classifications on the basis of the Contractor's needs and the availability of journeymen in the various classifications within the reasonable area of recruitment. Prior to commencing construction, the Contractor shall submit to the Illinois Department of Transportation for approval the number of trainees to be trained in each selected classification and training program to be used. Furthermore, the Contractor shall specify the starting time for training in each of the classifications. The Contractor will be credited for each trainee it employs on the contract work who is currently enrolled or becomes enrolled in an approved program and will be reimbursed for such trainees as provided hereinafter.

Training and upgrading of minorities and women toward journeyman status is a primary objective of this Training Special Provision. Accordingly, the Contractor shall make every effort to enroll minority trainees and women (e.g. by conducting systematic and direct recruitment through public and private sources likely to yield minority and women trainees) to the extent such persons are available within a reasonable area of recruitment. The Contractor will be responsible for demonstrating the steps it has taken in pursuance thereof, prior to a determination as to whether the Contractor is in compliance with this Training Special Provision. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not.

No employee shall be employed as a trainee in any classification in which he or she has successfully completed a training course leading to journeyman status or in which he or she has been employed as a journeyman. The Contractor should satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used, the Contractor's records should document the findings in each case.

The minimum length and type of training for each classification will be as established in the training program selected by the Contractor and approved by the Illinois Department of Transportation and the Federal Highway Administration. The Illinois Department of Transportation and the Federal Highway Administration shall approve a program, if it is reasonably calculated to meet the equal employment opportunity obligations of the Contractor and to qualify the average trainee for journeyman status in the classification concerned by the end of the training period. Furthermore, apprenticeship programs registered with the U.S. Department of Labor, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau and training programs approved by not necessarily sponsored by the U.S. Department of Labor Employment Training Administration shall also be considered acceptable provided it is being administered in a manner consistent with the equal employment obligations of Federal-aid highway construction contracts. Approval or acceptance of a training program shall be obtained from the State prior to commencing work on the classification covered by the program. It is the intention of these provisions that training is to be provided in the construction crafts rather than clerk-typists or secretarial-type positions. Training is permissible in lower level management positions such as office engineers, estimators, timekeepers, etc., Training in the laborer where the training is oriented toward construction applications. classification may be permitted provided that significant and meaningful training is provided and approved by the Illinois Department of Transportation and the Federal Highway Administration. Some offsite training is permissible as long as the training is an integral part of an approved training program and does not comprise a significant part of the overall training.

Except as otherwise noted below, the Contractor will be reimbursed 80 cents per hour of training given an employee on this contract in accordance with an approved training program. As approved by the Engineer, reimbursement will be made for training of persons in excess of the number specified herein. This reimbursement will be made even though the Contractor receives additional training program funds from other sources, provided such other source does not specifically prohibit the Contractor from receiving other reimbursement. Reimbursement for offsite training indicated above may only be made to the Contractor where he does one or more of the following and the trainees are concurrently employed on a Federal-aid project; contributes to the cost of the training, provides the instruction to the trainee or pays the trainee's wages during the offsite training period.

No payment shall be made to the Contractor if either the failure to provide the required training, or the failure to hire the trainee as a journeyman, is caused by the Contractor and evidences a lack of good faith on the part of the Contractor in meeting the requirement of this Training Special Provision. It is normally expected that a trainee will begin his training on the project as soon as feasible after start of work utilizing the skill involved and remain on the project as long as training opportunities exist in his work classification or until he has completed his training program.

It is not required that all trainees be on board for the entire length of the contract. A Contractor will have fulfilled his responsibilities under this Training Special Provision if he has provided acceptable training to the number of trainees specified. The number trained shall be determined on the basis of the total number enrolled on the contract for a significant period.

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

The Contractor shall furnish the trainee a copy of the program he will follow in providing the training. The Contractor shall provide each trainee with a certification showing the type and length of training satisfactorily complete.

The Contractor shall provide for the maintenance of records and furnish periodic reports documenting its performance under this Training Special Provision.

For contracts with an awarded contract value of \$500,000 or more, the Contractor is required to comply with the Illinois Works Apprenticeship Initiative (30 ILCS 559/20-20 to 20-25) and all applicable administrative rules to the extent permitted by Section 20-20(g). For federally funded projects, the number of trainees to be trained under this contract, as stated in the Training Special Provisions, will be the established goal for the Illinois Works Apprenticeship Initiative 30 ILCS 559/20-20(g). The Contractor shall make a good faith effort to meet this goal. For federally funded projects, the Illinois Works Apprenticeship Initiative will be implemented using the FHWA approved OJT procedures. The Contractor must comply with the recordkeeping and reporting obligations of the Illinois Works Apprenticeship Initiative for the life of the project, including the certification as to whether the trainee/apprentice labor hour goals were met.

Method of Measurement. The unit of measurement is in hours.

<u>Basis of Payment</u>. This work will be paid for at the contract unit price of 80 cents per hour for TRAINEES. The estimated total number of hours, unit price, and total price have been included in the schedule of prices.

VEHICLE AND EQUIPMENT WARNING LIGHTS (BDE)

Effective: November 1, 2021 Revised: November 1, 2022

Add the following paragraph after the first paragraph of Article 701.08 of the Standard Specifications:

"The Contractor shall equip all vehicles and equipment with high-intensity oscillating, rotating, or flashing, amber or amber-and-white, warning lights which are visible from all directions. In accordance with 625 ILCS 5/12-215, the lights may only be in operation while the vehicle or equipment is engaged in construction operations."

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.

WORK ZONE TRAFFIC CONTROL DEVICES (BDE)

Effective: March 2, 2020

Add the following to Article 701.03 of the Standard Specifications:

"(q) Temporary Sign Supports1106.02"

Revise the third paragraph of Article 701.14 of the Standard Specifications to read:

"For temporary sign supports, the Contractor shall provide a FHWA eligibility letter for each device used on the contract. The letter shall provide information for the set-up and use of the device as well as a detailed drawing of the device. The signs shall be supported within 20 degrees of vertical. Weights used to stabilize signs shall be attached to the sign support per the manufacturer's specifications."

Revise the first paragraph of Article 701.15 of the Standard Specifications to read:

"701.15 Traffic Control Devices. For devices that must meet crashworthiness standards, the Contractor shall provide a manufacturer's self-certification or a FHWA eligibility letter for each Category 1 device and a FHWA eligibility letter for each Category 2 and Category 3 device used on the contract. The self-certification or letter shall provide information for the set-up and use of the device as well as a detailed drawing of the device."

Revise the first six paragraphs of Article 1106.02 of the Standard Specifications to read:

"1106.02 Devices. Work zone traffic control devices and combinations of devices shall meet crashworthiness standards for their respective categories. The categories are as follows.

Category 1 includes small, lightweight, channelizing and delineating devices that have been in common use for many years and are known to be crashworthy by crash testing of similar devices or years of demonstrable safe performance. These include cones, tubular markers, plastic drums, and delineators, with no attachments (e.g. lights). Category 1 devices manufactured after December 31, 2019 shall be MASH-16 compliant. Category 1 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350 or MASH 2009, may be used on contracts let before December 31, 2024.

Category 2 includes devices that are not expected to produce significant vehicular velocity change but may otherwise be hazardous. These include vertical panels with lights, barricades, temporary sign supports, and Category 1 devices with attachments (e.g. drums with lights). Category 2 devices manufactured after December 31, 2019 shall be MASH-16 compliant. Category 2 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350 or MASH 2009, may be used on contracts let before December 31, 2024.

Category 3 includes devices that are expected to cause significant velocity changes or other potentially harmful reactions to impacting vehicles. These include crash cushions (impact

attenuators), truck mounted attenuators, and other devices not meeting the definitions of Category 1 or 2. Category 3 devices manufactured after December 31, 2019 shall be MASH-16 compliant. Category 3 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350 or MASH 2009, may be used on contracts let before December 31, 2029. Category 3 devices shall be crash tested for Test Level 3 or the test level specified.

Category 4 includes portable or trailer-mounted devices such as arrow boards, changeable message signs, temporary traffic signals, and area lighting supports. It is preferable for Category 4 devices manufactured after December 31, 2019 to be MASH-16 compliant; however, there are currently no crash tested devices in this category, so it remains exempt from the NCHRP 350 or MASH compliance requirement.

For each type of device, when no more than one MASH-16 compliant is available, an NCHRP 350 or MASH-2009 compliant device may be used, even if manufactured after December 31, 2019."

Revise Articles 1106.02(g), 1106.02(k), and 1106.02(l) to read:

- "(g) Truck Mounted/Trailer Mounted Attenuators. The attenuator shall be approved for use at Test Level 3. Test Level 2 may be used for normal posted speeds less than or equal to 45 mph.
- (k) Temporary Water Filled Barrier. The water filled barrier shall be a lightweight plastic shell designed to accept water ballast and be on the Department's qualified product list.
 - Shop drawings shall be furnished by the manufacturer and shall indicate the deflection of the barrier as determined by acceptance testing; the configuration of the barrier in that test; and the vehicle weight, velocity, and angle of impact of the deflection test. The Engineer shall be provided one copy of the shop drawings.
- (I) Movable Traffic Barrier. The movable traffic barrier shall be on the Department's qualified product list.

Shop drawings shall be furnished by the manufacturer and shall indicate the deflection of the barrier as determined by acceptance testing; the configuration of the barrier in that test; and the vehicle weight, velocity, and angle of impact of the deflection test. The Engineer shall be provided one copy of the shop drawings. The barrier shall be capable of being moved on and off the roadway on a daily basis."

WORKING DAYS (BDE)

Effective: January 1, 2002

The Contractor shall complete the work within 85 working days.

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

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

ATTACHMENTS

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

I. GENERAL

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

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

Form FHWA-1273 must be included in all Federal-aid designbuild contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services) in accordance with 23 CFR 633.102. The designbuilder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

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

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work

performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract. 23 CFR 633.102(d).

- 3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.
- 4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. 23 U.S.C. 114(b). The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors. 23 U.S.C. 101(a).
- II. NONDISCRIMINATION (23 CFR 230.107(a); 23 CFR Part 230, Subpart A, Appendix A; EO 11246)

The provisions of this section related to 23 CFR Part 230, Subpart A, Appendix A are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

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

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 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 Part 60, and 29 CFR Parts 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), and Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

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

- 1. Equal Employment Opportunity: Equal Employment Opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (see 28 CFR Part 35, 29 CFR Part 1630, 29 CFR Parts 1625-1627, 41 CFR Part 60 and 49 CFR Part 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140, shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR Part 35 and 29 CFR Part 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:
- a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract. 23 CFR 230.409 (g)(4) & (5).
- b. The contractor will accept as its operating policy the following statement:

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

- 2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so
- 3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action or are substantially involved in such action, will be made fully cognizant of and will implement the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:
- a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer or other knowledgeable company official.
- b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.
- c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women

- d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.
- e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.
- **4. Recruitment:** When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.
- a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.
- b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.
- c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.
- **5. Personnel Actions:** Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age or disability. The following procedures shall be followed:
- a. The contractor will conduct periodic inspections of project sites to ensure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.
- b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.
- c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.
- d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action

within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

- a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.
- b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs (i.e., apprenticeship and on-the-job training programs for the geographical area of contract performance). In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).
- c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.
- d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.
- 7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. 23 CFR 230.409. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:
- a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.
- b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability.
- c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.
- d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide

sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

- 8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established thereunder. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.
- 9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.
- The contractor shall notify all potential subcontractors, suppliers, and lessors of their EEO obligations under this contract.
- b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurances Required:

- a. The requirements of 49 CFR Part 26 and the State DOT's FHWA-approved Disadvantaged Business Enterprise (DBE) program are incorporated by reference.
- b. The contractor, subrecipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:
 - (1) Withholding monthly progress payments;
 - (2) Assessing sanctions;
 - (3) Liquidated damages, and/or
- (4) Disqualifying the contractor from future bidding as non-responsible.
- c. The Title VI and nondiscrimination provisions of U.S. DOT Order 1050.2A at Appendixes A and E are incorporated by reference. 49 CFR Part 21.
- 11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.
- a. The records kept by the contractor shall document the following:

- (1) The number and work hours of minority and nonminority group members and women employed in each work classification on the project;
 - (2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and
 - (3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women.
- b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project indicating the number of minority, women, and 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 more than \$10,000. 41 CFR 60-1.5.

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

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

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

Projects funded under 23 U.S.C. 117, and National Highway Freight Program projects funded under 23 U.S.C. 167.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA- 1273 format and FHWA program requirements.

1. Minimum wages (29 CFR 5.5)

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

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

- b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:
 - (i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and
 - (ii) The classification is utilized in the area by the construction industry; and

- (iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.
- (2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.
- (3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.
- (4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.
- c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof
- d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding (29 CFR 5.5)

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

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

3. Payrolls and basic records (29 CFR 5.5)

- a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.
- b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency.
 - (2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or

subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

- (i) That the payroll for the payroll period contains the information required to be provided under 29 CFR 5.5(a)(3)(ii), the appropriate information is being maintained under 29 CFR 5.5(a)(3)(i), and that such information is correct and complete;
- (ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR part 3;
- (iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.
- (3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH–347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.
- (4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under 18 U.S.C. 1001 and 31 U.S.C. 231.
- c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees (29 CFR 5.5)

a. Apprentices (programs of the USDOL).

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

Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed

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

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

b. Trainees (programs of the USDOL).

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

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

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the

corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

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

- c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.
 - d. Apprentices and Trainees (programs of the U.S. DOT).

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

- **5. Compliance with Copeland Act requirements.** The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract as provided in 29 CFR 5.5.
- **6. Subcontracts.** The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.
- **7. Contract termination: debarment.** A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.
- 8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract as provided in 29 CFR 5.5.
- **9. Disputes concerning labor standards.** As provided in 29 CFR 5.5, disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor

set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility (29 CFR 5.5)

- a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- c. The penalty for making false statements is prescribed in the U.S. Criminal Code, $18\,U.S.C.\,1001.$

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

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

- 1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek. 29 CFR 5.5
- 2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph 1 of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph 1 of this section, in the sum currently provided in 29 CFR 5.5(b)(2)* for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph 1 of this section. 29 CFR 5.5.
- * \$27 as of January 23, 2019 (See 84 FR 213-01, 218) as may be adjusted annually by the Department of Labor; pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990).

- 3. Withholding for unpaid wages and liquidated damages. The FHWA or the contacting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 2 of this section.
- 4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs 1 through 4 of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs 1 through 4 of this section. 29 CFR 5.5.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System pursuant to 23 CFR 635.116.

- 1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).
- a. The term "perform work with its own organization" in paragraph 1 of Section VI refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions: (based on longstanding interpretation)
- (1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees:
 - (2) the prime contractor remains responsible for the quality of the work of the leased employees;
- (3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
- (4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.
- b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or

- equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract. 23 CFR 635.102.
- 2. Pursuant to 23 CFR 635.116(a), the contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.
- 3. Pursuant to 23 CFR 635.116(c), the contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.
- 4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract. (based on long-standing interpretation of 23 CFR 635.116).
- 5. The 30-percent self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements. 23 CFR 635.116(d).

VII. SAFETY: ACCIDENT PREVENTION

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

- 1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR Part 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract. 23 CFR 635.108.
- 2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR Part 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704). 29 CFR 1926.10.
- 3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance

with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

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

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on 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 Part 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 11, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT (42 U.S.C. 7606; 2 CFR 200.88; EO 11738)

This provision is applicable to all Federal-aid construction contracts in excess of \$150,000 and to all related subcontracts. 48 CFR 2.101; 2 CFR 200.326.

By submission of this bid/proposal or the execution of this contract or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, subcontractor, supplier, or vendor agrees to comply with all applicable standards, orders

or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal Highway Administration and the Regional Office of the Environmental Protection Agency. 2 CFR Part 200, Appendix II.

The contractor agrees to include or cause to be included the requirements of this Section in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements. 2 CFR 200.326.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more — as defined in 2 CFR Parts 180 and 1200. 2 CFR 180.220 and 1200.220.

1. Instructions for Certification – First Tier Participants:

- a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.
- b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction. 2 CFR 180.320.
- c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default. 2 CFR 180.325.
- d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances. 2 CFR 180.345 and 180.350.
- e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900-180.1020, and 1200. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant

who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

- f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction. 2 CFR 180.330.
- g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold. 2 CFR 180.220 and 180.300.
- h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. 2 CFR 180.300; 180.320, and 180.325. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. 2 CFR 180.335. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (https://www.sam.gov/). 2 CFR 180.300, 180.320, and 180.325.
- i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default. 2 CFR 180.325.

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

- a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:
- (1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.335;.

- (2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property, 2 CFR 180.800;
- (3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification, 2 CFR 180.700 and 180.800; and
- (4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default. 2 CFR 180.335(d).
- (5) Are not a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and
- (6) Are not a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability (USDOT Order 4200.6 implementing appropriations act requirements).
- b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal. 2 CFR 180.335 and 180.340.

3. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders, and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200). 2 CFR 180.220 and 1200.220.

- a. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.
- b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.
- c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances. 2 CFR 180.365.
- d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900 180.1020, and 1200. You may contact the person to which this proposal is

submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

- e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated. 2 CFR 1200.220 and 1200.332.
- f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold. 2 CFR 180.220 and 1200.220.
- g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (https://www.sam.gov/), which is compiled by the General Services Administration. 2 CFR 180.300, 180.320, 180.330, and 180.335.
- h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment. 2 CFR 180.325.

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals:

- (a) is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.355;
- (b) is a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and
- (c) is a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability. (USDOT Order 4200.6 implementing appropriations act requirements)
- Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal.

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XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

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

- 1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:
- a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- 2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.
- 3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier

subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

XII. USE OF UNITED STATES-FLAG VESSELS:

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, or any other covered transaction. 46 CFR Part 381.

This requirement applies to material or equipment that is acquired for a specific Federal-aid highway project. 46 CFR 381.7. It is not applicable to goods or materials that come into inventories independent of an FHWA funded-contract.

When oceanic shipments (or shipments across the Great Lakes) are necessary for materials or equipment acquired for a specific Federal-aid construction project, the bidder, proposer, contractor, subcontractor, or vendor agrees:

- 1. To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels. 46 CFR 381.7.
- 2. To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b)(1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Office of Cargo and Commercial Sealift (MAR-620), Maritime Administration, Washington, DC 20590. (MARAD requires copies of the ocean carrier's (master) bills of lading, certified onboard, dated, with rates and charges. These bills of lading may contain business sensitive information and therefore may be submitted directly to MARAD by the Ocean Transportation Intermediary on behalf of the contractor). 46 CFR 381.7.

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.