

## Special Provisions

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**SPECIAL PROVISIONS**

**1. General.**

Perform the work under this construction contract for Project 3393-01-81, S. Main Street, C. Jefferson, Rock River Structure B-28-0192, Jefferson County, Wisconsin as the plans show and execute the work as specified in the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction, 2022 Edition, as published by the department, and these special provisions.

If all or a portion of the plans and special provisions are developed in the SI metric system and the schedule of prices is developed in the US standard measure system, the department will pay for the work as bid in the US standard system.

100-005 (20210708)

**2. Scope of Work.**

The work under this contract shall consist of grading, backfill, base aggregate dense, concrete pavement, storm sewer, Structure B-28-0192 and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

104-005 (20090901)

**3. Prosecution and Progress.**

Begin work within ten calendar days after the engineer issues a written notice to do so.

The Notice to Proceed will be issued such that work shall start no earlier than September 6, 2022, unless otherwise approved by the engineer.

**Coordination**

The contractor shall notify the City of Jefferson Fire, EMS, and Police Departments; Jefferson Post Office; Jefferson School District; and the Dousman Transport Co., Inc. (Jefferson Terminal) 72 hours in advance of the start of work, closures of streets, and prior to traffic control changes. Notifications must be given by 4:00pm on Wednesday for any such work to be done on the following Monday. Advance notification as described above is considered incidental to the Traffic Control bid item.

Provide 24-hr contact information, including current telephone number(s) to the engineer, and the City of Jefferson Fire, EMS, and Police Departments in the event a safety hazard develops. Repair, replace, or restore the damaged or disturbed traffic control devices within two hours from the time notified.

**Fish Spawning**

There shall be no instream disturbance of Rock River at Station 19+13 as a result of construction activity under or for this contract, from March 1 to June 15 both dates inclusive, in order to protect developing fish eggs and substrate for aquatic organisms.

Any change to this limitation will require submitting a written request by the contractor to the engineer, subsequent review and concurrence by the Department of Natural Resources in the request, and final approval by the engineer. The approval will include all conditions to the request as mutually agreed upon by WisDOT and DNR.

**Migratory Birds**

Swallow or other migratory bird nests have been observed on or under the existing structure(s). All active nests (when eggs or young are present) of migratory birds are protected under the federal Migratory Bird Treaty Act. The nesting season for swallows and other birds is from April 15 to August 31.

#### **4. Holiday and Special Event Work Restrictions.**

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying BUS 26 (South Main Street) traffic, and entirely clear the traveled way and shoulders of such portions of the highway of equipment, barricades, signs, lights, and any other material that might impede the free flow of traffic during the following holiday and special event periods:

- From noon Friday, September 2, 2022 to 6:00 AM Tuesday, September 6, 2022 for Labor Day;
- From noon Wednesday, November 23, 2022 to 6:00 AM Friday, November 25, 2022 for Thanksgiving;
- From noon Friday, December 23, 2022 to 6:00 AM Tuesday, December 27 for Christmas;
- From noon Friday, December 30, 2022 to 6:00 AM Tuesday, January 3, 2023 for New Years;
- From noon Friday, May 26, 2023 to 6:00 AM Tuesday, May 30, 2023 for Memorial Day.

stp-107-005 (20210113)

#### **5. Traffic.**

##### **Detours**

Close S. Main Street to through traffic within the project limits while this project is under construction. A signed detour route is included in this work and will be utilized to route traffic around the project. Traffic will be routed to STH 26 and USH 18.

Provide 24 hours-a-day availability of equipment and forces to promptly restore barricades, lights, or other traffic control devices that are damaged or disturbed. In no case shall any barricade, light, or other traffic control device be out of service for more than two hours.

The cost to maintain and restore the above items shall be considered incidental to the Traffic Control bid item and no additional payment will be made therefore.

Do not store vehicles, equipment, or materials on adjacent streets beyond the project limits without specific approval of the engineer.

##### **Pedestrian Access**

A local pedestrian and bicyclist detour route is included in this work. Pedestrian and bicycle traffic will be routed around the work zone to a pedestrian bridge approximately 0.7 miles northwest of the work zone.

Temporary crosswalks are included in this work. Maintain temporary pedestrian access in accordance with the current Americans with Disabilities Act (ADA) Accessibility Guidelines (ADAAG), as detailed in the Traffic Control – Detour section of the plans.

##### **Private and Commercial Access**

Access to businesses and residences shall be maintained throughout the project. If an access is to be temporarily closed, notify those affected at least two business days in advance of the closure. All access shall be restored by the end of the work day.

#### **6. Environmental Protection, Aquatic Exotic Species Control.**

Exotic invasive organisms such as VHS, zebra mussels, purple loosestrife, and Eurasian water milfoil are becoming more prolific in Wisconsin and pose adverse effects to waters of the state. Wisconsin State Statutes 30.07, "Transportation of Aquatic Plants and Animals; Placement of Objects in Navigable Waters", details the state law that requires the removal of aquatic plants and zebra mussels each time equipment is put into state waters.

At construction sites that involve navigable water or wetlands, use the follow cleaning procedures to minimize the chance of exotic invasive species infestation. Use these procedures for all equipment that comes in contact with waters of the state and/or infested water or potentially infested water in other states.

Ensure that all equipment that has been in contact with waters of the state, or with infested or potentially infested waters, has been decontaminated for aquatic plant materials and zebra mussels before being used in other waters of the state. Before using equipment on this project, thoroughly disinfect all equipment that has come into contact with potentially infested waters. Guidelines from the Wisconsin Department of Natural Resources for disinfection are available at:

Use the following inspection and removal procedures:

1. Before leaving the contaminated site, wash machinery and ensure that the machinery is free of all soil and other substances that could possibly contain exotic invasive species;
2. Drain all water from boats, trailers, bilges, live wells, coolers, bait buckets, engine compartments, and any other area where water may be trapped;
3. Inspect boat hulls, propellers, trailers and other surfaces. Scrape off any attached mussels, remove any aquatic plant materials (fragments, stems, leaves, seeds, or roots), and dispose of removed mussels and plant materials in a garbage can before leaving the area or invested waters; and
4. Disinfect your boat, equipment and gear by either:
  - 4.1. Washing with ~212 F water (steam clean), or
  - 4.2. Drying thoroughly for five days after cleaning with soap and water and/or high pressure water, or
  - 4.3. Disinfecting with either 200 ppm (0.5 oz per gallon or 1 Tablespoon per gallon) Chlorine for 10-minute contact time or 1:100 solution (38 grams per gallon) of Virkon Aquatic for 20- to 30-minute contact time. Note: Virkon is not registered to kill zebra mussel veligers nor invertebrates like spiny water flea. Therefore, this disinfect should be used in conjunction with a hot water (>104° F) application.

Complete the inspection and removal procedure before equipment is brought to the project site and before the equipment leaves the project site.

stp-107-055 (20130615)

## **7. Construction Over or Adjacent to Navigable Waters.**

The Rock River is classified as a federal navigable waterway under standard spec 107.19.

stp-107-060 (20171130)

## **8. Utilities.**

This contract comes under the provision of Administrative Rule Trans 220.

stp-107-065 (20080501)

There are utility facilities within the construction limits of this project. Coordinate construction activities with a call to Diggers Hotline or a direct call to the utilities for the underground facilities in the area, as required per statutes. Take all required precautions when working within 18 inches of underground utilities. Use caution to maintain the integrity of underground utilities and maintain OSHA code clearances from overhead facilities at all times.

Contact each utility company listed in the plans, prior to preparing bids, to obtain current information on the status of existing and any new utility relocation work.

### **AT&T Wisconsin – Communication Line**

AT&T has overhead and underground communication facilities within the project limits. No conflicts are anticipated with the existing underground cables. The hand hole located 16+30, 32' LT will be adjusted during construction to match the final terrace grade.

The field contact person for this project is Ryan Denewellis, (608) 358-6285, [rd1238@att.com](mailto:rd1238@att.com).

### **Charter Communications – Communication Line**

Charter Communications has overhead communication facilities crossing Riverview Drive. No conflicts are anticipated and relocations are not planned.

The field contact person for this project is Ron Frase, (920) 349-5056, [ronald.frase@charter.com](mailto:ronald.frase@charter.com).

### **Jefferson Utilities - Electric**

Jefferson Utilities has overhead electric facilities located along Riverview Drive. No conflicts are anticipated and relocations are not planned.

Jefferson Utilities also has street lighting throughout the project. The street lights will be replaced as part of this contract.

The field contact person for this project is Scott Adler, (920) 674-7711, [sadler@jeffersonutilities.com](mailto:sadler@jeffersonutilities.com).

#### **Jefferson Wastewater Treatment Facility – Water**

Jefferson Wastewater Treatment Facility has water main facilities located within the project limits on Riverview Drive. There are no conflicts with the water main, however, the water valves within the project limits will be adjusted during construction.

The field contact person for this project is Todd Clark, (920) 674-7705, [toddclark@jeffersonwis.com](mailto:toddclark@jeffersonwis.com).

#### **Jefferson Wastewater Treatment Facility – Sanitary**

Jefferson Wastewater Treatment Facility has sanitary sewer facilities located within the project limits on Riverview Drive. There are no conflicts with the sewer main, however, the manhole covers within the project limits will be adjusted during construction.

The field contact person for this project is Todd Clark, (920) 674-7705, [toddclark@jeffersonwis.com](mailto:toddclark@jeffersonwis.com).

#### **Jefferson County – Communication Line**

Jefferson County has underground communication facilities located within the project limits. Conflicts are anticipated. Relocation plan is pending.

- Underground fiber optic cables parallel with BUS 26 under the Rock River
- Underground fiber optic cables crossing Riverview Dr at 48+87 and 49+54.
- Underground fiber optic handhole at Riverview Dr 49+67, 32' RT.

The field contact person for this project is John Rageth, (920) 674-5954, [johnr@jeffersoncountywi.gov](mailto:johnr@jeffersoncountywi.gov).

#### **We Energies – Gas**

We Energies has underground gas facilities within the project limits. No conflicts are anticipated with the underground gas mains. The gas valve located at 49+00 (Riverview Dr), 31' RT will be adjusted during construction to match the final sidewalk grade.

The field contact person for this project is Scott Holstein, (262) 949-0490, [scott.holstein@we-energies.com](mailto:scott.holstein@we-energies.com).

### **9. Erosion Control Structures.**

Within three calendar days after completing the excavation for a substructure unit, place riprap or other permanent erosion control items required by the contract or deemed necessary by the engineer around the unit at a minimum to a height equivalent to the calculated water elevation resulting from a storm that occurs on the average of once every two years (Q2) as shown on the plan, or as the engineer directs.

In the event that construction activity does not disturb the existing ground below the Q2 elevation, the above timing requirements for permanent erosion control shall be waived.

stp-107-070 (20191121)

### **10. Coordination with Businesses and Residents.**

The contractor shall arrange and conduct a meeting between the contractor, the department, affected residents, local officials and business people to discuss the project schedule of operations including vehicular and pedestrian access during construction operations. Hold the first meeting at least one week before the start of work under this contract and hold one meeting per month thereafter. The contractor shall arrange for a suitable location for meetings that provides reasonable accommodation for public involvement. The department will prepare and coordinate publication of the meeting notices and mailings for meetings. The contractor shall schedule meetings with at least 2 weeks' prior notice to the engineer to allow for these notifications.

stp-108-060 (20141107)

**11. Notice to Contractor – River Monitoring Wire Weight Box.**

Jefferson County Emergency Management will remove the existing river monitoring wire weight box from the existing structure prior to construction.

**12. Abatement of Asbestos Containing Material B-28-11, Item 203.0211.S.01.**

**A Description**

This special provision describes abating asbestos containing material on structures.

**B (Vacant)**

**C Construction**

John Roelke, License Number All-119523, inspected Structure B-28-11 for asbestos on September 14, 2015 and September 24, 2015. Regulated Asbestos Containing Material (RACM) was found on this structure in the following locations and quantities: Caulk around railing attachment plate; PLM, 3%; non-friable; approximately 17.8 square feet.

The RACM on this structure must be abated by a licensed abatement contractor. A copy of the inspection report is available from Erin Rieser, 608-400-6171. According to NR447 and DHS159, ensure that DNR or DHS receives a completed Notification of Demolition and/or Renovation (DNR Form 4500-113 (R 4/11), or subsequent revision) via U.S. mail, hand-delivery, or using the online notification system at least 10 working days before beginning any construction or demolition. Pay all associated fees. Provide a copy of the completed 4500-113 form and the abatement report to Erin Rieser, 608-400-6171 and DOT BTS-ESS attn: Hazardous Materials Specialist, 5 South S513.12, PO Box 7965, Madison, WI 53707-7965. In addition, comply with all local or municipal asbestos requirements.

Use the following information to complete WisDNR form 4500-113:

- Site Name: Structure B-28-11, BUS 26 over Rock River
- Site Address: S11, T6N, R14E; Latitude: 425946.74N; Longitude 884826.38W, City of Jefferson, Jefferson County
- Ownership Information: WisDOT Transportation Southwest Region, 2101 Wright St. Madison, WI 53704
- Contact: Jeremy Hall
- Phone: 608-245-2655
- Age: 63 years. This structure was constructed in 1958
- Area: 15,017 SF of deck

Insert the following paragraph in Section 6.g.:

- If asbestos not previously identified is found or previously non-friable asbestos becomes crumbled, pulverized, or reduced to a powder, stop work immediately, notify the engineer, and the engineer will notify the department's Bureau of Technical Services at (608) 266-1476 for an emergency response as specified in standard spec 107.24. Keep material wet until it is abated or until it is determined to be non-asbestos containing material.

**D Measurement**

The department will measure Abatement of Asbestos Containing Material (Structure #) by each structure, acceptably completed.

**E Payment**

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
203.0211.S.01	Abatement of Asbestos Containing Material B-28-11	EACH

Payment is full compensation for submitting necessary forms; removing all asbestos; and for properly disposing of all waste materials.

stp-203-005 (20210708)

**13. Removing Electrical Conductors from Existing Conduit, Item 204.9090.S.01.**

**A Description**

This special provision describes removing electrical conductors from existing conduit and disposing them off of the project site.

**B (Vacant)**

**C Construction**

Wires shall be removed from the existing underground conduits as shown on the plans and as directed by the engineer. The engineer shall verify the extent of the wiring removal prior to disconnecting luminaires. Any necessary splices or disconnections shall be done as part of this pay item. Removed wires shall become property of the contractor and shall be disposed of off the project site.

**D Measurement**

The department will measure Removing Electrical Wires from Existing Conduit by linear feet of conduit from where wires shall be removed and disposed of, regardless of conductor quantity within conduit, acceptably completed. The vertical length and wire slack shall be incidental to this pay item.

**E Payment**

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
204.9090.S.01	Removing Electrical Conductors from Existing Conduit	LF

Payment is full compensation for removing electrical wires from conduits and disposal of all removed materials.

**14. Ice Hot Weather Concreting, Item 501.1000.S.**

Conform to standard spec 501.3.8.2 except the department will pay for ice at the contract unit price under the Ice Hot Weather Concreting bid item. This special provision only applies to work done under the following contract bid items:

Concrete Masonry Bridges	Concrete Masonry Retaining Walls
Concrete Masonry Bridges HES	Concrete Masonry Retaining Walls HES
Concrete Masonry Culverts	Concrete Masonry Endwalls
Concrete Masonry Culverts HES	Concrete Masonry Overlay Decks
Concrete Barrier Single-Faced 32-Inch	Concrete Barrier (type)
Concrete Barrier Double-Faced 32-Inch	Concrete Barrier Fixed Object Protection (type)
Concrete Barrier Transition Section 32-Inch	Concrete Barrier Transition (type)

*Replace standard spec 501.4 and 501.5 with the following:*

**501.4 Measurement**

- (1) The department will measure Ice Hot Weather Concreting by the pound acceptably completed, measured only if the conditions prescribed in standard spec 501.3.8.2 are met.

**501.5 Payment**

- (1) The department will pay for the measured quantity at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
501.1000.S	Ice Hot Weather Concreting	LB

- (2) Payment for Ice Hot Weather Concreting is full compensation for ice used to cool concrete placed in hot weather as specified in standard spec 501.3.8.2.
- (3) The department will not pay directly for the concrete specified under this section. Concrete is incidental to the various bid items using it. Payment under those bid items includes providing all materials, including aggregates and associated aggregate source testing, cement, fly ash, slag, and admixtures; and for preparing, transporting, storing, protecting and curing concrete.
- (4) If required to remove and replace any concrete damaged by lack of proper protection. Perform this work at no expense to the department.

stp-501-010 (20210708)

## 15. Pier Construction.

Determine the method of construction, and observe the following conditions:

1. If a cofferdam is used, build the cofferdam of non-erodable material.
2. Concrete poured under water will be allowed; pour the concrete conforming to standard spec 502.3.5.3. Ensure that the forms are tight to prevent leakage of concrete into the stream. Treat all displaced water by filtration, settling basin, or other means sufficient to reduce the cement content before discharging the water into the stream.
3. Excavated material from the stream may be utilized in the fill slopes so long as it is covered with other suitable material to prevent it from eroding back into the stream.

stp-502-010 (20050502)

## 16. Underwater Substructure Inspection B-28-0192, Item 502.9000.S.01.

### A Description

This special provision describes providing underwater inspections of the substructure seal(s), footing(s) or shaft(s).

### B (Vacant)

### C Construction

After placement of Concrete Masonry Bridges or Concrete Masonry Seal for the substructure and as soon as practicable after removal of the forms, provide a diver who, under the direction of the engineer, will report the characteristics and quality of the concrete placed below water level to ensure that the concrete masonry has been properly formed and placed.

Provide a video monitor and video camera, along with two-way audio communications with the diver during the inspection and record the video and audio.

Correct all deficiencies in the concrete and repeat the inspections until all deficiencies are corrected.

### D Measurement

The department will measure Underwater Substructure Inspection B-28-0192 once for each individual unit, acceptably completed. The entire pier or abutment substructure location is considered a unit. Multiple underwater inspections at the same substructure location to correct concrete deficiencies will not be measured.

### E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
502.9000.S.01	Underwater Substructure Inspection B-28-0192	EACH

Payment is full compensation for all diving inspections and reporting; and for supplying video and two-way audio communications equipment and recorded electronic video and audio files. Payment for correcting deficiencies in the placed concrete will be included at no extra cost to the project.

stp-502-090 (20190618)

## 17. Bar Steel Reinforcement HS Stainless Structures, Item 505.0800.S.

### A Description

This special provision describes furnishing and placing stainless steel reinforcing bars and associated stainless steel bar couplers.

Conform to standard spec 505 as modified in this special provision.

### B Materials

#### B.1 General

Furnish stainless steel reinforcing bars conforming to ASTM A955 and to one of the following Unified Numbering System (UNS) designations: S31653, S31803, S32205, or S32304. Supply grade 60 bars, all



of the same UNS designation. Conform to the chemical composition specified for the given UNS designation in ASTM A276 table 1.

Supply bars that are free of dirt, mill scale, oil, and debris by pickling to a bright or uniform light finish. The department may reject bars displaying rust/oxidation, questionable blemishes, or lack of a bright or uniform pickled surface.

Furnish chairs or continuous supports made of stainless steel or recycled plastic to support high-strength stainless bar steel reinforcement subject to the plastic chair restriction stated in standard spec 505.3.4(1).

Furnish couplers made from one of the UNS alloys allowed for bar steel.

Furnish tie wire made from one of the UNS alloys allowed for bar steel or from an engineer-approved plastic or nonmetallic material. Ensure that stainless steel tie wire is dead soft annealed.

## **B.2 Fabrication**

Before fabrication, supply test results from an independent testing agency certifying that the reinforcement meets the requirements of Annex A1 of ASTM A955.

Bend bars conforming to standard spec 505.3.2 and according to ASTM A955. Bend and cut bars using equipment thoroughly cleaned or otherwise modified to prevent contamination from carbon steel or other contaminants. Use tools dedicated solely to working with stainless steel.

## **B.3 Control of Material**

Identify reinforcement bars delivered to the project site with tags bearing the identification symbols used in the plans. Include the UNS designation, heat treat condition, heat number, grade corresponding to minimum yield strength level, and sufficient documentation to track each bar bundle to a mill test report.

Provide samples for department testing and acceptance according to CMM 8-50 Exhibit 1 requirements for concrete masonry reinforcement for uncoated bar steel.

Provide mill test reports for the project that do the following:

1. Verify that sampling and testing procedures and test results conform to ASTM A955, ASTM A276 table 1, and these contract requirements.
2. Include a chemical analysis with the UNS designation, heat lot identification, and the source of the metal.
3. Include tensile strength, yield strength, and elongation tests results conforming to ASTM A955 for each size furnished.
4. Certify that the bars have been pickled to a bright or uniform light finish.

## **C Construction**

### **C.1 General**

Ship, handle, store, and place the stainless steel reinforcing as follows:

1. Separate from regular reinforcement during shipping. Pad points of contact with steel chains or banding, or secure with non-metallic straps.
2. Store on wooden cribbing separated from regular reinforcement. Cover with tarpaulins if stored outside.
3. Handle with non-metallic slings.
4. Do not flame cut or weld. Protect from contamination when cutting, grinding, or welding other steel products above or near the stainless steel during construction.
5. Place on plastic or stainless steel bar chairs. If placing stainless steel chairs on steel beams, use chairs with plastic-coated feet.
6. Tie with stainless steel wire or an engineer-approved plastic or nonmetallic material.

Do not tie stainless steel reinforcing bars to, or allow contact with, uncoated reinforcing bars or galvanized steel. Maintain at least 1 inch clearance between stainless steel bars or dowels and uncoated or galvanized steel. Where 1 inch clearance is not possible, sleeve bars with a continuous polyethylene or nylon tube at least 1/8 inch thick extending at least 1 inch in each direction and bind with nylon or polypropylene cable ties. Sleeves are not required between stainless steel bars and shear studs. Stainless steel bars can be in direct contact with undamaged epoxy-coated bars.

Cut flush with the top flange or remove uncoated fasteners, anchors, lifting loops, or other protrusions into a bridge deck before casting the deck on prestressed concrete beams.

### **C.2 Splices**

Splice as the plans show. Provide stainless steel couplers conforming to the minimum capacity, certification, proof testing, and written approval requirements of standard spec 550.3.3.4. The contractor may substitute stainless steel couplers for lap slices the plans show if the engineer approves in writing.

If increasing or altering the number or type of bar splices the plans show, provide revised plan sheets to the engineer showing the reinforcement layout, type, length, and location of revised bar splices and revised bar lengths. Obtain engineer approval for the location of new lap splices or substitution of mechanical bar couplers before fabrication. Ensure that new lap splices are at least as long as those the plans show.

#### **D Measurement**

The department will measure Bar Steel Reinforcement HS Stainless Structures by the pound, acceptably completed, computed from the nominal weights of corresponding sizes for carbon steel deformed bars in AASHTO M31 regardless of stainless steel alloy provided. The department will not measure extra material used if the contractor alters the reinforcement layout as allowed under C.2, extra material for splices or couplers the plans do not show, or the weight of devices used to support or fasten the steel in position.

The department will measure the Bar Couplers Stainless bid items as each individual coupler, acceptably completed.

#### **E Payment**

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
505.0800.S	Bar Steel Reinforcement HS Stainless Structures	LB

Payment for Bar Steel Reinforcement HS Stainless Structures is full compensation for furnishing and placing stainless steel reinforcing bars, including supports. Where the plans specify bar couplers, the department will pay for the length of bars as detailed with no deduction or increase for installation of the coupler.

Payment for the Bar Couplers Stainless bid items is full compensation for providing couplers; including bar steel that is part of the coupler and not detailed in the plan; for threading reinforcing bars; for installing and coating the splice; and for supplying and testing 3 couplers.

stp-505-005 (20190618)

### **18. Remove and Salvage Lighting Unit, Item SPV.0060.01.**

#### **A Description**

This special provision describes removing and salvaging street lighting units. This work shall be in accordance with the plans, standard detail drawings, and as hereinafter provided.

#### **B Materials**

Salvage all street lighting materials from the project with the exception of internal pole wiring. Salvaged materials include poles, arms, LED luminaires and associated hardware.

#### **C Construction**

Disconnect and salvage the complete lighting unit from the locations shown in the plans and/or as designated by the Engineer.

Carefully stockpile the complete lighting unit at a location approved by the engineer. Place all equipment on blocks so as not to be in direct contact with the ground. Salvaged items shall be stored and protected from damage until ready for pick up by the City of Jefferson. Any damage to the salvaged materials resulting from the removal and salvaging operations shall be repaired or replaced in-kind at the Contractor's expense. Contact the City of Jefferson Utilities Manager, Scott Adler (920-674-7711), a minimum of 2 business days prior to pick up.

This item includes coordination and incidentals necessary to remove or have removed by the City of Jefferson: street signs and all accessories affixed to the lighting units.

#### **D Measurement**

The department will measure Remove and Salvage Lighting Unit as each individual lighting unit acceptably salvaged and stockpiled.

### **E Payment**

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.01	Remove and Salvage Lighting Unit	Each

Payment is full compensation for removing and salvaging existing lighting unit components, and for furnishing all labor, tools, equipment and incidentals necessary to complete the work.

## **19. Furnish and Install Decorative Lighting Unit, Item SPV.0060.02.**

### **A Description**

This special provision describes furnishing and installing pathway lighting assemblies as shown in the plans. This work shall be in accordance with the plans, standard detail drawings, and as hereinafter provided.

### **B Materials**

#### **B.1 Material Qualifications**

Furnish a complete list of documentation in accordance with section 651.2 and the following requirements. Furnish the following list of documentation detailing the characteristics of the decorative light units:

- Engineer's verification showing the light pole and concrete foundation design criteria
- Graphical depiction showing verification of the light unit arrangement and all accessories are in the correct orientation
- Light pole color and finish sample
- Paint finish durability information
- Cut sheets, warranty information and parts list for all equipment

The information required in the above list must be furnished to the project engineer after letting. The engineer will not approve any materials prior to bid letting. Do not order materials until the engineer approves the list. Prepare one additional copy of all submittals to send to the City of Jefferson Public Works Department.

#### **B.2 Furnish and Install**

Furnish Decorative Lighting Unit as follows:

Lumecon Lighting – Ring of Fire

Model No: LROF-NF-3-1-NW-A-CL-8-X-1-S-B-X-X-X

HAPCO – Arlen 17 Series - Fluted Aluminum Straight Pole

Model No: A7S 12 D 5 – 4 – SF12 – BA – 3" X 2-7/8" O.D tenon

### **C Construction**

In accordance with the plans and section 657 of the standard specifications and manufacturer requirements.

### **D Measurement**

The department will measure Furnish and Install Decorative Lighting Unit as each individual installation acceptably completed.

### **E Payment**

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
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Payment is full compensation for furnishing all materials; furnishing and installing a complete Decorative Lighting Unit as described above; for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

## **20. Removing Existing Timber Piling, Item SPV.0090.01.**

### **A Description**

This special provision describes removing existing timber piling and includes removing, drilling, or coring through existing timber piles in conflict with proposed new piling for abutments and piers at structure B-28-192. The work also includes backfilling the void left after removal with structure backfill. The purpose of this work is to clear the location so the proposed pile may be driven and installed without interference from an existing timber pile.

### **B (Vacant)**

### **C Construction**

Remove any existing timber piling that is in conflict with proposed piling locations. An existing timber pile is in conflict with a proposed pile if the timber pile is within 2.5 proposed-pile diameters (center-center spacing) of a proposed pile. One of the following methods of removal shall be used:

**Direct Pull:** Wrap piling with a choker cable, chain, or other device attached to a crane. Pull the piling vertically, removing the piling from the soil.

**Vibratory Excavation:** Attach a vibratory hammer to a crane and to the existing piling. Vibrate the piling loose. Pull the piling vertically and remove the piling from the soil.

**Coring:** Core through existing timber piles to an elevation that will permit the installation of the proposed pile without interference. Unless directed otherwise, make the diameter of the core hole only as large as required to eliminate the pile conflict.

**Contractor Proposed:** The contractor may propose, in writing, an alternate method of pile removal.

When an existing pile is found to be in conflict with the proposed piling, the contractor shall notify the engineer, and receive approval on the selected removal method prior to beginning any work to remove the timber piling.

Fill any void remaining after pile removal with structure backfill.

### **D Measurement**

The department will measure Remove Existing Timber Piling in length by the linear foot acceptably completed. Measurement will be made along the vertical length of the timber piling removed regardless of the method used. If the coring method is used, the contractor and engineer will agree to a cored depth.

### **E Payment**

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.01	Remove Existing Timber Piling	LF

Payment is full compensation for removing existing timber piling; for providing and placing necessary structure backfill material; for disposing of all material excavated; and for furnishing all labor, equipment, tools, and incidentals necessary to complete the contract work.

## **21. Preparing Topsoil for Lawn Type Turf, Item SPV.0180.01.**

### **A Description**

This special provision describes preparing topsoil for lawn type turf.

**B (Vacant)****C Construction**

Prepare and finish the subgrade so that rocks, concrete debris, or wood larger than 3 inches in diameter are not present within 1 foot of the finished surface of the topsoil.

Remove or break down all clods and lumps in the topsoil by using h1rrows or discs, screening, or other appropriate methods to provide a uniformly textured soil, in which 100 percent of the topsoil passes a one-inch sieve and at least 90 percent passes a No. 10 sieve.

Remove rocks, twigs, clods, and other foreign material that will not break down, and dress the entire surface to present a uniform appearance.

Shape the topsoil so that the horizontal or sloped surface between any two points 10 feet apart does not vary by more than 1 inch. Roll with a turf type roller to a uniform minimum compacted depth of 6 inches.

**D Measurement**

The department will measure Preparing Topsoil for Lawn Type Turf by the square yard, acceptably completed.

**E Payment**

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.01	Preparing Topsoil for Lawn Type Turf	SY

Payment is full compensation for preparing the subgrade and topsoil bed for seed.