

CITY OF URBANA, IOWA



**GENERAL SUPPLEMENTAL SPECIFICATIONS
TO SUDAS STANDARD SPECIFICATIONS**

2021 EDITION

**CITY OF URBANA
102 Capitol Avenue
Urbana, IA 52345**

TABLE OF CONTENTS

DIVISION 1 – GENERAL PROVISIONS AND COVENANTS

Section 1010 – Definitions

1.03 Definitions and Terms

Section 1020 - Proposal Requirements and Conditions

1.03 Quantities and Unit Prices

Section 1040 - Scope of Work

1.10 Disputed Claims for Extra Compensation

1.11 Delays Caused by the Jurisdiction

Section 1080- Prosecution and Progress

1.03 Work Progress and Schedule

1.04 Preconstruction Conference

1.07 Work on Sundays or Legal Holidays

Section 1090 – Measurement and Payment

1.04 Payment for Change Orders

DIVISION 2 – EARTHWORK

Section 2010 – Earthwork, Subgrade and Subbase

1.07 Special Requirements

1.08 Measurement and Payment

2.04 Foundation Materials

DIVISION 4 – SEWERS AND DRAINS

Section 4010 - Sanitary Sewers

2.01 Sanitary Sewer (Gravity Mains)

2.04 Sanitary Sewer Services

3.02 Gravity Sewer Installation

3.06 Sanitary Sewer Service Stubs

Section 4020 – Storm Sewers

1.08 Measurement and Payment

3.02 Pipe Installation

Section 4030 – Pipe Culverts

2.01 Pipe Culverts

3.01 Pipe Culvert Installation

Section 4040 - Subdrains and Footing Drain Collectors

2.02 Type 1 Subdrains (Longitudinal)

DIVISION 5 – WATER MAINS and APPURTENANCES

Section 5010 – Pipe and Fittings

2.02 Bolts for Water Main and Fittings

2.05 Pipeline Accessories

2.07 Water Service Pipe and Appurtenances

3.01 Pipe Installation

- Section 5020 – Valves, Fire Hydrants, and Appurtenances
 - 1.08 Measurement and Payment
 - 2.01 Valves
 - 2.02 Fire Hydrant Assembly
 - 2.03 Appurtenances

DIVISION 6 – STRUCTURES FOR SANITARY AND STORM SEWERS

- Section 6010 - Structures for Sanitary and Storm Sewers
 - 2.11 Additional Materials for Sanitary Sewer Manholes

DIVISION 7 – STREETS AND RELATED WORK

- Section 7010- Portland Cement Concrete Pavement
 - 1.05 Delivery, Storage, Handling, and Salvaging
 - 1.07 Special Requirements
 - 1.08 Measurement and Payment
 - 2.01 Materials
 - 3.02 Pavement Construction
 - 3.07 Quality Control

- Section 7030 - Sidewalks, Shared Use Paths, and Driveways
 - 2.01 Portland Cement Concrete
 - 3.04 PCC Sidewalks, Shared Use Paths, and Driveways

- Section 7040- Pavement Rehabilitation
 - 1.01 Section Includes
 - 1.02 Description of Work
 - 1.08 Measurement and Payment
 - 3.12 Crack and Sealing PCC Pavements (NEW)

DIVISION 8 – TRAFFIC CONTROL

- Section 8040- Traffic Signs and Posts (NEW)
 - 1.01 Section Includes
 - 1.02 Description of Work
 - 1.03 Submittals
 - 1.04 Substitutions
 - 1.05 Delivery, Storage, and Handling
 - 1.06 Scheduling and Conflicts
 - 1.07 Special Requirements
 - 1.08 Measurement and Payment
 - 2.01 Sign Panels
 - 2.02 Sign Posts
 - 2.03 Anchor Post
 - 2.04 Sign Post Extension
 - 2.05 Omni-Directional Soil Stabilizing Anchor Sleeve
 - 2.06 Medium Corner Bolt
 - 3.01 Sign Panels
 - 3.02 Sign Posts
 - 3.03 Sign Post Extension
 - 3.04 Omni-Directional Soil Stabilizing Anchor Sleeve

DIVISION 9 – SITE WORK AND LANDSCAPING
Section 9040 Erosion and Sediment Control
1.08 Measurement and Payment
3.01 SWPPP Preparation
3.02 SWPPP Management

CITY OF URBANA, IOWA
SUPPLEMENTAL SPECIFICATIONS TO SUDAS STANDARD SPECIFICATIONS

These Supplementary Specifications amend or supplement the Statewide Urban Design and Specifications (SUDAS) Standard Specifications and other provisions of the Contract Documents as indicated below. All provisions which are not so amended and supplemented remain in full force and effect.

The terms used in these Supplementary Specifications will have the meanings indicated in SUDAS.

Division 1 – General Provisions and Covenants

Section 1010 – Definitions

1.03 Definitions and Terms

Add the following:

“Substantial Completion. The complete furnishing of work (labor, materials, equipment, and other incidentals) necessary for construction of the improvement and obligations imposed by the Contract except for cleanup of the project site, minor work items or submittal of required paperwork.”

Section 1020 – Proposal Requirements and Conditions

1.03 Quantities and Unit Prices

B.

Add the following:

“When a lump sum bid is requested in the proposal form, and discrepancy occurs between the figures and words in a bidder’s proposal, the words shall govern.”

Section 1040 – Scope of Work

1.10 Disputed Claims for Extra Compensation

A. Basis of Claim for Extra Compensation

Add the following:

“6. Monetary compensation will not be made for time necessary to resolve disputed claims issues.”

1.11 Delays Caused by the Jurisdiction

Add the following:

“The Engineer shall have a minimum of 2 working days upon receipt of written request by the Contractor to respond to issues or claims for extra compensation. The Contractor shall not be entitled to delay claims during this period.”

Section 1080 – Prosecution and Progress

1.03 Work Progress and Schedule

Delete Item B and replace with the following:

“B. After being awarded the contract, the Contractor shall immediately

prepare and submit to the Engineer for review and approval a progress schedule that will ensure the completion of the project within the time specified. Said schedule shall include anticipated controlling items of work, contract specified milestones, and days and/or dates for starting and completing each stage of the work. The schedule shall be submitted to the Engineer prior to scheduling the preconstruction conference. Adequate equipment and forces shall be made available the Contractor to start work immediately upon the Notice to Proceed and to prosecute work to completion according to the schedule and within the time specified.”

1.04 Preconstruction Conference

Delete Item 1.04 and replace with the following:

“1.04 Preconstruction Conference: A preconstruction conference shall be scheduled upon receipt of the work progress schedule from the Contractor. The Contractor and intended subcontractors shall attend and participate in this conference. The Engineer will invite representatives of railroads, utilities and others having responsibilities or interests in the work.”

1.07 Work on Sundays or Legal Holidays

Add the following:

“C. The following are holidays observed by the City of Urbana, in which no work will be allowed except as allowed below:

- New Year’s Day
- Memorial Day (Including weekend)
- Independence Day
- Labor Day (Including weekend)
- Thanksgiving Day
- Day after Thanksgiving
- Christmas Eve Day
- Christmas Day

D. Work on Saturdays, except for contracts specifying mandatory six-day work weeks, requires written authorization by the Engineer and is contingent on City of Urbana Inspector and/or Engineer availability. A written request must be received by noon, to the Engineer, the Thursday prior to the Saturday in which work requiring inspection is to be performed. Work not requiring inspection may be performed with the permission of the City of Urbana.”

Section 1090 – Measurement and Payment

1.04 Payment for Change Orders

Add Item B.4 as follows:

“4. Extra Work Performed by the Subcontractor: General contractor markups for subcontractor work shall be per Iowa DOT Standard Specifications for Highway and Bridge Construction, Current Series, Section 1109.03, B.3.”

Division 2 – Earthwork

Section 2010 – Earthwork, Subgrade, and Subbase

1.07 Special Requirements

Add the following:

“No earthwork shall proceed with or upon frozen materials.”

1.08 Measurement and Payment

D. Topsoil:

1. On-site Topsoil, 2. Compost-amended Topsoil, 3. Off-site Topsoil:

Delete “measurement, payment, and include” sections for each item and replace with the following:

a. Measurement: Measurement will be the plan quantity in cubic yards without final field measurement. Adjustments may be made to the plan quantities if agreed to by both the Engineer and Contractor.

b. Payment: Payment will be at the unit price per cubic yard.

c. Includes: Work includes but is not limited to, stripping, stockpiling, excavating, furnishing, hauling, spreading, and incorporating materials. Overhaul will not be paid.”

2.04 Foundation Materials

D. Subbase

Delete the following items:

1. Special Backfill

Division 4 – Sewers and Drains

Section 4010 – Sanitary Sewers

2.01 Sanitary Sewer (Gravity Mains)

A. Solid Wall Polyvinyl Chloride Pipe (PVC) 8 inch to 15 inch:

Delete Item 1 and replace with the following:

“1: Comply with ASTM D 3034, SDR 26.”

Delete Item 2.b.

B. Solid Wall Polyvinyl Chloride Pipe (PVC) 18 inch to 27 inch:

Delete Items 1 and 2 and replace with the following:

“1: Comply with ASTM D 3034, SDR 26.

2. Pipe stiffness per ASTM D 2412, 115 psi.”

Delete the following:

“C. Corrugated Polyvinyl Chloride Pipe (PVC) 8 inch to 36 inch.

D. Closed Profile Polyvinyl Chloride Pipe (PVC) 21 inch to 36 inch.

H. Vitrified Clay Pipe (VCP) 8 inch to 42 inch.

I. Double Walled Polypropylene Pipe 12 inch to 30 inch.

J. Triple Walled Polypropylene Pipe 30 inch to 36 inch.”

2.04 Sanitary Sewer Services

Delete Item A. 4.

3.02 Gravity Sewer Installation

A. General

Add Item 8 as follows:

“8. Construct waterstops at nominal 800 foot intervals or as directed in the contract documents. Waterstops shall be constructed per Figure 3010.105.”

3.06 Sanitary Sewer Service Stubs

Add the following to Item B:

“All service connections to sewer mains shall be with factory wyes.”

Section 4020 – Storm Sewers

1.08 Measurement and Payment

A. Storm Sewer

1. Trenched

c. Includes

Add the following:

“For storm sewer lines under, or within two feet of the pavement, the granular backfill up to the bottom of the subbase is also include unless otherwise noted.”

3.02 Pipe Installation

B. Trenched:

Add the following to Item 1:

“For storm sewer lines under, or within two feet of the pavement, backfill the pipe trench with granular backfill to the bottom of the subbase. Backfill material shall be any of the following:

- a. Class I material in accordance with 3010, 2.02 A
- b. Porous Backfill in accordance with 4040, 2.04.
- c. Other well-drained granular material allowed by the Engineer.”

Section 4030 – Pipe Culverts

2.01 Pipe Culverts

A. Roadway Pipe Culverts:

Delete this Item and replace with the following:

“**A. Roadway Pipe Culverts:** “All roadway culvert pipe located within the City’s right-of-way shall be concrete pipe as specified in Section 4020. Other storm sewer pipe materials require specific written approval by the Engineer.”

B. Entrance Pipe Culverts:

Replace with the following:

““All storm sewer pipe materials specified for use in the right-of-way in Section 4020 may be used within the right-of-way as entrance pipe culvert..”

3.01 Pipe Culvert Installation

A. Trenched:

Delete Item 2 and replace with the following:

“2. Culvert pipe installed in the embankment shall be Reinforced Concrete Pipe (circular, arched and elliptical) meeting the specifications of Iowa DOT Specification Section 2416.”

Section 4040 – Subdrain and Footing Drain Collectors

2.02 Type 1 Subdrains (Longitudinal)

Add the following to Item D:

“Corrugated PE Tubing shall only be used when specified in the plans or with written permission from the Engineer.”

Division 5 – Water Mains and Appurtenances

Section 5010 – Pipe and Fittings

2.02 Bolts for Water Main and Fittings

Replace this section with the following:

“All bolts for water main fitting shall be Cor Blue T-Bolts.”

2.05 Pipeline Accessories

B. Tracer System:

Replace Item a. 1) c) with the following:

“c) **Insulation Thickness:** 0.045 inches, minimum”

Delete Item a.2

Replace Item b. 1) g) with the following:

“g) **Insulation Thickness:** 0.045 inches, minimum”

Replace Items 5 with the following:

“**5. Tracer Wire Attachment Strap:** Install stainless steel hydrant strap.”

2.07 Water Service Pipe and Appurtenances

C. Corporations, Stops, and Stop Boxes:

Add the following:

“1. Corporation Stop:

- a. 1 inch minimum ball valve with 300 psi rating
- b. Stop inlet with AWWA threads
- c. Manufacturer and Model:
 - 1) Mueller B-25000
 - 2) AY McDonald 74701B
 - 3) Ford F600

2. Curb Stop:

- a. 1 inch minimum ball valve with 300 psi rating
- b. Valve size same as service size

- c. Quarter-turn check
- d. Approved manufacturers:
 - 1) Mueller B-25204
 - 2) AY McDonald 76100

3. Curb Stop Box:

- a. Curb stop box to be equipped with a ½” diameter x 42’ long stainless steel valve operator extension rod.
- b. Approved manufacturers:
 - 1) Mueller H-10314
 - 2) AY McDonald 5601

4. Lids for Curb Stop Boxes in Sidewalk Pavement:

- a. Meter box cover with inset 8 inch locking lid utilizing bronze pentagon bolt.
- b. Cast iron frame, 4 inch deep
- c. Manufacturer and Model:
 - 1) Ford Type A1 meter box cover.
 - 2) AY McDonald Model 74M1A

5. Lids for Curb Stop Boxes in Driveway Pavement:

- a. Cast iron valve box extension
- b. 5-1/4 inch locking lid utilizing bronze pentagon bolt
- c. Manufacturer and Model:
 - 1) Trumbull 367-5036 (extension), 367-5045 (locking lid)
 - 2) Bingham & Taylor Fig. 6016-B 4 inch (extension), Fig. 4904-L (cover)
 - 3) SIP Model 6306 (extension), Model 6355 (locking lid)”

3.01 Pipe Installation

A. General:

Add Item 12 as follows:

“12. Install pipe with Minimum cover as follows:

<u>Nominal Diameter of Water Main</u>	<u>Minimum Cover</u>
10” and smaller	5’-6”
12”-20”	5’-0”
Over 20”	4’-6” ”

Section 5020 – Valves, Fire Hydrants, and Appurtenances

1.08 Measurement and Payment

C. Fire Hydrant Assembly:

3. Includes:

Add: “Tracer wire to the hydrant and the stainless steel strap attached to the hydrant are part of the tracer wire system, which is incidental to the Water Main item unless otherwise noted in the contract documents.”

2.01 Valves

B. Gate Valves

Add Item 4 as follows:

“4. Stem:

- a. Comply with ANSI/AWWA C509.

- b. 2 inch square operator nut.
- c. Non-rising stem.”

**2.02 Fire Hydrant
Assembly**

B. Manufacturers:

Add the following:

- 1. Mueller Super Centurion 250 A-423
- 2. Clow Medallion

C. Features:

Replace Item 6 with the following:

“6. Additional specifications for Jurisdiction.

a. Operating Nut: 1¼” pentagon

b. Pumper Nozzle: 5 inch Storz connection.

- 1) Storz connection shall have brass metal face and hard anodized aluminum Storz ramps and lugs.
- 2) Cap shall have hard anodized Storz ramps and lugs and be connected to the fire hydrant with vinyl coated cable.
- 3) Text “OPEN” and arrow shall be cast on top.

c. Nozzle Threads:

- 1) Pumper Nozzle Thread: 5.7659” Diameter National Standard Thread.
- 2) Hose Nozzle Thread: 3.0686” OD Male, 3.0366” OF Female 7½ tpi.

d. Main Valve Nominal Opening Size: 5¼ inches

e. Nominal Depth of Bury: 6 feet

D. Painting:

Delete Item 2 and replace with the following:

“2. Exterior below grade shall be asphaltic coating. Exterior above grade shall be 9 mil epoxy plus two coats enamel. Color shall be red.”

2.03 Appurtenances

A. Flushing Device (Blowoff):

Add Item 1 as follows:

“1. Nominal Size:

- a. 2 inch blow-off assemblies
- b. Minimum 1 inch air release assemblies”

B. Valve Box:

Replace Item 2 with the following:

“2. Manufacturer: Approved manufactures are:

- a. East Jordan Iron Works
- b. Tyler
- c. Approved equal”

Division 6 – Structures for Sanitary and Storm Sewers

Section 6010 – Structures for Sanitary and Storm Structures

2.11 Additional Materials for Sanitary Sewer Manholes

A. Infiltration Barrier:

Add the following:

“Internal chimney seals shall be used where manhole is located within pavement. External chimney seals shall be used where manhole is located outside of pavement.”

Division 7 – Streets and Related Work

Section 7010 – Portland Cement Concrete Pavement

1.05 Delivery, Storage, Handling, and Salvaging:

Add the following Item:

“E. **Ready-Mix Concrete:** Ready-mix concrete may be used only if the producer is approved per the IDOT Ready Mix Concrete Producer Program. Verification of approval will be required.”

1.07 Special Requirements

Add the following:

- “A. Contractor shall provide a minimum of 24-hour advance notice (excluding weekends and holidays) to the Engineer for pavement pours.
- B. Contractor shall notify Engineer of pavement joint sawing operations which are performed during the hours of 10:00 pm – 7:00 am or other such times and locations where noise is restricted by City of Urbana Ordinance.”

1.08 Measurement and Payment

A. PCC Pavement:

Replace Item 3 with the following:

“3. **Includes:** Unit price includes, but is not limited to, final trimming of subgrade or subbase, integral curb, bars and reinforcement, joints and sealing, surface curing and protection, safety fencing, concrete for rigid headers, box outs for fixtures, pavement smoothness testing, maturity testing, quality control for stringless paving, certified plant inspection (if specified in the contract documents), and obtaining pavement thickness cores if deficiencies are determined in concrete yields.”

I. PCC Pavement Samples and Testing:

Replace Item 3 with the following:

“3. **Includes:** Lump sum price includes, but is not limited to, certified plant inspection and profilograph pavement smoothness measurement (when required by the contract documents). Maturity testing and pavement thickness cores (when requested by the Engineer based on depth or yield checks) are incidental to pavement items.”

Add Item N as follows:

“N. Utility Crossing Reinforcement:

- 1. Measurement:** The Engineer will compute the weight in pounds of reinforcement from the theoretical weight of the nominal sizes and actual lengths of the various sizes of reinforcement shown in the contract documents. No adjustment will be made for required for epoxy coating.
- 2. Payment:** Payment will be made at the unit price per pound of reinforcement.
- 3. Includes:** Unit price includes, but is not limited to, furnishing and installing the reinforcing mat with all ties and supports.”

2.01 Materials

G. Admixtures:

Add the following to Item 3.

“Accelerating admixtures may only be used when approved by the Engineer.”

3.02 Pavement Construction

E. Bar and Reinforcement Placement:

Add Item 5 as follows:

“5. Utility Crossing Reinforcement: When underground utilities cross the pavement with less than 5 feet of cover between the top of the utility pipe and bottom of the proposed pavement, or when specified in the contract documents, reinforcement will be required. Reinforcement shall be #5 epoxy coated bars, placed at 18 inch centers parallel to the centerline of the pavement, centered over the utility pipe. Bars shall be 15’ long unless otherwise noted in the plans and shall be firmly secured on anchored chair supports.

3.07 Quality Control

A. Testing

Add the following:

“Certified Plant Inspection will only be required if specified in contract documents. Approved sources, field tests and maturity tests shall be completed.”

D. Pavement Thickness

Add Item 5 as follows:

“5. Core samples will be required if deficiencies are determined in concrete yields or thickness deficiencies are suspected by the Engineer.”

Section 7030 – Sidewalks, Shared Use Paths, and Driveways

2.01 Portland Cement Concrete:

Delete Item A and replace with the following:

“A. Class C concrete with materials complying with Section 7010. Use coarse aggregate of Class 2 durability or better.”

3.04 PCC Sidewalks, Shared Use Paths, and Driveways

F. Jointing

2. Transverse Contraction Joints:

Add the following item (general):

“Construct a ½ inch expansion joint every 75 feet or at nearest joint for all PCC sidewalks and shared use paths.”

4. Isolation Joints

Delete Item b. and replace with the following:

“b. For a sidewalk constructed with a driveway, install an isolation joint on all sides of the sidewalk through the driveway.”

5. Joint Sealing

Delete Item b. and replace with the following:

“b. All expansion and isolation joints shall be sealed. Trim preformed joint material to ½ inch below the concrete surface. Ensure the joint is clean and dry. Install joint sealant per manufacturer’s recommendations.”

Section 7040 – Pavement Rehabilitation

1.01 Section Includes:

Add Item J as follows:

“J. Crack and Seating PCC Pavement.”

1.02 Description of Work:

Add Item I as follows:

“I. Cracking and seating existing pavement.”

1.08 Measurement and Payment:

Add Item M as follows:

“M. Crack and Seating PCC Pavement:

- 1. Measurement:** Measurement will be in square yards for area cracked and seated. Curb and gutter sections separated from pavement by full depth sawcuts will not be included.
- 2. Payment:** Payment will be made at the unit price per square yard for cracked and seated PCC pavement.
- 3. Includes:** Unit price includes, but is not limited to, full depth sawcutting at limits as described on plans, removal and disposal of debris, and furnishing and application of water as necessary.”

ADD Section 3.12 Crack and Seating PCC Pavement as follows:
“3.12 Crack and Seating PCC Pavement

- A. Before cracking, remove all asphalt and other bituminous material existing on the pavement surface from the area to be cracked. Removal of full depth HMA patches is not required. Remove existing joint sealers.
- B. Locate all utilities within affected pavement areas. Saw full depth along perimeter of existing utility boxouts and create boxouts around utility fixtures to be separated from pavement.
- C. Separate curb and gutter sections from pavement at distance designated with full depth saw cut.
- D. Crack pavement with equipment capable of producing desired cracking pattern by providing a broad striking surface. Do not use equipment that punches holes in the pavement or results in excessive spalling of otherwise sound sections. A blade or spade type breaker is recommended.
 - 1. Crack pavement to produce full depth, transverse hairline cracks at a nominal spacing of 1 ½ - 3 feet. Avoid inducing cracks closer than 2 ½ feet from an existing crack or joint or deteriorated concrete. Prevent the formation of a continuous longitudinal crack.
 - 2. A section of approximately 100 feet in length shall be designated as a test section in which varying energy and striking patterns of the breaker are applied to determine a satisfactory cracking pattern. The approved method shall be used for the remainder of the project, unless the Engineer determines that a satisfactory pattern is no longer being produced.
 - 3. Following cracking of the test section, apply water to dampen the pavement to enhance the visual determination of the cracking pattern. Water shall be applied as directed by the Engineer during cracking operations to verify that the specified cracking pattern is being maintained.
 - 4. Do not operate cracking equipment on a bridge or within 3 feet of a fixed object.
- E. Seat the cracked pavement by rolling with a pneumatic rubber tired roller.
 - 1. Roller shall have four rubber tires, equally spaced across the full width and mounted in line on a rigid steel frame such that all wheels carry equal loads regardless of surface irregularities. Roller tires shall be capable of satisfactory operation at a minimum inflation pressure of 100 psi. Tires may contain liquid.
 - 2. Roller shall have a weight body suitable for ballasting to a gross load of 50 tons and ballast shall allow gross roller weight to be readily determined and controlled to maintain a gross roller weight of 50 tons.

3. Roller shall be weighted to complete seating on one pass to provide aggregate Interlock at the cracks with minimal damage.
- F. After Engineer's approval of seating, pavement surface shall be cleaned of loose material by hand tools, brooming and/or light air blasting. The Engineer will determine if patching is necessary prior to HMA resurfacing.
- G. HMA resurfacing shall be per SUDAS Section 7020.

Division 8 – Traffic Control

ADD new Section 8040 – TRAFFIC SIGNS AND POSTS

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Traffic Signs
- B. Traffic Sign Posts
- C. Removal of Signs and Posts

1.02 DESCRIPTION OF WORK

Includes requirements for traffic sign panels and posts for installation.

1.03 SUBMITTALS

Comply with Division 1 – General Provisions and Covenants.

1.04 SUBSTITUTIONS

Comply with Division 1- General Provisions and Covenants.

1.05 DELIVERY, STORAGE AND HANDLING

Comply with Division 1- General Provisions and Covenants.

1.06. SCHEDULING AND CONFLICTS

Comply with Division 1- General Provisions and Covenants.
Notify the Engineer at least 72 hours in advance of all removals.

1.07 SPECIAL REQUIREMENTS

None.

1.08 MEASUREMENT AND PAYMENT

A. Sign Panels

1. **Measurement:** Per square foot of sign area.
2. **Payment:** Per unit price per square foot of sign area as installed.

B. Sign Posts

1. **Measurement:** By count of sign posts furnished and installed.
2. **Payment:** At unit price each.

3. **Includes:** All post sections, anchor, and associated hardware for installation of posts and erection of signs.

C. Removal of Sign

1. **Measurement:** Each sign and post assembly will be counted.
2. **Payment:** Payment will be at the unit price for each sign and post assembly.
3. **Includes:** Unit price includes, but is not limited to, removal, disposal, and backfilling as necessary.

D. Removal and Reinstallation of Sign

1. **Measurement:** Each reinstalled sign and post assembly will be counted.
2. **Payment:** Payment will be at the unit price for each reinstalled sign and post assembly.
3. **Includes:** Unit price includes, but is not limited to removal, protection, and reinstallation, including furnishing and installing a new anchor sleeve. If new posts are specified in the plans they will be paid for separately. If new posts or sign panels are not specified but necessary due to damage by the Contractor, they shall be furnished and installed at no cost to the Owner.

E. Removal and Salvage of Sign

1. **Measurement:** Each sign and post assembly will be counted.
2. **Payment:** Payment will be at the unit price for each sign and post assembly removed.
3. **Includes:** Unit price includes, but is not limited to, removal, protection, salvage as designated in the contract documents, and backfilling as necessary.

PART 2 – PRODUCTS

2.01 Sign Panels

- A. Fabricate signs from sheet aluminum in accordance with Section 4186.02 A. of the Iowa Department of Transportation Standard Specifications.
- B. Retroreflective Sheeting shall be Type XI in accordance with Section 4186.03 of the Iowa Department of Transportation Standard Specifications and ATSM D 4956.
- C. Sign fabrication in accordance with Section 4186.06 of the Iowa Department of Transportation Standard Specifications.
- D. Fastening accessories in accordance with Section 4186.09 A. of the Iowa Department of Transportation Standard Specifications.

2.02 Sign Posts

- A. Perforated Square Steel Tube, 2 inches square with 14- gauge wall, 11 feet in length.
- B. Steel in conformance with ASTM A1011, Grade 50.
- C. Average minimum yield strength after cold-forming: 60,000 psi.
- D. Corner welded, scarfed, zinc coated.
- E. Chromate conversion coating, clear organic polymer topcoat.
- F. Galvanized interior and exterior.

2.03 Anchor Post

- A. Perforated Square Steel Tube, 2 ¼ inch square, 12- gauge wall, 48 inch in length.
- B. Steel in conformance with ASTM A1011, Grade 50.
- C. Average minimum yield strength after cold-forming: 60,000 psi.
- D. Corner welded, scarfed, zinc coated.

- E. Chromate conversion coating, clear organic polymer topcoat.
- F. Galvanized interior and exterior.

2.04 Sign Post Extension

- A. Perforated Square Steel Tube, 1 ¾ inch square, 14- gauge wall, 30 inch in length.
- B. Steel in conformance with ASTM A10111, Grade 50.
- C. Average minimum yield strength after cold-forming: 60,000 psi.
- D. Corner welded, scarfed, zinc coated.
- E. Chromate conversion coating, clear organic polymer topcoat.
- F. Galvanized interior and exterior.

2.05 Omni-Directional Soil Stabilizing Anchor Sleeve

- A. Perforated Square Steel Tube, 2 ½ inch square, 12- gauge wall, 18 inch in length.
- B. Steel in conformance with ASTM1011, Grade 50.
- C. Average minimum yield strength after cold-forming: 60,000 psi.
- D. Corner welded, scarfed, zinc coated.
- E. Chromate conversion coating, clear organic polymer topcoat.
- F. Galvanized interior and exterior.
- G. Weld 4, 4 "x 12", 10- gauge triangular wing plates to each corner of the tube at 45 degree angles at 2 1/2inches from top of tube.

2.06 Medium Corner Bolt

- A. 5/16 inch diameter, 2 bend truss head, 18 grade.
- B. Steel in conformance with ASTM A307.
- C. Zinc plated in conformance with ASTM B633.

PART 3 – EXECUTION

3.01 Sign Panels

- A. Erect in accordance with Section 2524.03.B.1. of Iowa Department of Transportation Standard Specifications.

3.02 Sign Posts

- A. Install posts and anchors in accordance with Section 2524.03.B.3 of Iowa Department of Transportation Standard Specifications.

3.03 Sign Post Extension

- A. For use to mount street name signs above stop signs.

3.04 Omni-Directional Soil Stabilizing Anchor Sleeve

- A. For use in stabilizing sign assemblies which include multiple signs.
- B. Sleeves shall slide over the anchor stubs and line up with the top of the anchor stub.

END OF SECTION

Division 9 – Site Work and Landscaping

Section 9040 – Erosion and Sediment Control

1.08 Measurement and Payment

A. Stormwater Pollution Prevention Plan (SWPPP):

1. Preparation:

Delete Item c and replace with the following:

“c. Includes: Lump sum price includes, but is not limited to, development of a SWPPP by the Contractor meeting local and state agency requirements.”

2. Management:

Delete Item c and replace with the following:

“c. Includes: Lump sum price includes all work required to comply with the administrative provisions of the Iowa DNR NPDES General Permit No.2; including record keeping, documentation, and updating the SWPPP. Item also includes weekly inspections required to satisfy the requirements of General Permit No. 2, unless otherwise specified in the contract documents.”

3.01 SWPPP Preparation:

Delete Items D and E.

3.02 SWPPP Management:

Delete Item G.

**End of Section
Adopted 09/14/2021
City of Urbana Ordinance #205**