

**Bid No. 25-26**

**2025 Alley and Sidewalk Improvements**

**ADDENDUM No. 1**

**May 9, 2025**

Any and all changes to the Bid are valid only if they are included by written addendum to all potential respondents, which will be emailed prior to the Bid due date to all who are known to have received a complete Bid Document. Each respondent must acknowledge receipt of any addenda by indicating in its Bid. Each respondent, by acknowledging receipt of addenda, is responsible for the contents of the addenda and any changes to the bid therein. Failure to acknowledge receipt of addenda may cause the Bid to be rejected. If any language or figures contained in this addendum are in conflict with the original Bid Document, this addendum shall prevail.

This addendum consists of the following:

1. Addendum No. 1 is attached and consists of a total of sixteen (16) pages, including this cover sheet.

Please feel free to call 847-866-2971 or email [cstuart@cityofevanston.org](mailto:cstuart@cityofevanston.org) with any questions or comments.

Sincerely,

Cheryl Stuart  
Purchasing Specialist

**Bid No. 25-26**

**2025 Alley and Sidewalk Improvements**

**ADDENDUM No. 1**

**May 9, 2025**

This addendum forms a part of the Specifications and Bid Documents for Bid #25-26 and modifies these documents. This addendum consists of the following revisions:

**QUESTIONS**

1. **QUESTION:** Would you be able to provide the Schedule of Prices for this bid in excel format for our use in bidding?

**RESPONSE:** Yes, please see Attachment 2 for the Revised Schedule of Prices in Excel format.

**REVISED PROJECT PLAN SET**

- **DELETE SHEETS 20, 21, 22, and 23 FROM THE PROJECT PLAN SET AND REPLACE THEM WITH THE ATTACHED REVISED PLAN SHEETS 20, 21, 22, AND 23.**

**REVISED SCHEDULE OF PRICES IN EXCEL FORMAT**

**ATTACHMENT 1**

- **EXHIBIT A - BID FORM REVISED SCHEDULE OF PRICES**

**DELETE THE FOLLOWING:**

**EXHIBIT A – BID FORM  
1.11 UNIT PRICING LIST**

**PEDESTRIAN CROSSINGS**

<b>Item No.</b>	<b>Item</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Price</b>	<b>Cost</b>
1	EARTH EXCAVATION	CU. YD.	5		
2	TOPSOIL FURNISH AND PLACE 3"	SQ. YD.	100		

3	SODDING SALT TOLERANT	SQ. YD.	100		
4	AGGREGATE BASE COURSE, TYPE B 4"	SQ. YD.	230		
5	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	10		
6	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ. FT.	550		
7	DETECTABLE WARNINGS	SQ. FT.	100		
8	PAVEMENT REMOVAL	SQ. YD.	185		
9	COMBINATION CURB AND GUTTER REMOVAL	FOOT	40		
10	SIDEWALK REMOVAL	SQ. FT.	395		
11	CLASS B PATCHES, SPECIAL 9" HES	SQ. YD.	15		
12	FRAMES AND GRATES TO BE ADJUSTED	EACH	1		
13	CONCRETE CURB, TYPE B	FOOT	355		
14	COMB. CONC. CURB & GUTTER, TYPE B6.12	FOOT	180		
15	CONCRETE MEDIAN SURFACE 4"	SQ. FT.	1,005		
16	CONSTRUCTION LAYOUT	LSUM	1		
17	STREET SWEEPING	EACH	4		
18	DOUBLE-SIDED PEDESTRIAN CROSSWALK SYSTEM	EACH	8		
19	SIGN PANEL - TYPE 1	SQ. FT.	130		
20	RELOCATE SIGN ASSEMBLY - TYPE A	EACH	1		
21	REMOVE AND RETURN SIGN PANEL ASSEMBLY	EACH	2		
22	TELESCOPING STEEL SIGN SUPPORT	FOOT	120		
23	TUBULAR FLEXIBLE DELINEATOR	EACH	8		
24	THERMOPLASTIC PAVEMENT MARKING LINE - 12"	FOOT	370		
25	THERMOPLASTIC PAVEMENT MARKING LINE - 8"	FOOT	200		
26	THERMOPLASTIC PAVEMENT MARKING LINE - 6"	FOOT	150		
27	THERMOPLASTIC PAVEMENT MARKING LINE - 4"	FOOT	265		
28	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ. FT.	300		
<b>PEDESTRIAN CROSSINGS TOTAL:</b>					

- **AND REPLACE IT WITH:**

**PEDESTRIAN CROSSINGS**

<b>Item No.</b>	<b>Item</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Price</b>	<b>Cost</b>
1	EARTH EXCAVATION	CU. YD.	5		
2	TOPSOIL FURNISH AND PLACE 3"	SQ. YD.	100		
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14	COMB. CONC. CURB & GUTTER, TYPE B6.12	FOOT	180		
15	CONCRETE MEDIAN SURFACE 4"	SQ. FT.	1,005		
16	CONSTRUCTION LAYOUT	LSUM	1		
17	STREET SWEEPING	EACH	4		
18	SOLAR-POWERED ASSEMBLY (COMPLETE)	EACH	4		
19	RELOCATE SIGN ASSEMBLY - TYPE A	EACH	1		
20	REMOVE AND RETURN SIGN PANEL ASSEMBLY	EACH	2		
21	TUBULAR FLEXIBLE DELINEATOR	EACH	8		
22	THERMOPLASTIC PAVEMENT MARKING LINE - 12"	FOOT	370		
23	THERMOPLASTIC PAVEMENT MARKING LINE - 8"	FOOT	200		
24	THERMOPLASTIC PAVEMENT MARKING LINE - 6"	FOOT	150		

25	THERMOPLASTIC PAVEMENT MARKING LINE - 4"	FOOT	265		
26	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ. FT.	300		
<b>PEDESTRIAN CROSSINGS TOTAL:</b>					

**CONTRACT SPECIFICATIONS – SPECIAL PROVISIONS**

- ***DELETE THE FOLLOWING SECTION:***

**DOUBLE-SIDED PEDESTRIAN CROSSWALK SYSTEM**

This work shall include all materials, labor, and equipment required to install a complete Rectangular Rapid-Flashing Beacon (RRFB) assembly manufactured by TAPCO at the locations indicated on the plans. Each Double-Sided Pedestrian Crosswalk System shall include:

- Back-to-Back RRFB Light Bar Warning Assembly
- Solar-Powered Control Cabinet with Flash Controller and Wireless Receiver
- 30W Solar Panel
- 44Ah Batteries (2x22Ah)
- Yellow Bulldog Push Button
- Aluminum Pole Base (Black)
- 4-1/2" O.D. x 13' Aluminum Pole (Black)
- Back-to-Back 30"x30" W11-2 Static Signs
- Back-to-Back 24"x12" W16-7P Static Signs
- Concrete Foundations installed per manufacturer's instructions
- Any other hardware or fittings required to install the system per the manufacturer's instructions

Upon activation by pedestrian push button, the RRFB controllers shall activate all RRFB Light Bars in the crosswalk system simultaneously. RRFB Light shall flash synchronously and then cease operation after a programmable timeout.

**Control Cabinet, Top of Pole**

- Shall be NEMA 3R Type
- Shall be 15-3/8" tall x 22-2/3" wide x 5-1/5" deep and constructed of minimum 0.090" thick aluminum.
- Shall be powder coated grey.
- To promote airflow for internal components, the cabinet shall be vented with screening included on all vents to prevent insects and other foreign matter from entering.

- To facilitate maintenance or repairs, the cabinet shall include a removable control panel to which all control circuit components either mount or connect.
- For easy installation on a wide range of pole sizes and types, the cabinet shall utilize a universal top of pole mounting bracket. The mounting bracket positions the cabinet at a fixed 45 degree angle.
- To ensure a secure mount to the supporting post, a U-Bolt kit will be included that accommodates round poles 2-3/8" up to 4.5" pole, as well as square poles from 2" to 2-1/2".
- To prevent corrosion, all materials used in the construction or mounting of the control cabinet shall be either aluminum or stainless steel. Anti-vandal mounting hardware shall be available as an option.

### **RRFB Controller and Integrated Solar Charge Controller**

The RRFB Programmable Flash Controller is housed within the NEMA 3R type Control Cabinet, and shall:

- Include integrated constant-current LED drivers with a minimum of two-channel output for driving one or two RRFB units.
- Output the following "WW+S" flash pattern during each of its 800 millisecond flash periods:
  - Left LED illuminates for approximately 50 milliseconds
  - Both LEDs stay dark for approximately 50 milliseconds
  - Right LED illuminates for approximately 50 milliseconds
  - Both LEDs stay dark for approximately 50 milliseconds
  - Left LED illuminates for approximately 50 milliseconds
  - Both LEDs stay dark for approximately 50 milliseconds
  - Right LED illuminates for approximately 50 milliseconds
  - Both LEDs stay dark for approximately 50 milliseconds
  - Both LEDs illuminate for approximately 50 milliseconds
  - Both LEDs stay dark for approximately 50 milliseconds
  - Both LEDs illuminate for approximately 50 milliseconds
  - Both LEDs stay dark for approximately 250 milliseconds
- Automatically adjust the LED drive current control to optimize brightness for the ambient lighting conditions determined by the phototransistor input.
- Have the LED drive outputs reach the full output current as programmed within the duration of the 100ms on-time.
- Include an integrated Real Time Clock (RTC) with on-board battery backup.
- Have the capability of RS232 communication for programming with Windows-based software.
- Be capable of solar charging the system battery, including a completely drained battery pack.

- Shall automatically provide Low Voltage Disconnect (LVD) to protect batteries when
- needed.
- Shall automatically provide Load-Reconnection once battery levels have been restore to an acceptable value.
- Include a minimum of two General Purpose Inputs and Outputs (GPIO).
- Provide Lamp Out feature if web enabled through optional modem.
- Be internally housed in its own IP67 type enclosure.
- Be independently replaceable of other control panel components.
- Be able to monitor internal temperature.
- Operate between the temperatures of -40° to +176°F (-40° to +80°C).

#### **BlinkerBeam® Wireless Transceiver**

- Shall operate wirelessly at 900 Mhz, utilizing Frequency Hopping Spread Spectrum (FHSS) technology to minimize the effects of external RF interference.
- Shall seamlessly integrate with the controller to ensure sequential activation of other radio-equipped devices in the system.
- Shall include an integrated LCD and joystick button for setup and troubleshooting, including readouts of flash duration (timeout), battery conditions, and LED testing functionality.
- Shall include two LED indicators for status and troubleshooting.
- Shall be capable of operating as a Transmitter or Receiver.
- All Receiver nodes can repeat a signal a single time.
- Shall be capable of providing site-survey data for verification of signal strength between network devices.
- Shall include network-wide modification of sign controller settings and output durations, using programmability from any networked transceiver without the use of additional equipment or software.
- Shall synchronize the system components to activate the indications within 120msec of one other and remain synchronized throughout the duration of the flash (timeout) cycle.
- Shall operate on the license-free ISM band.
- Shall comply with part 15 of FCC rules.
- Shall operate from 3.3VDC to 15VDC.
- Shall be replaceable independently of other components.

#### **Solar Power, 30 Watt**

- Solar Panel shall be constructed of an anodized aluminum frame, high-transmission 1/8" tempered glass, with silicon cells encapsulated in double-layer EVA, and with a white polymer backing.

- The Solar Panel shall be affixed to the top of the top-of-pole cabinet that is mounted at a fixed 45 degree angle.
- To ensure maximum solar insolation regardless of installation location, the post top mounting system shall provide 360° of rotational direction adjustment when mounted on round pole, and upon installation, must be oriented with the collector facing South. When used on a square pole application, the pole should be mounted with a square side facing south.
- The solar panel must be IEC61215 and TUV certified. The solar panel shall operate at 12VDC nominal with a maximum output rating of 30 watts.
- The solar panel specifications:
  - Overall Size: 22.44" x 14.17"
  - Maximum power voltage: 17.37 VDC
  - Maximum power current: 2.08 A
  - Short circuit current: 2.19 A
  - Open circuit voltage: 20.04 VDC
  - Operate from -40° to +185°F (-40° to +85°C)

#### **Battery Power, 44Ah**

- Shall be achieved using quantity two batteries of 22Ah each
- Shall be housed inside the Control Cabinet.
- Shall have a nominal output voltage of 12 VDC.
- Shall be rechargeable type Absorbent Glass Mat.
- Shall be sealed and spill-proof.
- Shall be maintenance free.
- Shall be U.L. recognized.
- Battery shall be replaceable independently of other components.
- Shall be fused for short circuit protection.

#### **RRFB-XL2™ Light Bar**

- The RRFB-XL2™ Light Bar shall be in conformance with all applicable FHWA MUTCD standards and guidelines, and shall meet or exceed the requirements specified in FHWA Memorandum IA-21, Interim Approval for Optional Use of Pedestrian-Actuated Rectangular Rapid Flashing Beacons at Uncontrolled Marked Crosswalks.
- Shall house two rapidly and alternately flashing rectangular yellow LED array vehicle indications and one side-mounted yellow LED array pedestrian indication. The LED arrays shall be designed, located and operated in accordance with the detailed requirements as specified on the plans.
- When activated, the RRFB-XL2™ Light Bar shall have 75 periods of flashing per minute and shall have alternating and simultaneous flash operations following the “WW+S” flash pattern.

- Active vehicle indications shall be visible at distances over 1000 feet during the day and over 1 mile at night.
- The light intensity of the vehicle indications shall meet the minimum specifications of Society of Automotive Engineers (SAE) standard J595 (Directional Flashing Optical Warning Devices for Authorized Emergency, Maintenance, and Service Vehicles) dated January 2005. Manufacturer Certification of Compliance shall be provided upon request.
- Have a housing that shall be constructed of durable, corrosion-resistant powder-coated aluminum with stainless steel vandal resistant fasteners.
- Have enclosed components that are modular in design whereby any component can be easily replaced without having to uninstall the RRFB assembly.
- Include mounting hardware for either single or back-to-back pole mounting and shall be universal to the pole type.
- Have two vehicle RRFB indications that is approximately 7" wide x 2.8" high, each with 8 yellow LEDs in its array and one Pedestrian indication that is approximately 0.5" wide x 1.7" high with 8 individual yellow LEDs in its array.
- Have overall dimensions of approximately 23.6" wide x 3.8" high x 1.4" deep.

### **Bulldog Push Button**

- Shall be a Polara Bulldog model.
- Shall have an activation indicator LED
- Shall operate as a normally open (n/o) circuit.
- Must be ADA Compliant.
- Shall operate from -30° to +165°F (-34° to +74°C)
- Shall be provided with all necessary mounting hardware, wiring and associated ADA signage.

### **Warning Static Sign**

- Each static sign face shall be constructed on a 0.080" thick 5052-H32 aluminum and screened onto 3MTM Diamond Grade™ DG3 Reflective sheeting of specified color.
- Shall have MUTCD compliant sign legend, as dictated by the requirements.
- Shall have two holes for mounting to a post or pole.
- Includes pole mounting hardware.

### **Pole Package**

- Pole shall be a standard specified outer diameter aluminum pedestal pole.
- Pole shall be supplied with one end threaded for easy installation into a pedestal base.

- Pole shall be 13' - 15' length Schedule 40 pipe raw aluminum as required
- Pedestal Base shall be TP-358 cast aluminum that mounts on a concrete foundation attached by four internal anchor bolts imbedded in the foundation.
- Pedestal Base shall have a large 8.5" square hand hole cover allowing access to the interior.

The system shall be installed in strict conformance with the manufacturer's recommendations. Proper functioning of the sign assemblies shall be verified by the resident engineer prior to acceptance of the work.

This work shall be paid for at the contract unit price per EACH for DOUBLE-SIDED PEDESTRIAN CROSSWALK SYSTEM.

- ***AND REPLACE IT WITH:***

#### **SOLAR-POWERED ASSEMBLY (COMPLETE)**

Description.

This work shall consist of furnishing and installing the solar-powered assembly complete with LED sign, solar panel, battery pack with charger, LED driver and wireless communications equipment, traffic signal post, warning signs and plaques attached to a breakaway post or other approved mounting system as shown in the plans and as specified by the Engineer. This will also include all signs shown on the plan sheets. This item is the entire system per intersection (two solar-powered systems, advanced warning signs, and in-street signs, as shown on the plan sheets.)

Materials.

All materials furnished, assembled, fabricated, or installed shall be corrosion resistant. All mounting hardware shall be Type 304 stainless steel.

All components shall be manufactured and assembled as a complete system rated for at least 300 cycles per day. The solar-powered system shall be an easy to install, fully self-contained, weather, corrosion, and vandal-resistant unit with a premium grade UV-resistant head. The system shall be power autonomous without the need for an external power supply. The system shall have an operating temperature range of -20 degrees to 122 degrees Fahrenheit (-15 degrees to 50 degrees Celsius).

The Contractor shall furnish and install two direction (back-to-back) 30"x30" W11-2 LED Signs with 24"x12" W16-7P Static Signs mounted to each post as indicated on the plans. All equipment and hardware required to mount the LED and solar engine to the assembly are included in the cost of this item. The LED housing shall be minimum 1/8" thick aluminum.

The batteries shall be sealed, maintenance free and field-replaceable. The battery pack shall have a minimum rated lifespan of 3 years.

The solar engine shall be the high-efficiency type and rated for at least 20 watts. The system shall have the capacity to operate the LEDs continuously for 30 days without solar charging and have automatic light control to provide useful light during extreme conditions that prevent charging over an extended period of time.

Each flashing LED unit shall be activated by one ADA-compliant pedestrian push button. The push button and push button sign shall be included in the cost of the Assembly.

All wiring for connecting the pedestrian push buttons, flasher unit, solar power unit, and other installed components shall be included in the cost of SOLAR – POWERED ASSEMBLY (COMPLETE).

At each intersection, all installed solar powered assemblies must communicate wirelessly using an unlicensed radio band so as to simultaneously commence operation of their alternating flashing indications and cease operation simultaneously. The communication equipment shall comply with FCC requirements and the vendor representative shall field test the equipment prior to placing the units in operation.

The LED assembly shall be installed and mounted as indicated in the plans, using a Concrete Foundation Type A. The concrete foundation A is to be included in the cost of this system. A galvanized steel traffic signal post meeting the requirements of Section 875 of the Standard Specifications, of the diameter and length recommended by the LED manufacturer, up to a maximum length of 18 feet. All posts shall be steel and hot dipped galvanized. All posts and bases shall be black.

A post shroud of suitable size for the foundation and post, shall be included in the assembly for protection of the base plate. The shroud shall be of sufficient strength to deter pedestrian and vehicular damage. The shroud shall be constructed and designed to allow air to circulate throughout the post but not allow infestation of insects or other animals, and such that it is not hazardous to probing fingers and feet. All mounting hardware shall be stainless steel.

Each assembly shall include signage as shown on the plans. The signs shall be in accordance with Section 720 of the Standard Specifications.

The entire system shall have a minimum 3-year warranty.

The supplier shall be **TAPCO Inc.**

#### Installation.

The solar powered assembly and system shall be installed in strict accordance with the manufacturer's recommendations, applicable portions of Article 880.03 of the Standard Specifications, as shown on the Plans, and as directed by the Engineer.

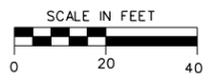
Mounting of the hardware to the foundation shall be in accordance with the Standard Specifications modified herein and shall follow all manufacturer recommendations. The traffic signal post and shroud shall be installed on the foundation in accordance with the manufacturer recommendations.

The LED and solar engine shall be attached to the structure using rigid galvanized steel conduit, stainless steel straps, manufacturer recommended mounting brackets, and U-bolts.

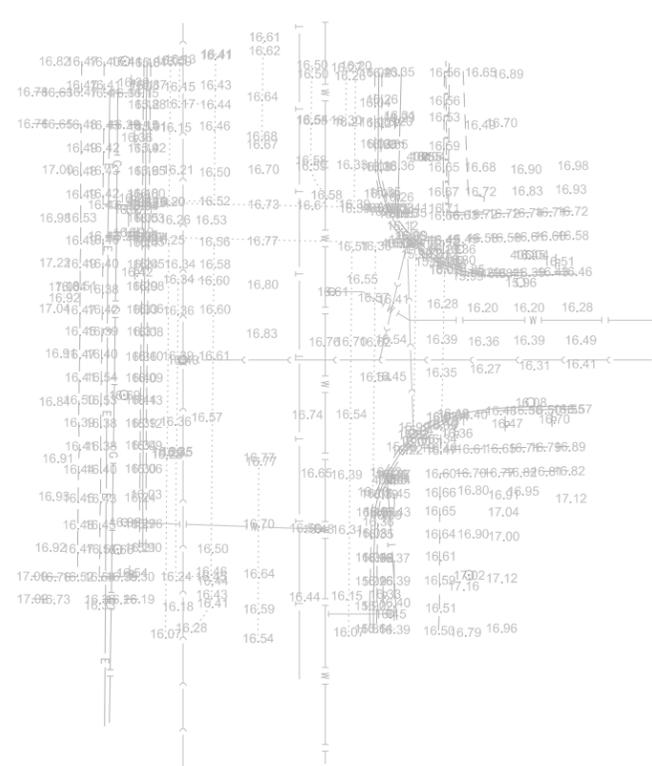
The solar panel shall be installed at the highest point on the assembly structure, or as directed by the Engineer, and away from the travelled way. The solar engine shall be installed at a 45-degree angle facing the equator (due south) with full unobstructed solar exposure for optimum performance of the system, or as recommended by the manufacturer and directed by the Engineer.

#### Basis of Payment.

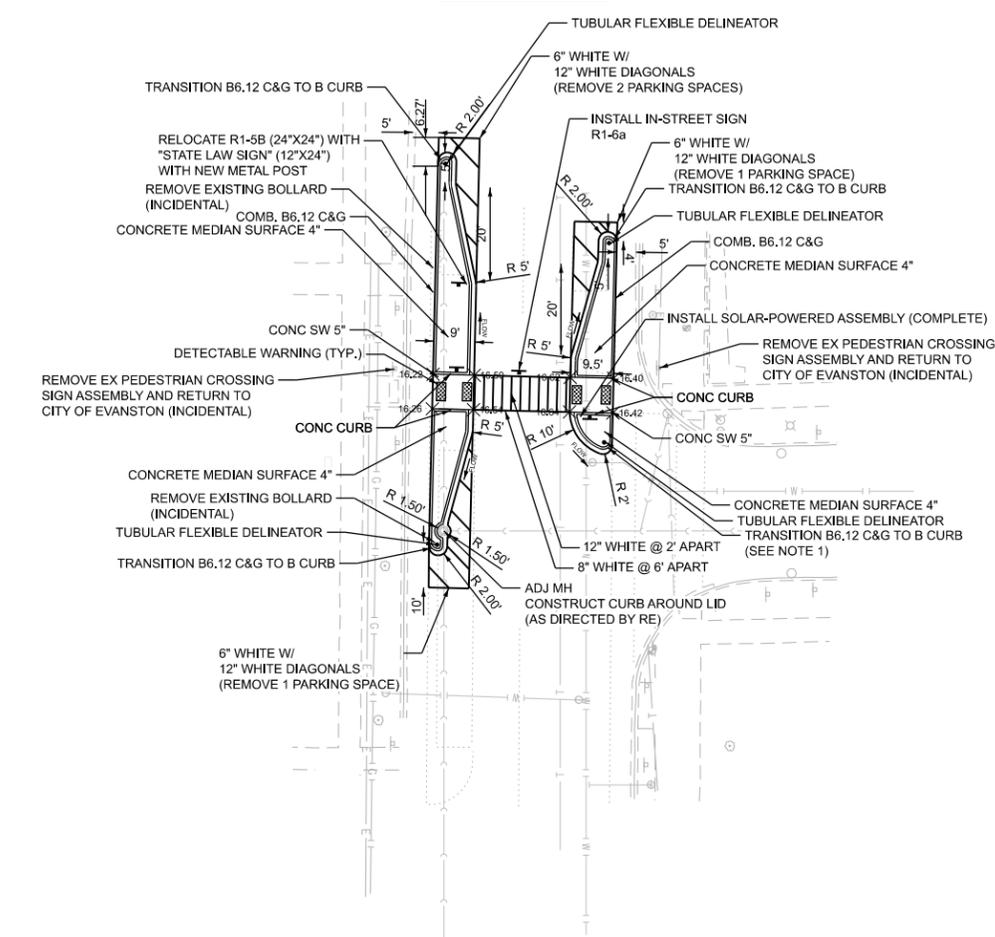
This item will be paid at the contract unit price each for SOLAR-POWERED ASSEMBLY (COMPLETE), which shall be payment in full for furnishing and installing the support structure finished according to the plans, LED's, solar power equipment, wiring, mounting hardware, control or circuit board hardware, housings, communications equipment, post, shroud, warning/in-street signs and plaques and all other materials, labor, hardware, concrete foundation, and connections required to achieve proper operations of the LED assembly to the satisfaction of the Engineer.



**EXISTING**



**PROPOSED**



- NOTES:
- ALIGN SOUTH FACE OF CURB WITH MONROE ST FACE OF CURB
  - CURB AND GUTTER TRANSITION TO B-CURB TO BE CONSTRUCTED IN 1 POUR.

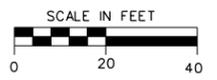
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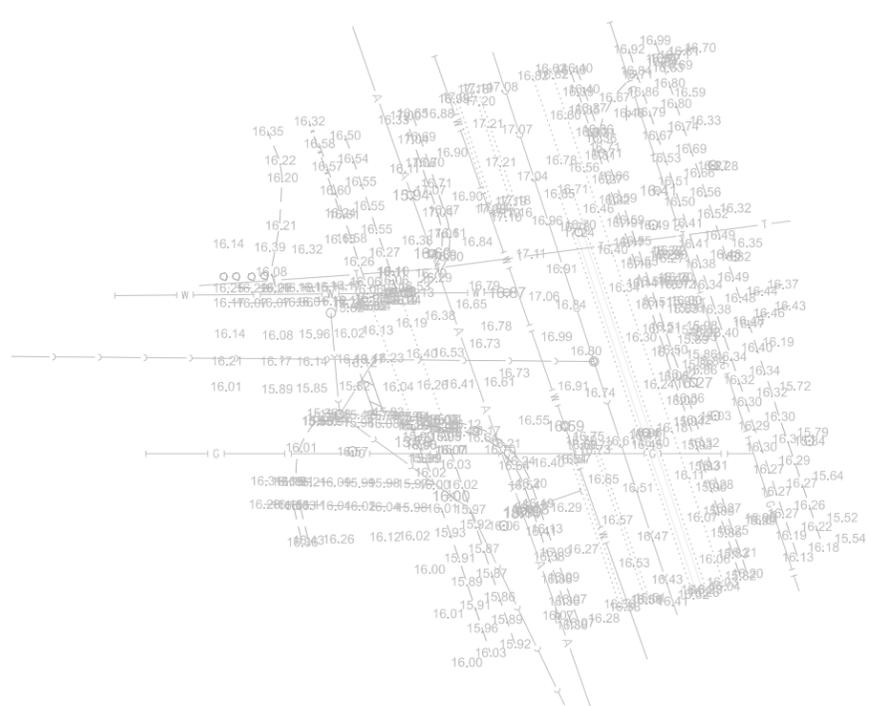
4	
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1	ADDENDUM 1
DATE	NO.
5/8/2025	1
	REVISION

**2025 ALLEY AND SIDEWALK IMPROVEMENTS  
DODGE AND MONROE PEDESTRIAN CROSSING**

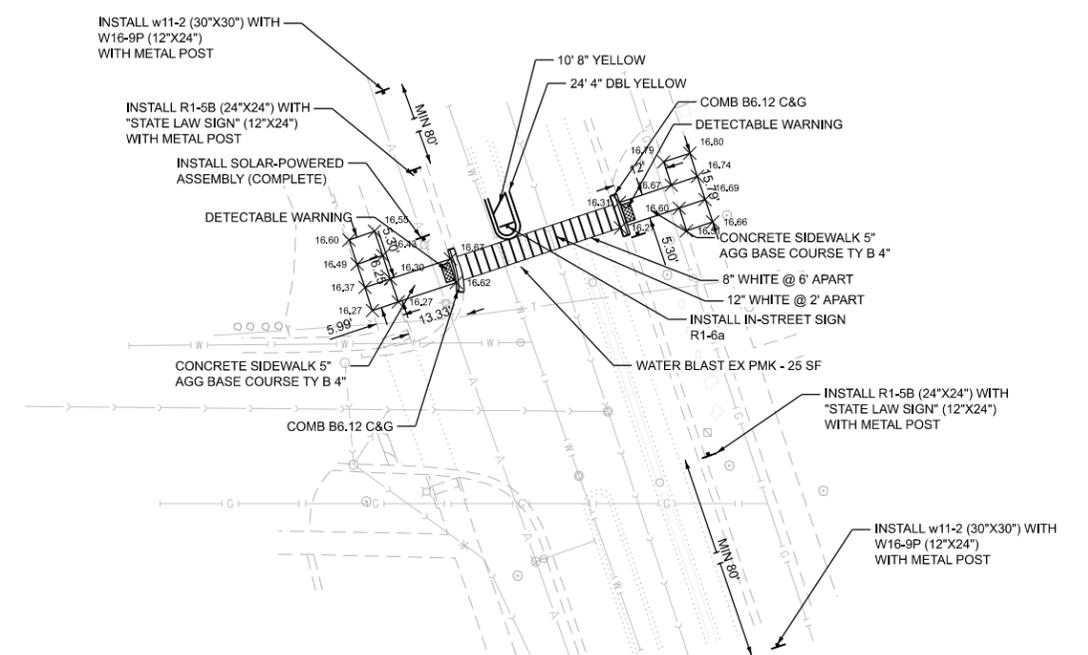
SCALE	SA 1532, SA 1533	PROJECT NUMBER: SA 1534	ISSUED FOR: CONSTRUCTION	DESIGNED BY: MH	SHEET <b>20 OF 35</b>
HORIZONTAL	1"=20'	BID NUMBER: 25-26	DATE: 04/23/2025	DRAWN BY: DS	
VERTICAL	NA	CHECKED BY: TPD			



**EXISTING**



**PROPOSED**



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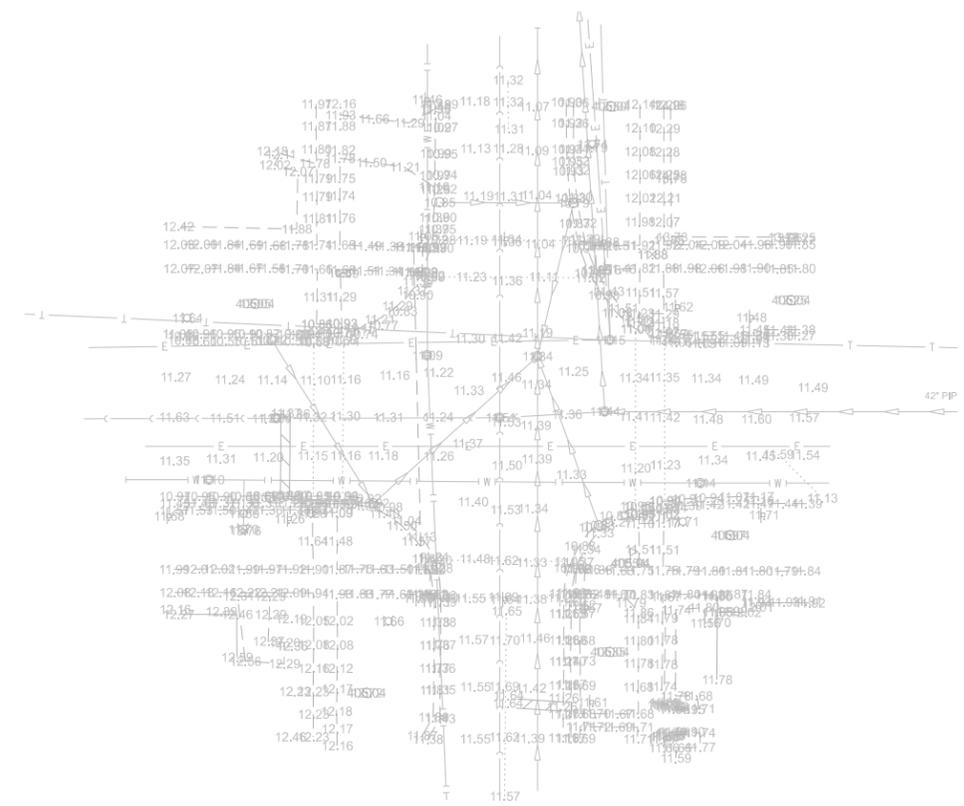
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**2025 ALLEY AND SIDEWALK IMPROVEMENTS  
SHERIDAN AND CLINTON PEDESTRIAN CROSSING**

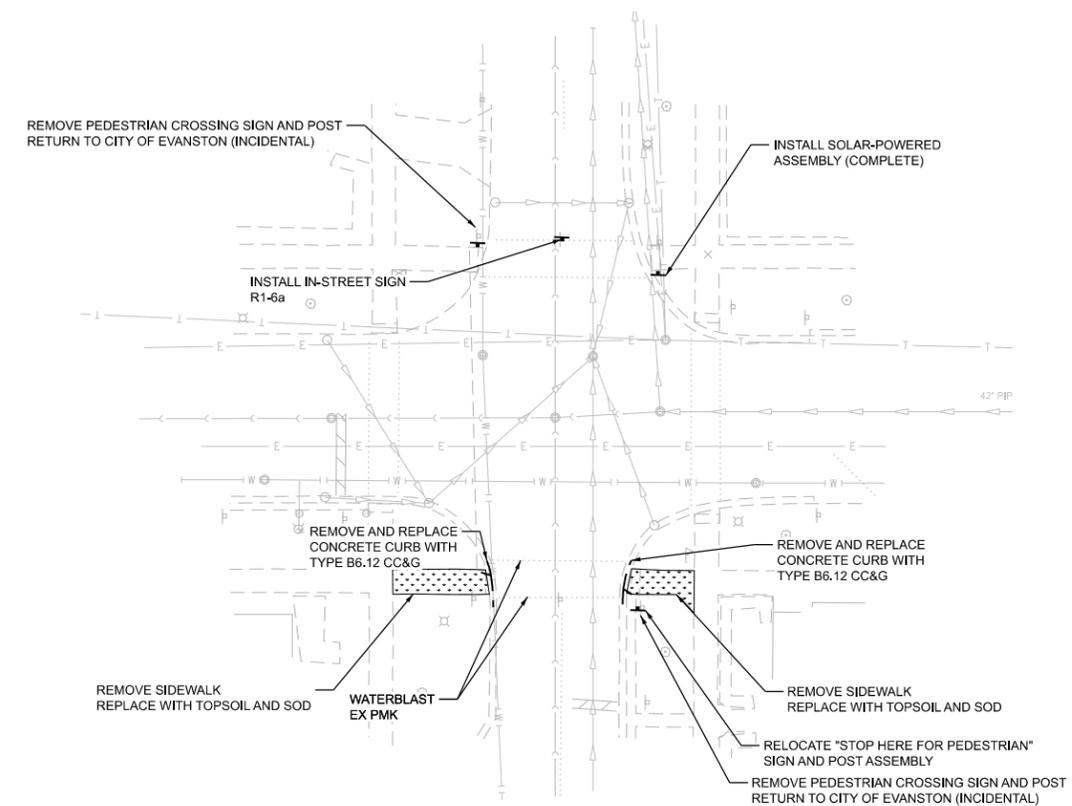
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HORIZONTAL	1"=20'	BID NUMBER: 25-26	DATE: 04/23/2025	DRAWN BY: DS	
VERTICAL	NA	CHECKED BY: TPD			



**EXISTING**



**PROPOSED**



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5/8/2025	ADDENDUM 1
DATE	NO. REVISION

**2025 ALLEY AND SIDEWALK IMPROVEMENTS  
SHERIDAN AND KEENEY PEDESTRIAN CROSSING**

SCALE	SA 1532, SA 1533	PROJECT NUMBER: SA 1534	ISSUED FOR: CONSTRUCTION	DESIGNED BY: MH	SHEET <b>22 OF 35</b>
HORIZONTAL	1"=20'	BID NUMBER: 25-26	DATE: 04/23/2025	DRAWN BY: DS	
VERTICAL	NA			CHECKED BY: TPD	

