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April 1, 2025

ADDENDUM 1 – JOB 22048

TO: All prospective bidders on Projects NH-CPU-4-083(142)198, Job No. 22048 scheduled for the April 11, 2025 bid opening.

The following revision(s) shall be made:

Plan Revisions:

See attached summary from Derek D. Pfeifer, P.E. dated April 1, 2025 for an explanation.

This addendum is to be incorporated into the bidder's proposal for this project.

Jeff Jirava

for PHILLIP MURDOFF, P.E. – CONSTRUCTION SERVICES ENGINEER
80: jwj
Enclosure

PLAN ADDENDUM SUMMARY AND APPROVAL

PROJECT INFORMATION					
Project:	NH-CPU-4-083(142)198			**PCN:**	22048
Location:	WARD CO; US 83, NEAR JCT OF US 83 AND US 2 - MINOT				
Date:	3/31/25	**Lead Designer:**	Ulteig Engineers, Inc.		
Bid Opening Date:	4/11/25	**JOB#:**	22048	**Addendum#:**	1

PLAN SHEET CHANGES		
Section	**Sheet**	**Description**

6	3 & 4	Revised note 772-P05. Updated surface preparation specifications & materials.
		• Sandblasting criteria
		  ○ #2 – added for clarification on cleaning (pushed remaining notes down)
		  ○ #3 – Revised SSPC-SP5 to SSPC-SP10 (Contractor Question #2)
		  ○ #5 – Updated to allow 40/60 coal slag (Contractor Question #3)
		  ○ #7 – Updated to allow CHLOR*RID or approved equal (Contractor Question #1)
		• Paint Traffic Signal
		  ○ #3 – Added approved equals and combined with previous #4 (Contractor Question #4)
		  ○ Renumbered remaining Paint Traffic Signal criteria

APPROVAL

Should the revisions described above be processed as a plan addendum?

X_____ Yes _____ No

_____ 4/1/2025

Derek Pfeifer, P.E. – Local Government Engineer Date

Revised 3/31/25

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NH-CPU-4-083(142)198	6	3

NOTES

772-P01 EXISTING EQUIPMENT INSPECTION: Inspect all traffic signal system equipment to be salvaged/reset for damage prior to removal. Contact the City of Minot Traffic Division and the Project Engineer prior to removal of any damaged equipment to document damaged equipment. Include all costs for labor, materials, and equipment necessary for the existing equipment inspection in the bid price for “Revise Traffic Signal System”.

772-P02 REVISE TRAFFIC SIGNAL SYSTEM: Include in the bid price for “Revise Traffic Signal System” all materials, labor, and equipment necessary for the intersection of US 83 & US 2/US 52 South Ramps traffic signal system to be fully operational as shown in the plans upon construction completion. This includes, but is not limited to, the salvaging and resetting of traffic signal standards, mast arms, signal heads, emergency vehicle pre-emption (EVP) system, video detection system, ancillary hardware, cables, wiring, and appurtenances as well as furnishing and installing conduit, pull boxes, and incidental concrete to reset a fully operational traffic signal system.

Remove the following as shown in the plans:
1. Existing traffic signal pull boxes.
2. Existing traffic signal pole foundations.
3. Existing traffic signal pipe conduit within limits of excavation. At limits of excavation, abandon existing conduit in place.

Salvage and protect the following traffic signal system equipment to be reset as shown in the plans:
1. Existing traffic signal equipment.
2. Existing video detection equipment.
3. Existing emergency vehicle pre-emption (EVP) equipment.

Temporarily relocate all existing equipment salvaged for reset to manage other construction activities.

Take care not to damage any existing equipment to be reset. Replace at contractor’s expense any equipment that was functioning prior to construction, that does not function at construction completion. Replace damaged equipment with the same manufacturer and model as the existing equipment, to the extent possible if it is still available to be reproduced. Replace full cable if existing cables are damaged.

Construct new traffic signal foundations per drilled shaft foundations special provision. Furnish and install pull boxes and rigid conduit for traffic signal cables as shown in the plans. New conduit runs must not exceed the length of existing conduit runs in order to maintain existing cable slack. Connect new conduit to existing conduit. Re-pull all existing salvaged traffic signal system cables through new conduit and existing conduit as shown in the plans.

Reset traffic signals on new traffic signal foundations as shown in the plans. Reattach and reinstall all traffic signal system equipment as shown in the plans.

772-P03 REMOVE CONCRETE FOUNDATIONS: Remove and dispose of existing concrete traffic signal foundations that are nearly fully exposed during excavation. Otherwise, remove concrete foundations as specified in NDDOT Standard Specifications. Include all costs for labor, materials, and equipment necessary for removing and disposing of existing traffic signal foundations as shown in the plans in the bid price for “Revise Traffic Signal System”.

772-P04 HAZARDOUS MATERIALS: Prior to any work on painted signal components, use a North Dakota Certified lab to verify if any lead paint, PCB paint, or other hazardous material is present as defined by the North Dakota Department of Environmental quality. If hazardous materials are detected, protect all pedestrians and the traveling public from all debris. Collect all sandblasting material and removed paint/debris in a method that is approved by the EPA. Include all work pertaining to the testing, containment, and any other costs associated with meeting requirements from the EPA and North Dakota Department of Environmental Quality Hazardous Waste Rules in the bid prices for “Paint Signal Standard” and “Paint Signal Standard MA”.

772-P05 PAINT SIGNAL STANDARD and PAINT SIGNAL STANDARD MA: Use the following method when re-painting traffic signals.

Sandblast Traffic Signal:
1. Temporarily detach all existing equipment from traffic signal standards and mast arms, including mounting hardware, as necessary to re-paint traffic signals.
2. Remove oil and grease from affected surfaces before blast cleaning. Remove the oil or grease by solvent cleaning according to SSPC SP-1 (Steel Structures Painting Council Surface Preparation Specification-1) and with EPA approved methods.
3. Use SSPC SP-10 Near-White Metal Blast Cleaning. This method of cleaning is defined as a near-white metal blast cleaned surface that when viewed without magnification is free of all oil, grease, dirt, mill scale, rust, coating, oxides, corrosion products, and other foreign matter except for random staining which is limited to no more than 5% of each unit area.
4. Completely remove all visible rust and paint by Near-White Metal Blasting the traffic signal standard and mast arm.
5. Use steel grit angular carbon steel, or 40/60 coal slag abrasive media, or approved equal for the sandblasting materials.
6. Perform sandblasting. Protect all pedestrians and the traveling public from all debris. Collect all sandblasting material and removed paint/debris in a method that is approved by the EPA. Contain and clean up the existing paint/debris if it contains harmful chemicals or existing lead paint, which includes protecting pedestrians and the traveling public from these hazardous contaminates.
7. Before the primer is applied, coordinate inspection with the Project Engineer to ensure that the traffic signal standard and mast arm are free of all visible paint, rust, and contaminants. Prepare the traffic signal standard and mast arm according to Near-White Metal Blasting Specifications and to the satisfaction of the Project

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NOTES

Engineer. Re-blast or clean the pole with Devoe DEVPREP 88, CHLOR*RID, or approved equal cleaner, if needed. Coordinate with the Project Engineer to determine which method shall be used.

Paint Traffic Signal:

1. Remove and replace all post-mount plugs before painting.
2. Mask all areas as desired by the Project Engineer.
3. Prime bare metal with PPG HBE-400 Primer and HBE-403 Catalyst. Apply two top coats of Devthane 379UVA manufactured by Devoe High-Performance Coatings, and one coat of clear coat as recommended by the top coat manufacturer. Alternatively, apply primer/base coat of PPG Amerlock 2 High-Build Epoxy, then Top coat PPG PSX 700 Polysiloxane, or approved equals, as necessary to achieve desired color, finish, and durability.
4. Apply all coatings according to the manufacturer's recommended film thickness. Follow the manufacturer's directions for use for application of all materials.
5. Remove all masking.

Include all costs for labor, materials, and equipment necessary to sandblast and paint traffic signal standards and mast arms in the bid prices for "for "Paint Signal Standard" and "Paint Signal Standard MA".

772-P06 SIGNAL COMPONENT COLOR PAINT / FINISH: Provide traffic signal system components painted / finished in accordance with the following:

- Transformer base – black
- Pole – black
- Mast arm – black
- Signal head mounting hardware – black
- Backplate - black
- Signal housing – black

The black color is 17038 of the AMS-STD No. 595.

772-P07 RELOCATE MA SIGNAL HEAD: Include all costs for labor, materials, and equipment necessary for relocating misaligned signal heads in the bid price for "Revise Traffic Signal System".

772-P08 SALVAGE AND RE-PULL CABLE: Salvage and re-pull all existing cables, conductors, wiring, and incidental equipment through new conduit and existing conduit as shown in the plans to provide a fully operational traffic signal system, including video detection and EVP. Existing conduit size of 3 inches at the intercept shown in the plans is based on the most recent as-builts. Include all costs for labor, materials, and equipment necessary for salvaging and re-pulling cable in the bid price for "Revise Traffic Signal System".

772-P09 REVISE CONTROLLER: Coordinate with the City of Minot Traffic Division, and potentially the manufacturer, as necessary for technical support and set permanent emergency vehicle pre-emption, video detection, traffic signal timing, coordination, and programming to match existing settings. Verify that all controller settings work properly. Include all costs for labor, materials, and equipment necessary for setting a fully operational traffic signal system in the bid price for "Revise Traffic Signal System".

772-P10 VIDEO DETECTION SYSTEM: Salvage and protect the video detection cameras, cables, wiring, mounting hardware, and other video detection equipment to be reset as shown in the plans. Ensure existing cable connections, camera aim, detection zones, programming of detection zones, and all other incidental video detection setups are reinstated as recommended by the manufacturer. Coordinate with City of Minot Traffic Division, and potentially the manufacturer, as necessary for technical support to accommodate modifications throughout the duration of the project. Verify the reliability of operation with the City of Minot Traffic Division. Include all costs for labor, materials, and equipment necessary for resetting a fully operational video detection system, including technical support, in the bid price for "Revise Traffic Signal System".

772-P11 EMERGENCY VEHICLE PRE-EMPTION (EVP) EQUIPMENT: Salvage and protect the EVP units, cables, wiring, mounting hardware, and other EVP equipment to be reset as shown in the plans. Ensure existing cable connections, EVP aim, programming, and all other incidental EVP setups are reinstated as recommended by the manufacturer. Notify the fire chief Kelli Kronschnabel (701-857-4740) when the EVP systems are tested and operable. The City of Minot is responsible for setting the range of the system. Verify the reliability of operation with the City of Minot. Include all costs for labor, materials, and equipment necessary for resetting a fully operational EVP system in the bid price for "Revise Traffic Signal System".

772-P12 TRAFFIC SIGNAL PULL BOX: Provide pull boxes that are made of a lightweight, high-density polymer concrete composite, UL listed and are resistant to sunlight exposure, weathering, chemicals, and unaffected by freeze-thaw cycles to -50 F. See standard drawing D-770-3 for details. Duct seal all conduits entering and exiting pull boxes. No splicing is allowed in pull boxes. Provide box covers that are stainless steel hex bolts and nuts and be stamped with standard logo "Traffic Signal". Include all costs for labor, materials, and equipment necessary for furnishing and installing traffic signal pull boxes in the bid price for "Revise Traffic Signal System".

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