



North Dakota Department of Transportation

Grant Levi, P.E.
Director

Jack Dalrymple
Governor

December 7, 2016

ADDENDUM 1 – JOB 17

TO: All prospective bidders on project IM-8-029(151)000, Job No. 17 scheduled for the December 16, 2016 bid opening.

The following plan revisions shall be made:

Plan Revisions:

Remove and replace sheet 6-1, 6-2, and 6-3 with the enclosed sheets revised 12/7/2016.

Sheet 6-1:

Note 108-500 TERO COORDINATION has been added.

Sheets 6-2 and 6-3;

Text has shifted due to added note.

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

for CAL J. GENDREAU – CONSTRUCTION SERVICES ENGINEER

80:dch

Enclosure

NOTES (Revised 12-7-16)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	IM-8-029(151)000	6	1

- 100-P01 COORDINATION: Contact SDDOT Watertown Area Office at (605)882-5166 to make sure the project is in the SD511 Safetravelusa.com system with all applicable restrictions.
- 105-P01 The Contractor will not be allowed to use Lake Agassiz Rest Area as a staging area.
- 107-P01 LAWS TO BE OBSERVED: A portion of this project lies within the exterior boundaries of an Indian Reservation in South Dakota. Review laws and ordinances pertaining to the work contained within the boundaries of the reservation.
- 108-500 TERO COORDINATION: Invite the Tribal TERO Office to the Preconstruction Conference.
- 155-100 CONCRETE EQUIPMENT: Provide a NRMCA Certified plant for concrete used in Sections 550, "Concrete Pavement", 570 "Concrete Pavement Repair", 602 "Concrete Structures", and 622 "Pilings".
- 202-P01 REMOVAL OF INLETS AT CP RAIL SEPARATION: Two existing curb inlets are located on the south side - one near each bridge corner. Remove the curb inlets.

This pair of inlets consists of a 4' long, 30" RCP, and a 5' long, 30" RCP, resting on 6" thick concrete bases, with inlet castings and grates. The inlets are connected with a 15" diameter corrugated steel pipe and drained by a 15" diameter corrugated steel outlet pipe and end section.

Remove the outlet pipe end section. Cap the pipe outlet end with concrete and cover with earth. Remove the drain frames, grates, and risers. Cap the 15" diameter corrugated steel pipe ends with concrete. Backfill the remaining hole with earth. Place the backfill and thoroughly compact in 6-inch layers using a mechanical tamper with an appropriate sized tamping head. Use concrete caps with a minimum thickness of 9 inches. Seed the disturbed areas that are not to be paved.

Include the costs for all labor, equipment and materials required to remove the inlets in the price bid for the item "Removal of Inlets".
- 202-P02 REMOVAL OF TEMPORARY BYPASS: Remove the temporary ramp connections after the southbound roadway is open to traffic.

Shape the median slopes to a 6:1 slope, reshape existing slopes on ditch blocks as shown on Ditch Block detail, place topsoil, seed, and mulch.

Include all labor and equipment costs for removing, hauling, and disposing of materials and PVC pipe, removal and replacement of topsoil, and shaping of median slopes and ditch block slopes in the unit price bid for "Removal of Temporary Bypass".
- 203-010 SHRINKAGE: 25 percent additional volume is included for shrinkage in earth embankment.
- 203-P01 COMMON EXCAVATION TYPE A: Dispose of excess common excavation as specified in Section 107.17, Removed Material. Include the cost of hauling and disposing of excess common excavation in the contract unit price for "Common Excavation - Type A".
- 203-P02 SUBCUT: Subcut area the Engineer determines too wet or unstable to subgrade prep. Quantities for 100 feet of 18" subcut have been included, to be used at the discretion of the Engineer.

- 230-P01 SHOULDER PREPARATION: In addition to work described in Section 230.04 B of the Standard Specifications, till or disk the foreslope approximately 6 feet wide starting at the edge of the shoulder. Complete this work just prior to overlay to eliminate a need for temporary stabilization. Make sure the tilled material abuts the existing pavement edge before overlay placement.

Provide a smooth transition between the top of the pavement slough and existing foreslope after the bituminous pavement has been placed on the shoulders. Remove or rework all chunks, rock, and lumps of sod or dirt to allow a smooth transition. Include all costs of labor, materials, and equipment to perform this work in the unit price bid for "Shoulder Preparation."
- 253-P01 MULCH: Use straw mulch over the seedbed for temporary seeding application.

Use hydraulic mulch over the seedbed for permanent seeding application. Apply seeding as specified in Section 251.03 and 251.04.

Apply hydraulic mulch with the following modifications:
 - Eliminate combining the seed mixture with the mulch
 - Eliminate the temporary care maintenance.
- 302-P01 TRIMMING BASE COURSE IN RECONSTRUCTION AREAS: Use Surface Tolerance Type B for the Salvaged Base Course. Incorporate excess material removed by the trimming operation from the high points into the salvaged base course.
- 411-P01 MILLED MATERIAL: All bituminous material milled from this project that is not incorporated back in the project will become the property of the NDDOT. Deliver and stockpile milled material at the NDDOT yard located at the SW quadrant of Hankinson/ND 11 interchange.

Contact the Engineer prior to disposing any millings at the site. The Certificate of Approval is available on the NDDOT website.

Include all costs for labor and equipment to mill and haul the material to the NDDOT yard in the unit price bid for "Milling Pavement Surface."
- 430-P01 MAINTENANCE OF TRAVELED ROADWAY USING HOT ASPHALT MIX: The contractor will be fully responsible for monitoring the condition of the traveled roadway, crossovers and ramp connections within the limits of the project.

Patch with an approved mix any areas that have subsided more than one inch from the adjacent pavement, any rutting, sponginess and/or breakups. Compact patched areas in accordance with Section 430.04 I.3 of the Standard Specifications. Include the costs for the equipment, labor, and materials (including asphalt cement) in the unit price bid for "Patching".

Traffic control and flagging will be paid for under the normal contract bid items.

This document was originally issued and sealed by Derek Pfeifer, Registration Number PE-12241, on 12/07/16 and the original document is stored at the North Dakota Department of Transportation
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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	IM-8-029(151)000	6	2

Additionally, the contractor will be required to perform an initial inspection of the roadway, used by the traveling public before construction begins, and make all repairs in accordance with the above requirements or as directed by the Engineer. A quantity of 100 Tons of "Patching" has been provided for this purpose.

430-P02 HOT MIX ASPHALT OVERLAY (HMA): Place the first 2" of hot mix asphalt within one week of cracking the pavement.

Use approximately 1/2" of the 2" hot mix asphalt for a scratch course before the asphalt overlay is applied. Paver-lay the scratch course across the full width of the lanes and shoulders. Compact the material according to Section 430.04 I.3, "Ordinary Compaction". Include all costs associated with scratch course in the bid price for "Superpave FAA 45" and "PG 58-28 Asphalt Cement".

550-P01 CONCRETE PAVEMENT: The development of a maturity curve, as specified in Section 550.04 B, "Mix Design", will not be required.

704-100 TRAFFIC CONTROL SUPERVISOR: Provide a Traffic Control Supervisor.

704-200 PRECAST CONCRETE MEDIAN BARRIERS – STATE FURNISHED: Obtain 79 barriers from the Lake Agassiz Rest Area. Return barriers to the Fargo District Storage Yard at Casselton.

Some 4 inch x 4 inch boards are available at the return location. Provide any additional 4 inch x 4 inch boards necessary to stack barriers. The boards will become property of the Department. Include the cost for boards in the contract unit price for "Precast Concrete Median Barrier - State Furnished".

704-300 FLASHING BEACON: Provide solar powered flashing beacons that meet the requirements of the MUTCD and ITE. Provide beacons that are visible for a distance of 0.25 miles (1,320 feet) and are capable of operating for 20 days without a solar charge.

Include all costs for materials, equipment, labor, and incidentals in the contract unit price for "Flashing Beacon".

704-P01 TRAFFIC CONTROL: The contractor will be required to maintain traffic at all times. The Traffic Control Devices has been developed using the following layouts on the Standard Drawings for Traffic Control:

D-704-2, for coring hot bituminous pavement

D-704-15, Layout Type A for paving on the ramps.

D-704-22, Layouts Type K and L for trucks entering and exiting the roadway as needed.

D-704-24, Layout Type T for mobile operation on shoulder as needed.

D-704-26, Layouts Type BB and EE, as needed.

D-704-27, for pavement marking.

D-704-35, for mainline guardrail installation and removal of the west ramp connections.

D-704-38, 39, Traffic Control Systems Median Crossover 55 mph speed limit or greater.

D-704-49 for exiting and entering median when removing ramp connections

D-704-56 for grinding shoulder rumble strips

704-P02 TRAFFIC CONTROL PHASING FOR NW LOOP RAMP AT STATE LINE INTERCHANGE: Complete the proposed work as described below.

PHASE 1: Build a temporary connection in the gore area as shown in the plans.

PHASE 2: Route traffic on the temporary connection and passing lane as shown in Section 100 of the plans. Remove pavement from the 6' right shoulder, 12' acceleration lane, and 12' driving lane. Remove base material and subgrade to required elevations. Construct a temporary wedge with a foreslope of 4:1 or flatter along the lane carrying traffic. Complete subgrade preparation. Place salvaged base course to required elevation. Construct temporary connection for the next phase as shown in Section 20.

PHASE 3: Route traffic onto salvaged base course as shown in Section 100 of the plans. Remove pavement from the median shoulder and 12' passing lane. Remove base material and subgrade to required elevations. Complete subgrade preparation. Place salvaged base course on 4' median shoulder, 12' passing lane, and 12' driving lane. Trim to required elevation. Pave median shoulder, passing lane, and driving lane. Cure concrete, saw and seal joints. Place embankment along median shoulder. Construct temporary connections for the next phase as shown in Section 20.

PHASE 4: Route traffic onto temporary connection and new concrete pavement as shown in Section 100. Remove temporary ramps adjacent to acceleration lane and right shoulder. Trim salvaged base course on 12' acceleration lane and 6' right shoulder. Pave the acceleration lane and its shoulder. Cure concrete, saw and seal joints. Place embankment along the right shoulder.

704-P03 TRAFFIC CONTROL (NORTH MEDIAN CROSSOVER AND RAMP CONNECTIONS): There are existing triple-weighted tubular markers at the north median crossover and at the ramp connections (total of approximately 101 EA). Remove these tubular markers just prior to changing the traffic flow and salvage for reset after completion of the project.

Include the cost incurred for this work in the traffic control items.

704-P04 MEDIAN CROSSOVER AND RAMP CONNECTIONS REMOVAL: For exiting and entering median when removing ramp connections and north median crossover, use standard drawing D-704-49 in conjunction with one lane closures. If trucks will be entering or exiting roadway from the 10 foot shoulder, Trucks Entering Highway (W8-53-48) or Trucks Exiting Highway (W8-56-48) signs should be used respectively. Scrapers will not be allowed on interstate roadway with public traffic.

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704-P05 STATE ROUTE MARKERS: Provide State Route Marker signs for temporary traffic control. Upon completion, these signs will become property of the State. Stockpile signs within the project limits. The Engineer will arrange to have the stockpiled signs removed from the project site.

Include the price of furnishing, installing, maintenance, stockpiling and other incidentals in the contract unit price for "Traffic Control Signs".

706-P01 FIELD OFFICE: Provide a field office which meets the following requirements:

1. Minimum total area of 440 square feet
2. Indoor bathroom facilities and supplies with weekly cleaning services
3. Hookups for heat, electricity, sewer, and potable water.
4. Minimum cabinet space of 32 cubic feet
5. Minimum counter space of 40 square feet
6. Air conditioner with a minimum of 20,000 BTUs
7. Lighting with a minimum of 110 foot-candles
8. Photocopy/Printer with scanning capabilities capable of 11x17 photocopies and toner to last the duration of the project. Other features to include digital copying and scanning. Copier/printer machine with operating software compatible with that used by the NDDOT.

Supply a photocopier with enough toner to last the length of the project and with the following capabilities:

- a. Printing;
- b. Scanning; and
- c. Producing 11 x 17 photocopies and prints.

Place the field office on the project, or as close to the project as possible. The Contractor is responsible for the pay for the following:

- Rental fees;
- Heating;
- Electrical;
- Sewer, and
- Potable water.

Make the field office available for occupancy one week before the start of the project. The Engineer will approve the location and the condition of the office. Do not remove the field office until the Engineer releases the field office.

The Engineer is responsible for the following items:

- Furnishing office equipment;
- Supplying paper; and
- Supplying and paying for internet service.

All requirements of the Field Office are subject to approval by the Engineer. Include the costs for the field office in the bid item "Field Office".

Schedule for Payments:

- 25% when set up on site.
- 50% when 30% of the work is complete.
- 75% when 60% of the work is complete.
- 100% when project is complete.

706-P02 BITUMINOUS LABORATORY: Replace 706.02 C, Number 8, with the following: A forced draft oven with an interior capacity of 6 cubic feet and that is capable of maintaining a temperature range from 250°F to 350°F ±5°F.

910-P01 CONTROLLED DENSITY BACKFILL: Place controlled density backfill in the pipes located at Sta 1747+14 and Sta 1747+28, as shown in the plans.

Provide a backfill that meets the requirements of Table 1 for one cubic yard:

Table 1	
Mix Design	
Cement	100 lbs
Flyash	300 lbs
Fine Aggregate	2600 lbs
Water	70 gals

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