



North Dakota Department of Transportation

Grant Levi, P.E.
Director

Jack Dalrymple
Governor

October 2, 2015

ADDENDUM 2 – JOB 29

TO: All prospective bidders on project ITS-9-999(344) & SS-9-999(339), Job No. 29, scheduled for the October 9, 2015 bid opening.

The following plan and request for proposal revisions shall be made:

Plan Revisions:

Remove and replace sheets 1-1, 2-1, 6-1, 8-1, and 150-25 with the enclosed sheets revised 9/30/2015.

Remove sheets 150-7 to 150-10.

Sheet 1-1:

The ATR site reference “Painted Canyon ATR, I-94 RP 34.66, Site 279” has been removed from this sheet.

Sheet 2-1:

The reference to Section 150 Sheets 7-10 has been removed.

Sheet 6-1:

Note 772-P01 has been revised to remove Site 279.

Sheet 8-1:

Item 704 0100 FLAGGING; quantity has decreased from 280 to 240 MHR.

Item 772 9010 AUTOMATIC TRAFFIC RECORDER SYSTEM; quantity decreased from 3 to 2 EA.

Sheet 150-7 to 150-10:

Remove these sheets, since Site 279 is now deleted.

Sheet 150-25:

The detail showing a control cabinet with a switch box has been removed.

Request for Proposal Revisions:

Remove and replace pages 7 of 9 of the Proposal pages located at the beginning of the Request for Proposal, with the enclosed pages revised 10/2/2015.

Page 7 of 9:

Item 704 0100 FLAGGING; quantity has decreased from 280 to 240 MHR.

Item 772 9010 AUTOMATIC TRAFFIC RECORDER SYSTEM; quantity decreased from 3 to 2 EA.

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

Expedite bid files should be updated by downloading the addendum file from the Bid Express on-line bidding exchange at <http://www.bidx.com/> or the Department's web page (<http://www.dot.nd.gov>) and load it into the Expedite program.



For

CAL J. GENDREAU – CONSTRUCTION SERVICES ENGINEER

80:dch

Enclosure

BID ITEMS

Projects: ITS-9-999(344) (PCN-20969) and SS-9-999(339) (PCN-20898)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$	000	\$\$\$\$	00
001	103	0100	CONTRACT BOND	L SUM	1.				
002	702	0100	MOBILIZATION	L SUM	1.				
003	704	0100	FLAGGING	MHR	240.				
004	704	1000	TRAFFIC CONTROL SIGNS	UNIT	832.				
005	704	1060	DELINEATOR DRUMS	EA	80.				
006	704	1065	TRAFFIC CONES	EA	40.				
007	704	1067	TUBULAR MARKERS	EA	20.				
008	704	1087	SEQUENCING ARROW PANEL-TYPE C	EA	1.				
009	754	0592	RESET SIGN PANEL	EA	1.				
010	772	9010	AUTOMATIC TRAFFIC RECORDER SYSTEM	EA	2.				
011	772	9012	REVISE AUTOMATIC TRAFFIC RECORDER SYSTEM	EA	2.				
012	772	9151	INSTALL ESS STATION/RWIS	EA	2.				
			TOTAL SUM BID						

JOB # 29 NORTH DAKOTA

DEPARTMENT OF TRANSPORTATION

SS-9-999(339)
ITS-9-999(344)

Burleigh, Grant, McKenzie, Stark, Ward, Williams

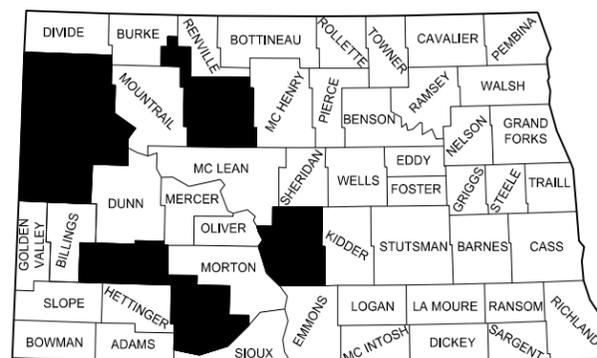
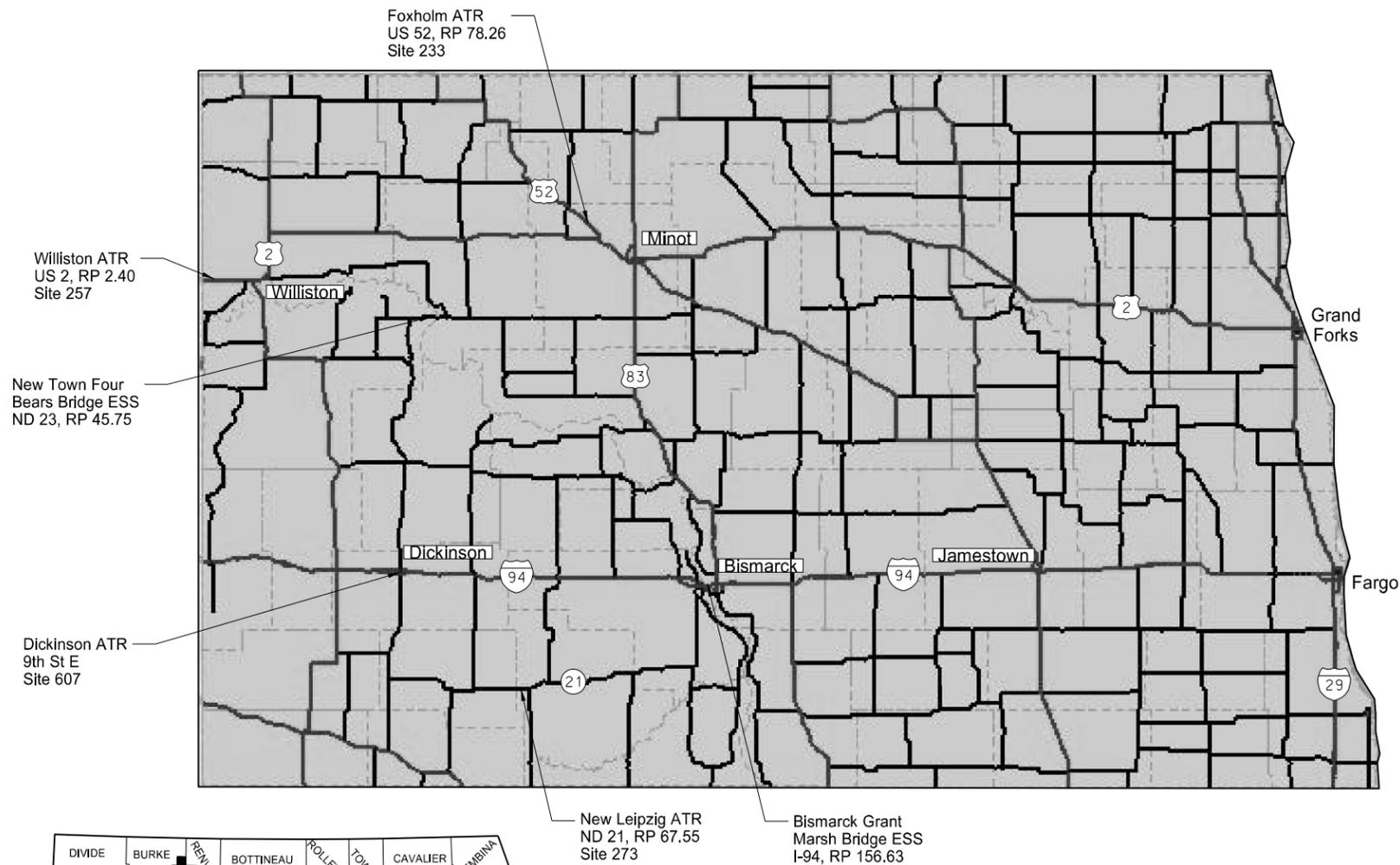
2015 ESS & ATR IMPROVEMENT - WEST

Revised	9-30-15	STATE	PROJECT NO.	PCN	SECTION NO.	SHEET NO.
		ND	SS-9-999(339)	20898	1	1
			ITS-9-999(344)	20969		

GOVERNING SPECIFICATIONS:

2014 Standard Specifications adopted by the North Dakota Department of Transportation and the Supplemental Specifications effective on the date the project is advertised.

PROJECT NUMBER \ DESCRIPTION NET MILES GROSS MILES



STATE COUNTY MAP

DESIGNERS

Spencer Ulvestad /s/

I hereby certify that the attached plans were prepared by me or under my direct supervision and that I am a duly registered professional engineer under the laws of the state of ND.

APPROVED DATE 9-30-15

James Douglas Rath /s/

DESIGN DIVISION

APPROVED DATE 9-30-15

for Roger Weigel /s/

OFFICE OF PROJECT DEVELOPMENT
ND DEPARTMENT OF TRANSPORTATION

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NH-9-999(339) ITS-9-999(344)	2	1

TABLE OF CONTENTS

<u>Section No.</u>	<u>Sheet No.</u>	<u>Description</u>
1	1	Title Sheet
2	1	Table of Contents
6	1-4	Notes
6	5	Environmental Commitments
8	1	Quantities
100	1	Traffic Control Devices List
150	1-4	ATR Site 273
	5-6	ATR Site 607
	7-10	Sheets Removed
	11-14	ATR Site 233
	15-17	ATR Site 257
	18-20	ESS New Town
	21-23	ESS Bismarck
	24-27	General Details

LIST OF STANDARD DRAWINGS

<u>Standard No.</u>	<u>Description</u>
D-101-01, 02, 03	NDDOT Abbreviations
D-101-10	NDDOT Utility Company Abbreviations
D-101-20, 21	Linestyles
D-101-30, 31, 32	Symbols
D-704-7	Breakaway Systems For Construction Zone Signs – Perforated Tube
D-704-8	Breakaway Systems For Construction Zone Signs – U-Channel Post
D-704-9	Construction Sign Details – Terminal and Guide Signs
D-704-10	Construction Sign Details – Regulatory Signs
D-704-11	Construction Sign Details – Warning Signs
D-704-13	Barricade And Channelizing Device Details
D-704-14	Construction Sign Punching And Mounting Details
D-704-19	Road Closure and Lane Closure on Two Way Road Layouts
D-704-23	Short Term Urban Detour and Lane Closure on Divided Highway Layouts
D-704-25	Lane Closures on Urban Streets Layouts
D-704-50	Portable Sign Support Assembly

LIST OF SPECIAL PROVISIONS

<u>SP No.</u>	<u>Description</u>
154(14)	Environmental Sensor Station
132(14)	TERO

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NH-9-999(339) ITS-9-999(344)	6	1

NOTES

704-P01 TRAFFIC CONTROL DEVICES: The Traffic Control Devices List has been developed using the following Standard Drawing layouts for traffic control:

- D-704-19 Type F – Two Way Road – Lane Closure
- D-704-23 Type P – Four Lane Divided Roadway – One Lane Closure
- D-704-25 Type V – Urban Streets – Lane Closure

The pavement marking shall not be changed for a lane closure.

Traffic control quantities are provided for one location.

754-P01 RESET PEDESTRIAN CROSSING SIGN PANEL: A "NO PEDESTRIAN CROSSING" sign is located at the Bismarck ESS site.

Remove the sign panel from the existing support. Remove the existing sign support and foundation. Reinstall the sign panel on the chain link fence. It shall be located 2 feet from the last fence post.

Provide all necessary brackets and hardware to attach sign panels, angles, stringers, and steel channels on fence.

The Engineer will measure the item "Reset Sign Panel" by the number of locations a sign or sign assembly has been reset.

772-P01 AUTOMATIC TRAFFIC RECORDER SYSTEM: This note applies to Automatic Traffic Recorder (ATR) Sites 273, and 233.

Representative

The Contractor shall ensure that a qualified PEEK Traffic Corp. representative will be on site to assist and supervise the system installation and all work. The Contractor shall ensure that the PEEK Traffic Corp. representative is certified for ATR equipment installation, operation, calibration, and vehicle verification processes.

Loops

Loop conductor shall meet the requirements of Spec. 896.02 B.1.

Loop lead-in conductor shall meet the requirements of Spec. 896.03 B.3 and shall not be spliced except at the pull box, where the loop conductor and loop lead-in conductor are joined. All loop splices shall be soldered along with a 3M splice kit, or CK 137 Shake-N-Seal from Uraseal.

Sawing & Sealing Joints

The Contractor shall follow the provisions of Spec. 772.04 E.4 and E.7 when sawing and sealing any joints. Loop saw slots shall be 2 inches deep or as recommended by the manufacturer. Hot Poured Joint Seal shall not be used for sealing any saw slots.

The Contractor shall use 3M Bondo P-606V Loop Sealant, VersaFLEX SL/75 Joint Filler, or BASF MasterSeal SL 180 Loop Sealant for sealing all saw cuts.

The Contractor shall follow minimum curing specifications for all loops according to the detector loop manufacturer. The sealant shall cure until it does not track or has set sufficiently where it is not damaged by traffic. Any damage will be repaired at the Contractor's expense.

Cabinet

The Contractor is responsible for all conductor termination. All lug terminals for conductor termination shall be crimped and soldered. The conductors shall meet the requirements of Spec. 896.02 A.

The 2" rigid conduit shall be at a minimum depth of 24" below finished grade. This conduit shall meet the requirements of Spec. 896.01 B.2. The conduit shall not be spliced from the pull box to the recorder cabinet, and shall be a continuous run.

All conduit ends shall be sealed with steel wool of sufficient quantity to seal the top 2 inches. The steel wool shall be installed immediately after installation and reinstalled after each phase of construction to prevent mice from entering the conduit.

All conduit ends (both in the pull box and the cabinet) shall be permanently sealed with preformed plugs which provide an air tight and water tight seal in the conduit. The conduit plugs shall be removable and reusable. The plugs shall be the split type that permits installation or removal without removing cables. The plugs shall seal the conduit with an adjustable filler of neoprene or silicone rubber compressed with stainless steel hardware. Duct tape shall not be used to cap the conduit or make the ends watertight.

The pull box shall be round PVC pull box as shown in the details. The pull box cover shall be made watertight. The cover shall have a gasket around the opening and around each of the screw holes.

The ADR-6000 traffic recorder shall be manufactured by PEEK Traffic Corp.

All AC power feeds, data lines, and loops shall be protected with approved surge/line protectors. A 6 outlet AC line protector unit must be provided for the 120 volt 60 Hz power source. The protector unit will include a thermal circuit breaker. Electrical Magnetic Interference (EMI) noise suppression will be provided for diverting and clamping high voltage surges. The noise suppression shall limit the maximum voltage reaching the sensitive electronic equipment during a transient pulse. The unit will be approved by Underwriter Laboratories (UL).

The Contractor shall install a 4G Cellular Modem in the ATR cabinet. The Contractor shall contact the Information Technology Division within the NDDOT:

Robert Steckler
216 Airport Road
Bismarck, ND 58504
Telephone: (701) 328-6935

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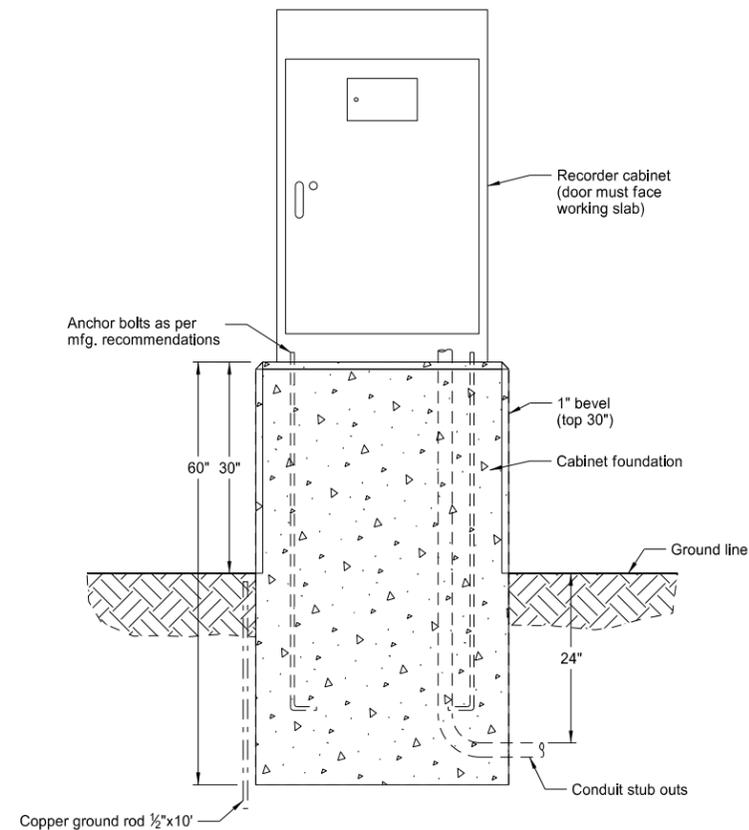
ESTIMATE OF QUANTITIES

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SS-9-999(339)	8	1

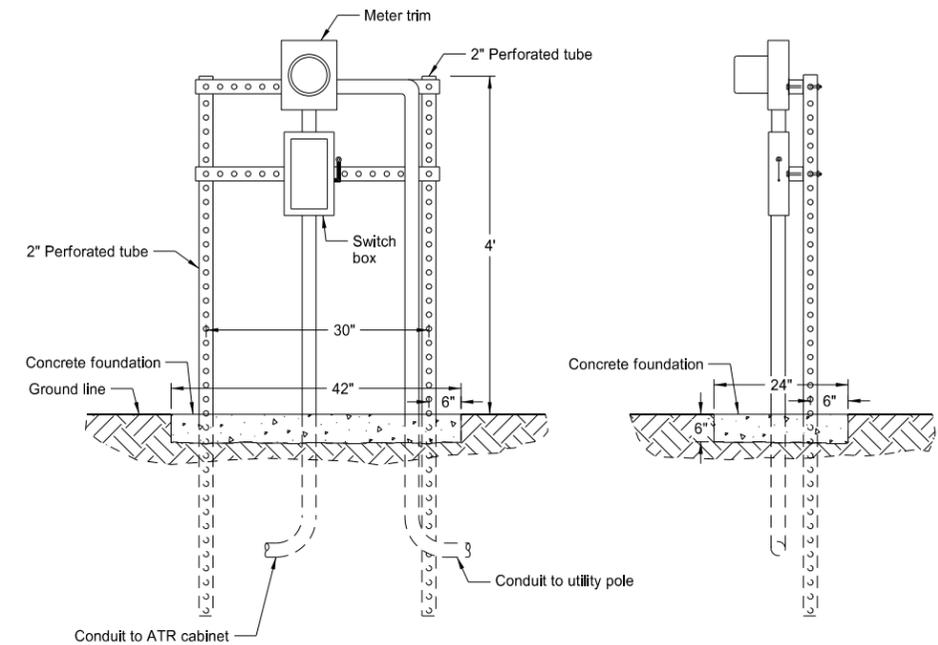
REVISED 09/30/2015

SPEC CODE	ITEM DESCRIPTION	UNIT	NH-9-999(339) ATR	ITS-9-999(34) 4) ESS	TOTAL
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103	0100 CONTRACT BOND	L SUM	0.71	0.29	1
702	0100 MOBILIZATION	L SUM	0.71	0.29	1
704	0100 FLAGGING	MHR	160	80	240
704	1000 TRAFFIC CONTROL SIGNS	UNIT	594	238	832
704	1060 DELINEATOR DRUMS	EA	57	23	80
704	1065 TRAFFIC CONES	EA	29	11	40
704	1067 TUBULAR MARKERS	EA	20		20
704	1087 SEQUENCING ARROW PANEL-TYPE C	EA	1		1
754	0592 RESET SIGN PANEL	EA		1	1
772	9010 AUTOMATIC TRAFFIC RECORDER SYSTEM	EA	2		2
772	9012 REVISE AUTOMATIC TRAFFIC RECORDER SYSTEM	EA	2		2
772	9151 INSTALL ESS STATION/RWIS	EA		2	2

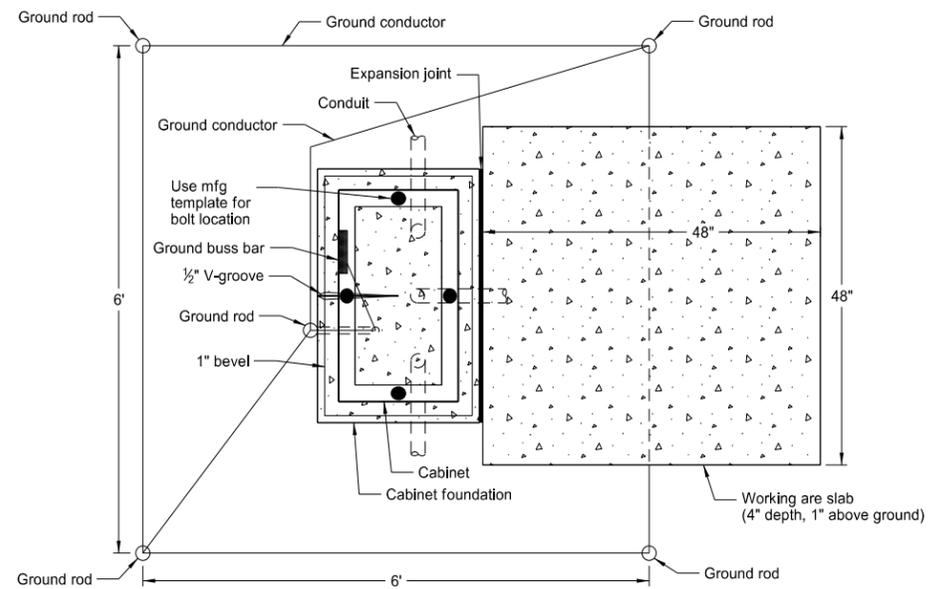
Revised	9-30-15	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	NH-9-999(339)	150	25
			ITS-9-999(344)		



ATR Recorder Cabinet
with Concrete Foundation
Sites 233, 273



Feed Point Detail
with Concrete Foundation
ATR Sites 233, 273
and New Town ESS



ATR Cabinet Foundation
and Working Slab
Sites 233, 273

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ATR & ESS Details
Various Sites