North Dakota Department of Transportation

Grant Levi, P.E.
Director

Doug Burgum
Governor

March 9, 2017

ADDENDUM 2 – JOB 33

TO: All prospective bidders on project SOIB-CPU-TRP-4-083(130)920, Job No. 33 scheduled for the March 17, 2017 bid opening.

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

Plan Revisions:

Remove and replace sheets 8-3, 51-1, and 115-1 with the enclosed sheets revised 3/8/17 or 3/9/2017.

Sheet 8-3:

Item 709 0151 GEOSYNTHETIC MATERIAL TYPE R1 has been revised.

Sheet 51-1:

Revised the R1 Fabric column and the Applicable Backfill column for the Pipe Conduit 60" at Sta 12+84.

Sheet 115-1:

Note 754 STRUCTURAL STEEL has been revised to allow specification API-5L X42, X52, and X60 to be used for pipe.

Request for Proposal Revisions:

Remove and replace page 10 of 19 of the Proposal pages located at the beginning of the Request for Proposal, with the enclosed page revised 3/9/2017.

Page 10 of 19:

Item 709 0151 GEOSYNTHETIC MATERIAL TYPE R1 quantity has decreased from 22,844 to 21,193 SY.

This addendum is to be incorporated into the bidder's proposal for this project. AASHTOWare Project Bids files should be updated by downloading the addendum file from the Bid Express on-line bidding exchange at http://www.bidx.com/ and load it into the AASHTOWare Project Bids program.

For CAL J. GENDREAU – CONSTRUCTION SERVICES ENGINEER
80:dch
Enclosure

Project: SOIB-CPU-TRP-4-083(130)920 (PCN-20749)

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
081	704	1060	DELINEATOR DRUMS	EA	201.				
082	704	1067	TUBULAR MARKERS	EA	130.				
083	704	1080	STACKABLE VERTICAL PANELS	EA	152.				
084	704	1081	VERTICAL PANELS-BACK TO BACK	EA	10.				
085	704	1500	OBLITERATION OF PAVEMENT MARKING	SF	3,186.				
086	706	0400	FIELD OFFICE	EA	1.				
087	706	0500	AGGREGATE LABORATORY	EA	1.				
088	706	0550	BITUMINOUS LABORATORY	EA	1.				
089	706	0600	CONTRACTOR'S LABORATORY	EA	1.				
090	708	1531	INLET PROTECTION-FIBER ROLL 12IN	EA	12.				
091	708	1533	REMOVAL INLET PROTECTION-FIBER ROLL 12IN	EA	8.				
092	708	1540	INLET PROTECTION-SPECIAL	EA	4.				
093	708	1541	REMOVE INLET PROTECTION-SPECIAL	EA	4.				
094	709	0100	GEOSYNTHETIC MATERIAL TYPE G	SY	22,629.				
095	709	0105	GEOSYNTHETIC MATERIAL TYPE GT	SY	22,315.				
096	709	0151	GEOSYNTHETIC MATERIAL TYPE R1	SY	21,193.				

ESTIMATE OF QUANTITIES

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SOIB-CPU-TRP-4-083(130)920	8	3

REVISED 03/09/2017

SPEC	CODE	ITEM DESCRIPTION	UNIT	SOIB NW BYPASS_& 21ST NDDOT	CPU 100%_CITY COSTS	TRP GEOGRID	TOTAL
612	0115	REINFORCING STEEL-GRADE 60	LBS	79,570			79,570
612	0116	REINFORCING STEEL-GRADE 60-EPOXY COATED	LBS	347,194			347,194
616	0360	STRUCTURAL STEEL	LBS	4,836			4,836
622	0010	STEEL H-PILE TIPS HP 14 X 102	EA	39			39
622	0012	STEEL H-PILE TIPS 10 X 42	EA	20			20
622	0014	STEEL H-PILING POINTS 12 X 53	EA	28			28
622	0020	STEEL PILING HP 10 X 42	LF	5,540			5,540
622	0040	STEEL PILING HP 12 X 53	LF	3,780			3,780
622	0060	STEEL PILING HP 14 X 73	LF	1,040			1,040
622	0070	STEEL PILING HP 14 X 102	LF	4,680			4,680
624	0123	PEDESTRIAN RAILING	LF	349			349
624	0151	RAILING	LF	349			349
702	0100	MOBILIZATION	L SUM	0.95	0.05		1
704	0100	FLAGGING	MHR	6,000			6,000
704	1000	TRAFFIC CONTROL SIGNS	UNIT	3,718	466		4,184
704	1052	TYPE III BARRICADE	EA	40	16		56
704	1060	DELINEATOR DRUMS	EA	196	5		201
704	1067	TUBULAR MARKERS	EA	119	11		130
704	1080	STACKABLE VERTICAL PANELS	EA	107	45		152
704	1081	VERTICAL PANELS-BACK TO BACK	EA	10			10
704	1500	OBLITERATION OF PAVEMENT MARKING	SF	3,186			3,186
706	0400	FIELD OFFICE	EA	0.95	0.05		1
706	0500	AGGREGATE LABORATORY	EA	0.95	0.05		1
706	0550	BITUMINOUS LABORATORY	EA	0.95	0.05		1
706	0600	CONTRACTOR'S LABORATORY	EA	0.95	0.05		1
708	1531	INLET PROTECTION-FIBER ROLL 12IN	EA	8	4		12
708	1533	REMOVAL INLET PROTECTION-FIBER ROLL 12IN	EA	4	4		8
708	1540	INLET PROTECTION-SPECIAL	EA		4		4
708	1541	REMOVE INLET PROTECTION-SPECIAL	EA		4		4
709	0100	GEOSYNTHETIC MATERIAL TYPE G	SY			22,629	22,629
709	0105	GEOSYNTHETIC MATERIAL TYPE GT	SY			22,315	22,315
709	0151	GEOSYNTHETIC MATERIAL TYPE R1	SY	16,072	5,121		21,193

Revised 3/9/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SOIB-4-083(130)920	51	1

Begin Station / Location	Begin Offset	End Station / Location	End Offset	Pipe Installation (Pay Item)			Allowable Material	Required Diameter	Steel Pipe Coatings	Steel Pipe Corrugations or Spiral Ribs	Steel Pipe Minimum Thickness	R1 Fabric (Pay Item)	(*) End Sections		Applicable Backfill
													Begin	End	
				In	Bid Item	LF		In	Type		In	SY	EA	EA	
11+35	149' Lt	11+39	32' Rt	30	Pipe Conduit	182'	Reinforced Concrete Pipe - Class III**(barrel length = 180 LF)**	30				996	FES		714-28
11+05	59' Lt	11+35	60' Lt	18	Pipe Conduit	30'	Reinforced Concrete Pipe - Class III**(barrel length = 26 LF)**	18						FES	714-27
11+39	32' Rt			24	Pipe Conc. Reinf. CL III (Riser)	4'	Reinforced Concrete Pipe - Class III**(barrel length = 4 LF)**	24							
6+26	44' Rt	6+12	36' Lt	24	Pipe Conduit	81'	Reinforced Concrete Pipe - Class III**(barrell length = 76 LF)**	24				417	FES	FES	714-28
							Spiral Rib Steel Pipe	24	P	3/4, 1	0.064				
							Polypropylene Pipe (AASHTO M330, Type S)	24							
12+45	157' Rt	12+69	123' Lt	60	Pipe Conduit -	42'	Reinforced Concrete Pipe - Class III**(barrell length = 36 LF)**	60					FES	FES	714-27
							Corrugated Steel Pipe	60	Z, A, P	2, 3, 5	0.064				
							Spiral Rib Steel Pipe	60	Z, A, P	3/4, 1	0.064				
12+84	84' Lt	12+80	333' Rt	60	Pipe Conduit	418'	Reinforced Concrete Pipe - Class III**(barrel length = 412 LF)**	60				3251	FES	FES	714-25
12+82	44' Rt			24	Pipe Conc. Reinf. CL III (Riser)	10'	Reinforced Concrete Pipe - Class III**(barrel length = 10 LF)**	24							
12+81	160' Rt			24	Pipe Conc. Reinf. CL III (Riser)	4'	Reinforced Concrete Pipe - Class III**(barrel length = 4 LF)**	24							
24+57	43' Rt	25+23	43' Rt	18	Pipe Conduit - Approach	66'	Reinforced Concrete Pipe - Class III**(barrel length = 58 LF)**	18				846	FES	FES	Spec714.04A
							Spiral Rib Steel Pipe	18	P	3/4, 1	0.064				
							Polypropylene Pipe (AASHTO M330, Type S)	18							
27+80	41' Rt	27+97	93' Lt	30	Pipe Conduit	136'	Reinforced Concrete Pipe - Class III**(barrel length = 134 LF)**	30				763	FES		714-28
27+80	39' Rt			24	Pipe Conc. Reinf. CL III (Riser)	4'	Reinforced Concrete Pipe - Class III**(barrel length = 4 LF)**	24							
30+52	121' Lt	30+65	156' Lt	60	Pipe Conc. Reinf. CL III (Extension)	34'	Reinforced Concrete Pipe - Class III**(barrel length = 34 LF)**	60						FES	714-27
32+92	40' Rt	33+63	45' Rt	24	Pipe Conduit	71'	Reinforced Concrete Pipe - Class III**(barrel length = 66 LF)**	24				311	FES	FES	714-26
32+37	144' Lt	34+69	144' Lt	42	Pipe Conduit	232'	Reinforced Concrete Pipe - Class III**(barrel length = 226 LF)**	42				1347	FES	FES	714-28
74+03	96' Rt	72+99	97' Lt	24	Pipe Conduit	215'	Reinforced Concrete Pipe - Class III**(barrel length = 210 LF)**	24				1134	FES	FES	714-28
39+69	129' Lt	39+69	45' Rt	30	Pipe Conduit	174'	Reinforced Concrete Pipe - Class III**(barrel length = 172 LF)**	30				962	FES		714-28
39+69	42' Rt			24	Pipe Conc. Reinf. CL III (Riser)	4'	Reinforced Concrete Pipe - Class III**(barrel length = 4 LF)**	24							
48+15	71" Rt	48+19	69" Rt	18	Pipe Conduit	140'	Reinforced Concrete Pipe - Class III**(barrel length = 136 LF)**	18				654	FES	FES	714-28

Coatings: **Z** = Zinc
A = Aluminum
P = Polymeric (over Zinc or Aluminum)

Corrug **2** = 2-2/3"x1/2"
3 = 3"x1"
5 = 5"x1"

Spiral Ribs: **3/4** = 3/4"x3/4"@7-1/2"
1 = 3/4"x1"@11-1/2"

(*) The price bid for "Pipe Conduit" bid items includes end sections. Pipe Extensions shall pay for end sections seperately.
FES = Flared End Section
TES = Traversable End Section

This document was originally issued and sealed by James Douglas Rath, Registration Number PE- 4288, on 3/9/17 and the original document is stored at the North Dakota Department of Transportation

Allowable Pipe List
US Highway 83 Northwest Bypass

NOTES

100 SCOPE OF WORK: Work consists of installing two new cantilever signs at Sta. 132+68Rt and Sta. 156+00Rt.

105 WORK DRAWINGS: Submit work drawings of the sign structures for review.

Submit work drawings according to Section 616.04 A, “Work Drawings”. Include anchor bolts in the work drawings.

754 GALVANIZING: Galvanize the sign structures after fabrication of the sign structures are complete.

754 SHOP INSPECTION: The department reserves the right to conduct a shop inspection according to Section 616.04 B, “Shop Inspection”.

754 CLASS AE CONCRETE – SIGN FOUNDATIONS: Meet all requirements specified in Section 602 for the Class AE Concrete. Cast all drilled shafts continuously with no construction joints. Provide Grade 60 reinforcing steel that meets the requirements of Section 612. Temporary casing may be required to build the foundation. Remove the temporary casing as the concrete is being placed. Include the concrete, reinforcing bars, excavation, temporary casing, and labor required to build the sign foundations in the pay item “Class AE Concrete –Sign Foundations.”

754 STRUCTURAL STEEL: The following requirements apply to the individual member types.

1. Pipe: Shall meet the following specifications with the properties of Fy=45 KSI (Min.), Fu=62 KSI (Min.), and a minimum elongation equal to 20% in 2 inches; ASTM A500 Grade C, API-5L-X46, API-5L-X52, API-5L-X60. Do not splice any pipe that will be used for the cantilever structure.
2. Plates and Structural Shapes: ASTM A572 Grade 50.