

September 2, 2020

ADDENDUM 1 – JOB 1

TO: All prospective bidders on Project IM-1-094(191)166, Job No. 1 scheduled for the September 4, 2020 bid opening.

The following plans and request for proposal revision shall be made:

Plan Revisions:

See attached summary from Kirk J. Hoff, P.E. dated September 2, 2020 for an explanation.

Request for Proposal Revisions:

Remove and replace pages 5 thru 9 of 11 of the Proposal pages located at the beginning of the Request for Proposal with pages revised 9/2/2020.

Bid Item Changes are summarized in the Plan Addendum Summary and Approval.

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.

PHILLIP MURDOFF, P.E. - CONSTRUCTION SERVICES ENGINEER

80: jwj Enclosure





PLAN ADDENDUM SUMMARY AND APPROVAL

	Project Information							
Project:	IM-1-094(1	.91)166			PCN: 2185			
Location:	Location: Burleigh County Apple Creek Separation – 7 miles East of West Jct US 83							
Date: 09	9/02/2020		Lead Designer:	Jeff Rensch				
Bid Opening Date: 09/04/2020			JOB#: 1	Addendum#:	1			
Section	on Sheet Description of Change							
Proposal		Add State Option B	Add State Option Borrow Agreements to the Proposal					
800	1	_	Changed Item 612-0115 REINFORCING STEEL – GRADE 60 from Qty of 18,940 LBS to Qty of 19,120 LBS					
008	2	Changed Item 704-3	dded Item 704-3501 PORTABLE PRECAST CONCRETE MED BARRIER – 1920 LF hanged Item 704-3510 PRECAST CONCRETE MED BARRIER – STATE FURNISHED from Qty of 312 EA to Qty of 120 EA					
008	3	_	Sheet changed due to addition of new pay item on Sheet 008-2. Item 764-0145 W-BEAM GUARDRAIL END TERMINAL is now shown on this sheet.					
100	1	1920 LF	Item 704-3501 PORTAB 3510 PRECAST CONCRE to Qty of 120 EA					

ΔΡΡΚΟΥΔΙ

APPROVAL	
Should the revisions described above be processed as a pla	an addendum?
XYesNo	
_Kirk Hoff /s/ Kirk Hoff, P.E. – Design Engineer	_ <u>9/2/2020</u> Date

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

Job # 01, IM-1-094(191)166

Bridge Replacement

INDEX OF PROVISIONS

Road Restriction Permits

Hot Line Notice

NDDOT Supplemental Specifications dated October 1, 2019

Price Schedule for Miscellaneous Items dated October 1, 2014 (PS-1)

SP DBE Program - Race Neutral dated February 1, 2018

E.E.O. Affirmative Action Requirements dated March 15, 2014

Appendix A of the Title VI Assurances dated September 25, 2019

Appendix E of the Title VI Assurances dated September 25, 2019

SP Cargo Preference Act

Required Contract Provisions Federal Aid Construction Contracts (Form FHWA 1273 Rev. May 1, 2012)

SP Certified Payrolls, dated 9-6-17

SP DBE Project Payment Reporting, dated 10-3-17

Labor Rates from U.S. Department of Labor dated March 20, 2020 (Mod. No. 4)

On-The-Job Training Program dated October 1, 2016

SP 3(14) Temporary Erosion & Sediment Control Measures

SP 4(14) Federal Migratory Bird Treaty Act

SP 281(14) Buy America

SP 282(14) Certificate of Compliance

INDEX OF PROVISIONS

Page 2 of 2

SP 453(14) Haul Roads

SP 462(14) Limitations of Operations

SP 576(14) Architectural Surface Finish

SP 1147(14) Winter Suspension

Pathfinder 1 Borrow

Swenson 1 Borrow

SP Fuel Cost Adjustment Clause dated September 8, 2006

Page 4 of 4

BORROW OPTION AGREEMENT - CONTRACTOR

North Dakota Department of Transportation Environmental & Transportation Services

PCN 2 1 8 5 3	Project IM-1-094(191)166	В	ounty urleigh	
	Borrow Area Number Pathfinder 1		OA Numb BL-1191	per
Grantor(s) Pathfinder Land Company Limited Partnership				
Grantor(s) Address PO Box 192	City Beresford		State SD	ZIP Code 57004
Contact(s) Clark Nelson	Telephone Number(s 651-747-7785			
Location N½N½	Section 26	Township 139	R 7	ange 9
Approximate Total Borrow Cubic Yards 25000	Purchase Price Per C \$0.80	ubic Yard		
Legal Description of Optioned Area: Approximately 13.31 acres located in N½N½ of 26/139/7	9, Burleigh County,	North Dako	ta (See e	exhibit A)
If any material is removed from the option site, NDDOT o	r its assigns (Contra	ctor), will pe	erform th	e following:

NDDOT	Responsibilities
-------	------------------

- 1. Pay cash rent on the disturbed acreage at the rate of \$_75.00 per acre. If the optioned area is still being utilized for borrow after May 15th of the following year, an additional year's cash rent will be paid.
- 2. Make an additional rehabilitation payment on the disturbed acreage in the sum of \$_75.00 per acre.
- 3. Make an additional payment of \$ 300.00 per acre if the area excavated was seeded when the work commenced.(Cropland input cost as determined by NDDOT.)
- Final Payment will be made AFTER Pit Release is turned in and complete.

Contractor Responsibilities

- 1. The Contractor will contact the Grantor(s) to determine a removal plan and final leveling requirements. A copy of the final plan signed by the Grantor(s) and Contractor will be submitted to the NDDOT engineer before any borrow is removed.
- 2. \$ 10,000.00 Total agreed upon minimum payment shall be paid as follows:
 - a. Within 30 days of opening the borrow pit, the Contractor shall make an initial payment of \$___ the Grantor(s).
 - b. The remaining balance of the minimum payment (\$____ 2,000.00) plus the remaining balance of the royalty payment (based on the total amount of borrow quantity removed) shall be made by the contractor within 30 days after the Contractor has obtained a pit release from the Grantor(s).
- 3. Prior to excavation of material, a minimum depth of 6" topsoil will be stripped. In those areas where topsoil depth is in excess of 6", a maximum of 12" will be stripped. When the excavation work is completed the topsoil will be redistributed over the disturbed area. Adequate drainage will be provided as part of the reclamation of the disturbed property. If the reclaimed area is not cropland, it will be seeded to grass unless otherwise requested by the Grantor(s) within this agreement.

Disturbed acres will be tilled prior to redistributing topsoil. Total quantity may be less than specified if contractor works with Bismarck District to obtain some borrow from NDDOT ROW. Any crop Damage/loss payment(s) will be paid to the tenant, Ron Aberle.

Contractor shall notify the Grantor(s) in writing that they are exercising NDDOT's option and promptly present a detailed excavation plan to the Grantor(s).

Grantor(s) Initials	711	Dateos	DS	
VCVV	7/29/2020	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CN	7/22/2020

BORROW OPTION AGREEMENT - CONTRACTOR

North Dakota Department of Transportation Environmental & Transportation Services

PCN	Project IM-1-094(191)166		County Burleigh	
2 1 8 5 3	Borrow Area Number Swenson 1		COA Num	nber
Grantor(s) Rodney Swenson, Trustee of the Robert S. Swenson an 11/9/95 of 6800 71st Avenue NE, Bismarck, ND 58501	nd Ruth B. Swenson	Revocabl	e Living	Trust dated
Grantor(s) Address 6800 71st Avenue NE	City Bismarck		State ND	ZIP Code 58501
Contact(s) Rodney Swenson	Telephone Number(s) 701-391-6418			
Location W½W½	Section 23	Township 139)	Range 79
Approximate Total Borrow Cubic Yards 25000	Purchase Price Per C \$0.80	ubic Yard		
Legal Description of Optioned Area: Approximately 19.07 acres within the W½W½ of 23/139/	79, Burleigh County,	, North Da	akota	
If any material is removed from the option site, NDDOT of	or its assigns (Contra	ctor), will	perform	the following:
NDDOT Responsibilities				
Pay cash rent on the disturbed acreage at the rate of speing utilized for borrow after May 15th of the following.				
2. Make an additional rehabilitation payment on the distu	rbed acreage in the	sum of \$_		60.00 per acre.
Make an additional payment of \$ 300.00 per commenced.(Cropland input cost as determined by NE	acre if the area exca DDOT.)	vated wa	s seeded	d when the work
4. Final Payment will be made AFTER Pit Release is tur	ned in and complete			
Contractor Responsibilities				
 The Contractor will contact the Grantor(s) to determine of the final plan signed by the Grantor(s) and Contractor borrow is removed. 				
2. \$10,000.00 Total agreed upon minimum payme	ent shall be paid as fo	ollows:		
a. Within 30 days of opening the borrow pit, the Contra	actor shall make an i	nitial pay	ment of S	\$8,000.00 to

Additional Conditions:

requested by the Grantor(s) within this agreement.

the Grantor(s).

Remove and stockpile 12" of topsoil. Disturbed acres will be tilled prior to redistributing topsoil.

within 30 days after the Contractor has obtained a pit release from the Grantor(s).

Contractor shall notify the Grantor(s) in writing that they are exercising NDDOT's option and promptly present a detailed excavation plan to the Grantor(s).

b. The remaining balance of the minimum payment (\$ 2,000.00) plus the remaining balance of the royalty payment (based on the total amount of borrow quantity removed) shall be made by the contractor

3. Prior to excavation of material, a minimum depth of 6" topsoil will be stripped. In those areas where topsoil depth is in excess of 6", a maximum of 12" will be stripped. When the excavation work is completed the topsoil will be redistributed over the disturbed area. Adequate drainage will be provided as part of the reclamation of the disturbed property. If the reclaimed area is not cropland, it will be seeded to grass unless otherwise

Grantoi(s) Initials	Date
H)	6-3-28

Project: IM-1-094(191)166 (PCN-21853)

BID OPENING: September 04, 2020

BID ITEMS

Job 001

Page 5 of 11 Rev: 9/2/2020

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 Spec C				Approx.	Unit Price		Amount		
No.	No.	No.	Description	Unit	Quantity	\$\$\$\$\$	000	\$\$\$\$\$	00
001	103	0100	CONTRACT BOND	L SUM	1.				
002	202	0105	REMOVAL OF STRUCTURE	L SUM	1.				
003	202	0113	REMOVAL OF CONCRETE	CY	8.				
004	202	0132	REMOVAL OF BITUMINOUS SURFACING	SY	635.				
005	202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES	LF	20.				
006	202	0312	REMOVE EXISTING FENCE	LF	3,952.				
007	203	0101	COMMON EXCAVATION-TYPE A	CY	1,429.				
800	203	0109	TOPSOIL	CY	9,622.				
009	203	0122	TOPSOIL-DEPT OPTION BORROW AREA	CY	22,586.				
010	203	0140	BORROW-EXCAVATION	CY	51,667.				
011	210	0099	CLASS 1 EXCAVATION	L SUM	1.				
012	210	0201	FOUNDATION PREPARATION	EA	1.				
013	216	0100	WATER	M GAL	700.				
014	251	0200	SEEDING CLASS II	ACRE	21.930				
015	251	2000	TEMPORARY COVER CROP	ACRE	21.930				
016	253	0101	STRAW MULCH	ACRE	33.860				

BID OPENING: September 04, 2020

BID ITEMS

Job 001 Page 6 0

Page 6 of 11 Rev: 9/2/2020

Project: IM-1-094(191)166 (PCN-21853)

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.

		tota	. Do not carry unit prices further than three (3) de	cimal	places.					
	Spec	Code			Approx.	Unit Price	Unit Price		Amount	
No.	No.	No.	Description	Unit	Quantity	\$\$\$\$\$	000	\$\$\$\$\$	00	
017	255	0102	ECB TYPE 2	SY	158.					
018	255	0201	TRM TYPE 1	SY	520.					
019	260	0200	SILT FENCE SUPPORTED	LF	4,065.					
020	260	0201	REMOVE SILT FENCE SUPPORTED	LF	4,065.					
021	261	0112	FIBER ROLLS 12IN	LF	10,450.					
022	261	0113	REMOVE FIBER ROLLS 12IN	LF	3,630.					
023	302	0356	AGGREGATE SURFACE COURSE CL 13	TON	6,526.					
024	401	0060	PRIME COAT	GAL	4,010.					
025	401	0160	BLOTTER MATERIAL CL 44	TON	70.					
026	602	0130	CLASS AAE-3 CONCRETE	CY	393.200					
027	602	1130	CLASS AE-3 CONCRETE	CY	136.					
028	602	1134	PILE SUPPORTED APPROACH SLAB	SY	153.400					
029	602	1220	SINGLE SLOPE BARRIER	LF	109.					
030	602	1250	PENETRATING WATER REPELLENT TREATMENT	SY	1,390.					
031	604	9925	PRESTRESSED I-BEAM-72IN	LF	1,350.					
032	612	0115	REINFORCING STEEL-GRADE 60	LBS	19,120.					

BID OPENING: September 04, 2020

BID ITEMS

Job 001

Page 7 of 11 Rev: 9/2/2020

Project: IM-1-094(191)166 (PCN-21853)

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

		tota	. Do not carry unit prices further than three (3) de	ecimal	places.				
Item	Spec	Code			Approx.	Unit Price	1	Amount	
No.	No.	No.	Description	Unit	Quantity	\$\$\$\$\$	000	\$\$\$\$\$	00
033	612	0116	REINFORCING STEEL-GRADE 60-EPOXY COATED	LBS	87,209.				
034	622	0020	STEEL PILING HP 10 X 42	LF	960.				
035	622	0070	STEEL PILING HP 14 X 102	LF	1,950.				
036	702	0100	MOBILIZATION	L SUM	1.				
037	704	0100	FLAGGING	MHR	400.				
038	704	1000	TRAFFIC CONTROL SIGNS	UNIT	2,891.				
039	704	1045	ATTENUATION DEVICE-TYPE B-75	EA	8.				
040	704	1052	TYPE III BARRICADE	EA	10.				
041	704	1060	DELINEATOR DRUMS	EA	136.				
042	704	1067	TUBULAR MARKERS	EA	280.				
043	704	1087	SEQUENCING ARROW PANEL-TYPE C	EA	2.				
044	704	3501	PORTABLE PRECAST CONCRETE MED BARRIER	LF	1,920.				
045	704	3510	PRECAST CONCRETE MED BARRIER-STATE FURNISHED	EA	120.				
046	714	0310	PIPE CONC REINF 18IN CL III	LF	12.				
047	714	4099	PIPE CONDUIT 18IN-APPROACH	LF	92.				
048	714	4106	PIPE CONDUIT 24IN-APPROACH	LF	56.				

Project: IM-1-094(191)166 (PCN-21853)

BID OPENING: September 04, 2020

BID ITEMS

Job 001

Page 8 of 11 Rev: 9/2/2020

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 Spec					Approx.	Unit Price	Amount		
No.	No.	No.	Description	Unit	Quantity	\$\$\$\$\$	000	\$\$\$\$\$	00
049	714	7030	PIPE PVC 12IN	LF	335.				
050	714	9660	REMOVE & RELAY END SECTION-ALL TYPE & SIZES	EA	1.				
051	720	0110	RIGHT OF WAY MARKERS	EA	27.				
052	720	0125	ALIGNMENT MONUMENTS	EA	2.				
053	720	0130	IRON PIN R/W MONUMENTS	EA	21.				
054	720	0135	IRON PIN REFERENCE MONUMENTS	EA	4.				
055	748	0141	CURB & GUTTER-TYPE 1 SPECIAL	LF	60.				
056	752	0200	FENCE BARBED WIRE 4 STRAND	LF	790.				
057	752	0400	FENCE BARBED WIRE 5 STRAND	LF	2,000.				
058	752	0993	FENCE TERMINAL	EA	4.				
059	752	3140	CORNER ASSEMBLY BARBED WIRE	EA	2.				
060	752	4100	DOUBLE BRACE ASSEMBLY BARBED WIRE	EA	2.				
061	754	0112	FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	38.				
062	754	0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	96.				
063	754	0592	RESET SIGN PANEL	EA	1.				
064	754	0593	RESET SIGN SUPPORT	EA	1.				

Project: IM-1-094(191)166 (PCN-21853)

BID OPENING: September 04, 2020

BID ITEMS

Job 001

Page 9 of 11 Rev: 9/2/2020

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and
Blader mast type or nearly print and prices in numerals, make extensions for each item, and

	total. Do not carry unit prices further than three (3) decimal places.									
Item	Spec	Code			Approx.	Unit Price		Amount 000 \$\$\$\$\$		
No.	No.	No.	Description	Unit	Quantity	\$\$\$\$\$	000	\$\$\$\$\$	00	
065	754	0805	OBJECT MARKERS - CULVERTS	EA	1.					
066	764	0131	W-BEAM GUARDRAIL	LF	362.					
067	764	0145	W-BEAM GUARDRAIL END TERMINAL	EA	4.					
068	764	0151	REMOVE W-BEAM GUARDRAIL & POSTS	LF	765.					
069	764	2081	REMOVE END TREATMENT & TRANSITION	EA	6.					
070	764	8080	MODIFY BARREL ATTENUATION DEVICE	EA	2.					
071	766	0100	MAILBOX-ALL TYPES	EA	1.					
072	930	3000	BRIDGE BENCH MARKS	SET	1.					
073	930	7012	ROADWAY CANOPY	LSUM	1.					
074	930	8600	ELASTOMERIC BEARING PAD	SF	40.					
075	930	8686	AGGREGATE SLOPE PROTECTION	SY	426.					
076	930	9537	ABUTMENT UNDERDRAIN SYSTEM	EA	2.					
			TOTAL SUM BID							

ESTIMATE OF QUANTITIES

I	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	IM-1-094(191)166	8	1

REVISED 09/02/2020

			REVISED 09/02/2020
SPEC CODE ITEM DESCRIPTION	UNIT	MAINLINE	TOTAL
103 0100 CONTRACT BOND	L SUM	1	1
202 0105 REMOVAL OF STRUCTURE	L SUM	1	1
202 0113 REMOVAL OF CONCRETE	CY	8	8
202 0132 REMOVAL OF BITUMINOUS SURFACING	SY	635	635
202 0174 REMOVAL OF PIPE ALL TYPES AND SIZES	LF	20	20
202 0312 REMOVE EXISTING FENCE	LF	3,952	3,952
203 0101 COMMON EXCAVATION-TYPE A	CY	1,429	1,429
203 0109 TOPSOIL	CY	9,622	9,622
203 0122 TOPSOIL-DEPT OPTION BORROW AREA	CY	22,586	22,586
203 0140 BORROW-EXCAVATION	CY	51,667	51,667
210 0099 CLASS 1 EXCAVATION	L SUM	1	1
210 0201 FOUNDATION PREPARATION	EA	1	1
216 0100 WATER	M GAL	700	700
251 0200 SEEDING CLASS II	ACRE	21.93	21.93
251 2000 TEMPORARY COVER CROP	ACRE	21.93	21.93
253 0101 STRAW MULCH	ACRE	33.86	33.86
255 0102 ECB TYPE 2	SY	158	158
255 0201 TRM TYPE 1	SY	520	520
260 0200 SILT FENCE SUPPORTED	LF	4,065	4,065
260 0201 REMOVE SILT FENCE SUPPORTED	LF	4,065	4,065
261 0112 FIBER ROLLS 12IN	LF	10,450	10,450
261 0113 REMOVE FIBER ROLLS 12IN	LF	3,630	3,630
302 0356 AGGREGATE SURFACE COURSE CL 13	TON	6,526	6,526
401 0060 PRIME COAT	GAL	4,010	4,010
401 0160 BLOTTER MATERIAL CL 44	TON	70	70
602 0130 CLASS AAE-3 CONCRETE	CY	393.2	393.2
602 1130 CLASS AE-3 CONCRETE	CY	136	136
602 1134 PILE SUPPORTED APPROACH SLAB	SY	153.4	153.4
602 1220 SINGLE SLOPE BARRIER	LF	109	109
602 1250 PENETRATING WATER REPELLENT TREATMENT	SY	1,390	1,390
604 9925 PRESTRESSED I-BEAM-72IN	LF	1,350	1,350
612 0115 REINFORCING STEEL-GRADE 60	LBS	19,120	19,120
612 0116 REINFORCING STEEL-GRADE 60-EPOXY COATED	LBS	87,209	87,209

ESTIMATE OF QUANTITIES

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	IM-1-094(191)166	8	2

REVISED 09/02/2020

				REVISED 09/02/2020
SPEC CODE ITEM I	DESCRIPTION	UNIT	MAINLINE	TOTAL
622 0020 STEEL	PILING HP 10 X 42	LF	960	960
622 0070 STEEL	PILING HP 14 X 102	LF	1,950	1,950
702 0100 MOBILI	ZATION	L SUM	1	1
704 0100 FLAGGI	NG	MHR	400	400
704 1000 TRAFFI	C CONTROL SIGNS	UNIT	2,891	2,891
704 1045 ATTENL	JATION DEVICE-TYPE B-75	EA	8	8
704 1052 TYPE I	III BARRICADE	EA	10	10
704 1060 DELINE	ATOR DRUMS	EA	136	136
704 1067 TUBULA	AR MARKERS	EA	280	280
704 1087 SEQUEN	CING ARROW PANEL-TYPE C	EA	2	2
704 3501 PORTA	BLE PRECAST CONCRETE MED BARRIER	LF	1,920	1,920
704 3510 PRECAS	ST CONCRETE MED BARRIER-STATE FURNISHED	EA	120	120
714 0310 PIPE 0	CONC REINF 18IN CL III	LF	12	12
714 4099 PIPE C	CONDUIT 18IN-APPROACH	LF	92	92
714 4106 PIPE C	CONDUIT 24IN-APPROACH	LF	56	56
714 7030 PIPE F	PVC 12IN	LF	335	335
714 9660 REMOVE	& RELAY END SECTION-ALL TYPE & SIZES	EA	1	1
720 0110 RIGHT	OF WAY MARKERS	EA	27	27
720 0125 ALIGN	MENT MONUMENTS	EA	2	2
720 0130 IRON F	PIN R/W MONUMENTS	EA	21	21
720 0135 IRON F	PIN REFERENCE MONUMENTS	EA	4	4
748 0141 CURB 8	GUTTER-TYPE 1 SPECIAL	LF	60	60
752 0200 FENCE	BARBED WIRE 4 STRAND	LF	790	790
752 0400 FENCE	BARBED WIRE 5 STRAND	LF	2,000	2,000
752 0993 FENCE	TERMINAL	EA	4	4
752 3140 CORNER	R ASSEMBLY BARBED WIRE	EA	2	2
752 4100 DOUBLE	BRACE ASSEMBLY BARBED WIRE	EA	2	2
754 0112 FLAT S	SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	38	38
754 0206 STEEL	GALV POSTS-TELESCOPING PERFORATED TUBE	LF	96	96
754 0592 RESET	SIGN PANEL	EA	1	1
754 0593 RESET	SIGN SUPPORT	EA	1	1
754 0805 OBJECT	MARKERS - CULVERTS	EA	1	1
764 0131 W-BEAN	1 GUARDRAIL	LF	362	362

ESTIMATE OF QUANTITIES

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	IM-1-094(191)166	8	3

REVISED 09/02/2020

SPEC CODE ITEM DESCRIPTION	UNIT M	AINLINE	TOTAL
764 0145 W-BEAM GUARDRAIL END TERMINAL	EA	4	4
764 0151 REMOVE W-BEAM GUARDRAIL & POSTS	LF	765	765
764 2081 REMOVE END TREATMENT & TRANSITION	EA	6	6
764 8080 MODIFY BARREL ATTENUATION DEVICE	EA	2	2
766 0100 MAILBOX-ALL TYPES	EA	1	1
930 3000 BRIDGE BENCH MARKS	SET	1	1
930 7012 ROADWAY CANOPY	L SUM	1	1
930 8600 ELASTOMERIC BEARING PAD	SF	40	40
930 8686 AGGREGATE SLOPE PROTECTION	SY	426	426
930 9537 ABUTMENT UNDERDRAIN SYSTEM	EA	2	2

Revised 9/2/2020

ND	IM-1-094(191)166	100	1
SIAIL	FNOSECT NO.	NO.	NO.
STATE	PROJECT NO.	SECTION	SHEET

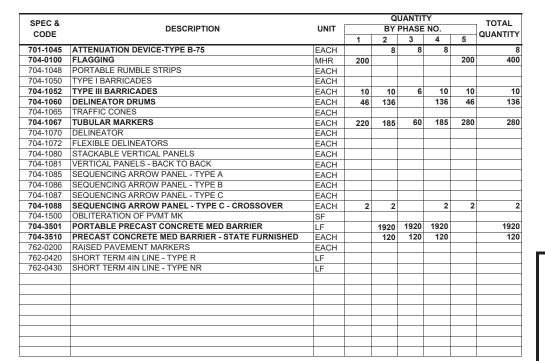
SIGN NUMBER	SIGN	DESCRIPTION		RE	MOU QUIF HAS	RED)	TOTAL AMOUNT	UNITS PER AMOUNT	UNITS SUB TOTAL
NOMBER	OILL		1	2	_		_	REQUIRED		
E5-1-48	48"x48"	EXIT GORE							35	
G20-1-60	60"x24"	ROAD WORK NEXT MILES							28	
G20-1b-60	60"x24"	NO WORK IN PROGRESS (Sign and installation only)		4	4	4	4	4	18 26	40
G20-2-48 G20-4-36	48"x24" 36"x18"	PILOT CAR FOLLOW ME (Mounted to back of pilot car)	4	4	4	4	4	4	2 6 18	10
G20-4-30 G20-10-108	108"x48"	1 /	2	2	2	2	2	2	70	14
G20-10-100 G20-50a-72	72"x36"	ROAD WORK NEXT MILES RT & LT ARROWS	_	_		_	_		43	
G20-52a-72	72"x24"	ROAD WORK NEXT MILES RT or LT ARROW							36	
G20-55-96	96"x48"	SPEED LIMIT ENFORCED - MINIMUM FEE \$80 WHEN WORKERS PRESENT	4	4	4	4	4	4	59	23
M1-1-36	36"x36"	INTERSTATE ROUTE MARKER (Post and installation only)							10	
M1-4-24	24"x24"	U.S. ROUTE MARKER (Post and installation only)							10	
M1-5-24	24"x24"	STATE ROUTE MARKER (Post and installation only)							10	
M3-1-24	24"x12"	NORTH (Mounted on route marker post)							7	
M3-2-24 M3-3-24	24"x12" 24"x12"	EAST (Mounted on route marker post)							7	
M3-4-24	24 X12 24"x12"	SOUTH (Mounted on route marker post) WEST (Mounted on route marker post)							7	
M4-8-24	24"x12"	DETOUR (Mounted on route marker post)							7	
M4-9-30	30"x24"	DETOUR ARROW RIGHT or LEFT/AHD AND RT or LT							15	
VI4-10-48	48"x18"	DETOUR (INSIDE ARROW) RIGHT or LEFT (Mounted on barricade)							7	
M5-1-21	21"x15"	ADVANCE TURN ARROW RT or LT(Mounted on route marker post)							7	
M5-1-30	30"x21"	ADVANCE TURN ARROW RT or LT(Mounted on route marker post)							9	
M6-1-21	21"x15"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post)							7	
M6-1-30	30"x21"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post)	<u> </u>						9	
M6-3-21	21"x15"	DIRECTIONAL ARROW UP (Mounted on route marker post)							7	
R1-1-48	48"x48"	STOP YIELD	4	4	4	4	4	4	32	12
R1-2-60	60"x60"		4				4	4	29	44
R2-1-36 R2-1-48	36"x48" 48"x60"	SPEED LIMIT (Portable only) SPEED LIMIT	8	15	10	15	8	4 15	30 39	12 58
R2-1-48 R2-1aP-24	24"x18"	MINIMUM FEE \$80 (Mounted on Speed Limit post)	8	11	4	11	8	15	10	11
R3-2-48	48"x48"	NO LEFT TURN			-				35	
R4-1-48	48"x60"	DO NOT PASS		2		2		2	39	
R4-7-48	48"x60"	KEEP RIGHT		2		2		2	39	
R5-1-48	48"x48"	DO NOT ENTER							35	
R6-1-54	54"x18"	ONE WAY RIGHT or LEFT (Mounted on STOP or DO NOT ENTER post)							14	
R7-1-12	12"x18"	NO PARKING ANY TIME							11	
R10-6-24	24"x36"	STOP HERE ON RED							16	
R11-2-48	48"x30"	ROAD CLOSED (Mounted on barricade)	2	4	2	4	2	4	12	4
R11-2a-48	48"x30"	STREET CLOSED (Mounted on barricade)							12	
R11-3a-60 R11-3b-60	60"x30"	ROAD CLOSEDMILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade) BRIDGE OUTMILES AHEAD LOCAL TRAFFIC ONLY	3	3	3	3	3	3	15 31	
R11-36-60	60"x30"	STREET CLOSED MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)	3	3	3	3	3	3	15	9
R11-4a-60	60"x30"	STREET CLOSED TO THRU TRAFFIC (Mounted on barricade)							15	
W1-3-48	48"x48"	REVERSE TURN RIGHT or LEFT							35	
W1-4-48	48"x48"	REVERSE CURVE RIGHT or LEFT		3		3		3	35	10
N1-4b-48	48"x48"	TWO LANE REVERSE CURVE RIGHT or LEFT							35	
W1-6-48	48"x24"	ONE DIRECTION LARGE ARROW		2		2		2	26	ŧ
W3-1-48	48"x48"	STOP AHEAD							35	
W3-3-48	48"x48"	SIGNAL AHEAD							35	
N3-4-48	48"x48"	BE PREPARED TO STOP							35	
W3-5-48	48"x48"	SPEED REDUCTION AHEAD LANE ENDS RIGHT or LEFT	4	4	4	4	4	4	35	14
W4-2-48 W5-1-48	48"x48" 48"x48"	ROAD NARROWS	4	4		4	4	4	35 35	12
N5-8-48	46 X46 48"x48"	THRU TRAFFIC RIGHT LANE		1					35	
N5-9-48	48"x48"	ROAD WORK TRAFFIC ONLY DOWN & LT or RT ARROW							35	
N6-3-48	48"x48"	TWO WAY TRAFFIC		2		2		2	35	
N8-1-48	48"x48"	BUMP	L	L		L			35	
N8-3-48	48"x48"	PAVEMENT ENDS							35	
N8-7 - 48	48"x48"	LOOSE GRAVEL							35	
N8-11-48	48"x48"	UNEVEN LANES	<u> </u>						35	
N8-12-48	48"x48"	NO CENTER LINE							35	
N8-17-48	48"x48"	SHOULDER DROP-OFF SYMBOL							35	
N8-53-48	48"x48"	TRUCKS ENTERING HIGHWAY TRUCKS ENTERING AHEAD or FT or MILE	_			_			35	
N8-54-48 N8-55-48	48"x48" 48"x48"		2	2	2	2	2	2	35 35	
V8-55-48 V8-56-48	48"x48"	TRUCKS CROSSING AHEAD or FT or _ MILE TRUCKS EXITING HIGHWAY							35 35	
N9-3a-48	48"x48"	CENTER LANE CLOSED SYMBOL							35	
V12-2-48	48"x48"	LOW CLEARANCE							35	
W13-1P-30	30"x30"	MPH ADVISORY SPEED PLAQUE (Mounted on warning sign post)							14	
N14-3-64	64"x48"	NO PASSING ZONE							28	
N16-2P-30	30"x24"	FEET PLAQUE (Mounted on warning sign post)							10	
N20-1-48	48"x48"	ROAD WORK AHEAD or _FT or _ MILE	4	4	4	4	4	4	35	14
N20-2-48	48"x48"	DETOUR AHEAD or FT or _ MILE							35	
N20-3-48	48"x48"	ROAD or STREET CLOSED AHEAD or FT or _ MILE		_		_			35	
N20-4-48	48"x48"	ONE LANE ROAD AHEAD or FT or _ MILE	ļ.,	ļ.,				_	35	
N20-5-48	48"x48"	RIGHT or CENTER or LEFT LANE CLOSED AHEAD or FT or _ MILE	4	4		4	4	4	35	14
N20-7-48	48"x48"	FLAGGER STOP, SLOW PADDLE Back to Back	2				2	2	35	7
N20-8-18 N20-52P-54	18"x18" 54"x12"	STOP - SLOW PADDLE Back to Back	2	2		2	2	2	5 12	1
N20-52P-54 N21-1-48	48"x48"	NEXTMILES (Mounted on warning sign post) WORKERS						2	35	,
W21-1-46 W21-2-48	46 X46 48"x48"	FRESH OIL							35	
N21-2-46 N21-3-48	48"x48"	ROAD MACHINERY AHEAD or FT or MILE		 					35	
		1		1	1		1	1		i .

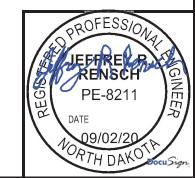
SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED BY PHASE NO.) .	TOTAL AMOUNT	UNITS PER	UNITS
			1		3	4		REQUIRED	AMOUNT	TOTAL
W21-5a-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED							35	
W21-5b-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED AHEAD or FT or _ MILE			4			4	35	140
W21-6-48	48"x48"	SURVEY CREW							35	
W21-50-48	48"x48"	BRIDGE PAINTING AHEAD or FT							35	
W21-51-48	48"x48"	MATERIAL ON ROADWAY							35	
W21-52-48	48"x48"	PAVEMENT BREAKS							35	
W21-53-48	48"x48"	RUMBLE STRIPS AHEAD							35	
W22-8-48	48"x48"	FRESH OIL LOOSE ROCK							35	

SPECIAL SIGNS

SPEC & CODE

704-1000 TRAFFIC CONTROL SIGNS TOTAL UNITS 2891 NOTE: If additional signs are required, units will be calculated using the formula from Section III-18.06 of the Design Manual. http://www.dot.nd.gov/





Traffic Control Devices List