

STATE

PROJECT NO.

PCN

SECTION NO.

SHEET NO.

ND

HEN-1-094(243)102

24190

1

1

NORTH DAKOTA

DEPARTMENT OF TRANSPORTATION

HEN-1-094(243)102

Morton County

Eagles Nest Interchange

Exit 102 - County Hwy 139

Signing & Pavement Marking

GOVERNING SPECIFICATIONS

Date Published and Adopted by the North Dakota Department of Transportation

Standard Specifications

7/1/2025

Supplemental Specifications

NONE

PROJECT NUMBER \ DESCRIPTION

NET MILES

GROSS MILES

HEN-1-094(243)102

N

R.90 W.

R.89 W.

71ST AVE SW

72ND AVE SW

TH ST SW

TH ST SW

Big Muddy Creek

Big Muddy Creek

101

101

102

102

103

103

102.900

102.900

102.911

102.911

102.903

102.903

102.819

102.819

102.82

102.82

102.5

102.5

0094-102.819 S

0094-102.819 S

0094-102.903 L

0094-102.903 L

0094-103.383 S

0094-103.383 S

0094-103.362

0094-103.362

0094-102.911 R

0094-102.911 R

Project begin

RP 102.5

Project End

RP 102.82

STATE COUNTY MAP

DIME

BURKE

RENVILLE

BOTTINEAU

ROLLETTE

TOWNER

CAVALIER

PEMBINA

WILLIAMS

MOUNTAIN

WARD

MC HENRY

PIERCE

BENSON

RAMSEY

WALSH

MC KENZIE

DUNN

MERCER

SHERIDAN

WELLS

EDDY

NELSON

GRAND FORKS

GOLDEN VALLEY

BILLINGS

STARK

OLIVER

MORTON

BURLEIGH

KIDDER

STUTSMAN

BARNES

CASS

SLOPE

HETTINGER

GRANT

EMMONS

LOGAN

LA MOURE

RANSOM

RICHLAND

BOWMAN

ADAMS

SIoux

MC INTOSH

DICKEY

SARGENT

DESIGNER

Jaycee Allery

DESIGNER

DESIGNER

ND DEPARTMENT OF TRANSPORTATION

OFFICE OF PROJECT DEVELOPMENT

Chad Frisinger

Chad Frisinger

01/14/26

Design Division

NDDOT

REGISTERED PROFESSIONAL ENGINEER

MICHAEL E. JOHNSON

PE-6389

DATE

01/14/26

NORTH DAKOTA

1/13/2026 1:49:13 PM jallery R:\project\10094102.243\Traffic\Sheets\001TS_001_TitleSheet.dgn

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PLAN SECTIONS			LIST OF STANDARD DRAWINGS						
Section	Page(s)	Description	Number	Description					
1	1	Title Sheet	D-101-1, 2,3,4	NDDOT Abbreviations					
2	1	Table of Contents	D-101-10	NDDOT Utility Company and Organization Abbreviations					
6	1	Notes	D-101-20, 21	Line Styles					
8	1	Quantities	D-101-30, 31,32,33	Symbols					
100	1 - 3	Work Zone Traffic Control	D-704-7	Breakaway Systems For Construction Zone Signs - Perforated Tube					
110	1 - 4	Signing	D-704-8	Breakaway Systems For Construction Zone Signs - U-Channel Post					
120	1 - 3	Pavement Marking	D-704-9	Construction Sign Details - Terminal And Guide Signs					
			D-704-10	Construction Sign Details - Regulatory Signs					
			D-704-11, 11A	Construction Sign Details - Warning Signs					
			D-704-13	Barricade And Channelizing Device Details					
			D-704-14	Construction Sign Punching And Mounting Details					
			D-704-50	Portable Sign Support Assembly					
			D-754-1	Pipe Or W-Shape Assembly Details					
			D-754-2	Breakaway Coupler System For Standard Pipe - Stub Post					
			D-754-3	Breakaway System for Standard Pipe - Stub Post					
			D-754-4	Multi-Directional Breakaway System for Standard Pipe - Stub Post					
			D-754-5	Foundation Data For Steel Supports					
			D-754-6	Hinge Plate, Fuse Plate, And Foundation Details For Standard Pipe					
			D-754-7	Pipe Support And Sign Mounting Details					
			D-762-1	Pavement Marking Message Details					
			D-762-5	Pavement Marking for Standard 90 Degree Flared Intersection-(No Center Left Turn Lane on Major Road)					

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NOTES

GENERAL NOTES

107-115 RAILROAD PROTECTIVE LIABILITY INSURANCE: This project is within the BNSF Railway Company right-of-way. The type of work that will be performed within the railroad right-of-way is sign installation/removal and pavement markings. Direct inquiries regarding protective liability insurance to:

Rosa Martinez
Marsh USA Inc.
4400 Comerica Bank Tower
1717 Main Street
Dallas, TX 75201-7357, USA
214-303-8519
Rosa.M.Martinez@marsh.com

Obtain information regarding crossing number 087510V, 087509B and 087508U from the Federal Railroad Administration website: <http://safetydata.fra.dot.gov/Officeofsafety/>.

Include the cost of Railway Insurance in the contract unit price for “RAILWAY PROTECTION INSURANCE”.

SECTION 110

754-P01 REFLECTIVE STRIPS: Install 2 inch wide red reflective strip on the side of the support that faces the same direction as the sign face.

Use reflective material that meets the requirements of Section 894.02 E, “Type XI Retroreflective Sheeting”.

Install the strips to all R1-1, R5-1 & R5-1a signs at both intersections listed in sign location tables.

Include the cost of furnishing and installing retroreflective strips in the contract unit price for “GALV STEEL POST-STANDARD PIPE”.

SECTION 120

762-050 PAVEMENT MARKING: If the Engineer and Contractor agree, plan quantity will be used as the measurement for payment for pavement marking items.



ESTIMATE OF QUANTITIES

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SPEC CODE	ITEM DESCRIPTION	UNIT	MAINLINE	TOTAL
103	0100 CONTRACT BOND	L SUM	1	1
107	0100 RAILWAY PROTECTION INSURANCE	L SUM	1	1
702	0100 MOBILIZATION	L SUM	1	1
704	0100 FLAGGING	MHR	40	40
704	1000 TRAFFIC CONTROL SIGNS	UNIT	458	458
704	1067 TUBULAR MARKERS	EA	30	30
704	1500 OBLITERATION OF PAVEMENT MARKING	SF	326	326
754	0110 FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	133	133
754	0112 FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	36	36
754	0210 GALV STEEL POST-STANDARD PIPE	LF	220	220
754	0592 RESET SIGN PANEL	EA	4	4
754	1100 CLASS AE CONCRETE-SIGN FOUNDATIONS	CY	5.8	5.8
754	1104 REMOVE SIGN FOUNDATION	EA	10	10
762	0131 EPOXY PVMT MK 6IN LINE-GROOVED	LF	1,115	1,115
762	0132 EPOXY PVMT MK 8IN LINE-GROOVED	LF	679	679
762	0135 EPOXY PVMT MK 24IN LINE-GROOVED	LF	28	28
762	0136 EPOXY PVMT MK MESSAGE-GROOVED	SF	202	202

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SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
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)		18	
G20-2-48	48"x24"	END ROAD WORK	4	26	104
G20-4-36	36"x18"	PILOT CAR FOLLOW ME (Mounted to back of pilot car)		18	
G20-4b-36	36"x30"	WAIT FOR PILOT CAR		18	
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 \$150 WHEN WORKERS PRESENT		59	
M1-1-36	36"x36"	INTERSTATE ROUTE MARKER (Post and installation only)		11	
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	24"x12"	EAST (Mounted on route marker post)		7	
M3-3-24	24"x12"	SOUTH (Mounted on route marker post)		7	
M3-4-24	24"x12"	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	
M4-10-48	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)		9	
M6-3-21	21"x15"	DIRECTIONAL ARROW UP (Mounted on route marker post)		7	
R1-1-48	48"x48"	STOP	2	32	64
R1-2-60	60"x60"	YIELD		29	
R2-1-36	36"x48"	SPEED LIMIT ____ (Portable only)		30	
R2-1-48	48"x60"	SPEED LIMIT ____		39	
R2-1aP-24	24"x18"	MINIMUM FEE \$150 (Mounted on Speed Limit post)		10	
R3-2-48	48"x48"	NO LEFT TURN		35	
R4-1-48	48"x60"	DO NOT PASS		39	
R4-7-48	48"x60"	KEEP RIGHT		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)		12	
R11-2a-48	48"x30"	STREET CLOSED (Mounted on barricade)		12	
R11-3a-60	60"x30"	ROAD CLOSED ____ MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)		15	
R11-3c-60	60"x30"	STREET CLOSED ____ MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)		15	
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		35	
W1-4b-48	48"x48"	TWO LANE REVERSE CURVE RIGHT or LEFT		35	
W1-6-48	48"x24"	ONE DIRECTION LARGE ARROW		26	
W3-1-48	48"x48"	STOP AHEAD		35	
W3-3-48	48"x48"	SIGNAL AHEAD		35	
W3-4-48	48"x48"	BE PREPARED TO STOP	2	35	70
W3-5-48	48"x48"	SPEED REDUCTION AHEAD		35	
W4-2-48	48"x48"	LANE ENDS RIGHT or LEFT		35	
W5-1-48	48"x48"	ROAD NARROWS		35	
W5-8-48	48"x48"	THRU TRAFFIC RIGHT LANE		35	
W5-9-48	48"x48"	ROAD WORK TRAFFIC ONLY DOWN & LT or RT ARROW		35	
W6-3-48	48"x48"	TWO WAY TRAFFIC		35	
W8-1-48	48"x48"	BUMP		35	
W8-3-48	48"x48"	PAVEMENT ENDS		35	
W8-7-48	48"x48"	LOOSE GRAVEL		35	
W8-11-48	48"x48"	UNEVEN LANES		35	
W8-12-48	48"x48"	NO CENTER LINE		35	
W8-17-48	48"x48"	SHOULDER DROP-OFF SYMBOL		35	
W8-53-48	48"x48"	TRUCKS ENTERING HIGHWAY		35	
W8-54-48	48"x48"	TRUCKS ENTERING AHEAD or ____ FT or ____ MILE		35	
W8-55-48	48"x48"	TRUCKS CROSSING AHEAD or ____ FT or ____ MILE		35	
W8-56-48	48"x48"	TRUCKS EXITING HIGHWAY		35	
W9-3a-48	48"x48"	CENTER LANE CLOSED SYMBOL		35	
W13-1P-30	30"x30"	____ MPH ADVISORY SPEED PLAQUE (Mounted on warning sign post)		14	
W14-3-64	64"x48"	NO PASSING ZONE		28	
W16-2P-30	30"x24"	____ FEET PLAQUE (Mounted on warning sign post)		10	
W20-1-48	48"x48"	ROAD WORK AHEAD or ____ FT or ____ MILE	4	35	140
W20-2-48	48"x48"	DETOUR AHEAD or ____ FT or ____ MILE		35	
W20-3-48	48"x48"	ROAD or STREET CLOSED AHEAD or ____ FT or ____ MILE		35	
W20-4-48	48"x48"	ONE LANE ROAD AHEAD or ____ FT or ____ MILE		35	
W20-5-48	48"x48"	RIGHT or CENTER or LEFT LANE CLOSED AHEAD or ____ FT or ____ MILE		35	
W20-7-48	48"x48"	FLAGGER	2	35	70
W20-8-18	18"x18"	STOP - SLOW PADDLE Back to Back	2	5	10
W20-52P-54	54"x12"	NEXT ____ MILES (Mounted on warning sign post)		12	
W21-1-48	48"x48"	WORKERS		35	
W21-2-48	48"x48"	FRESH OIL		35	
W21-3-48	48"x48"	ROAD MACHINERY AHEAD or ____ FT or ____ MILE		35	
W21-5-48	48"x48"	SHOULDER WORK		35	
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		35	

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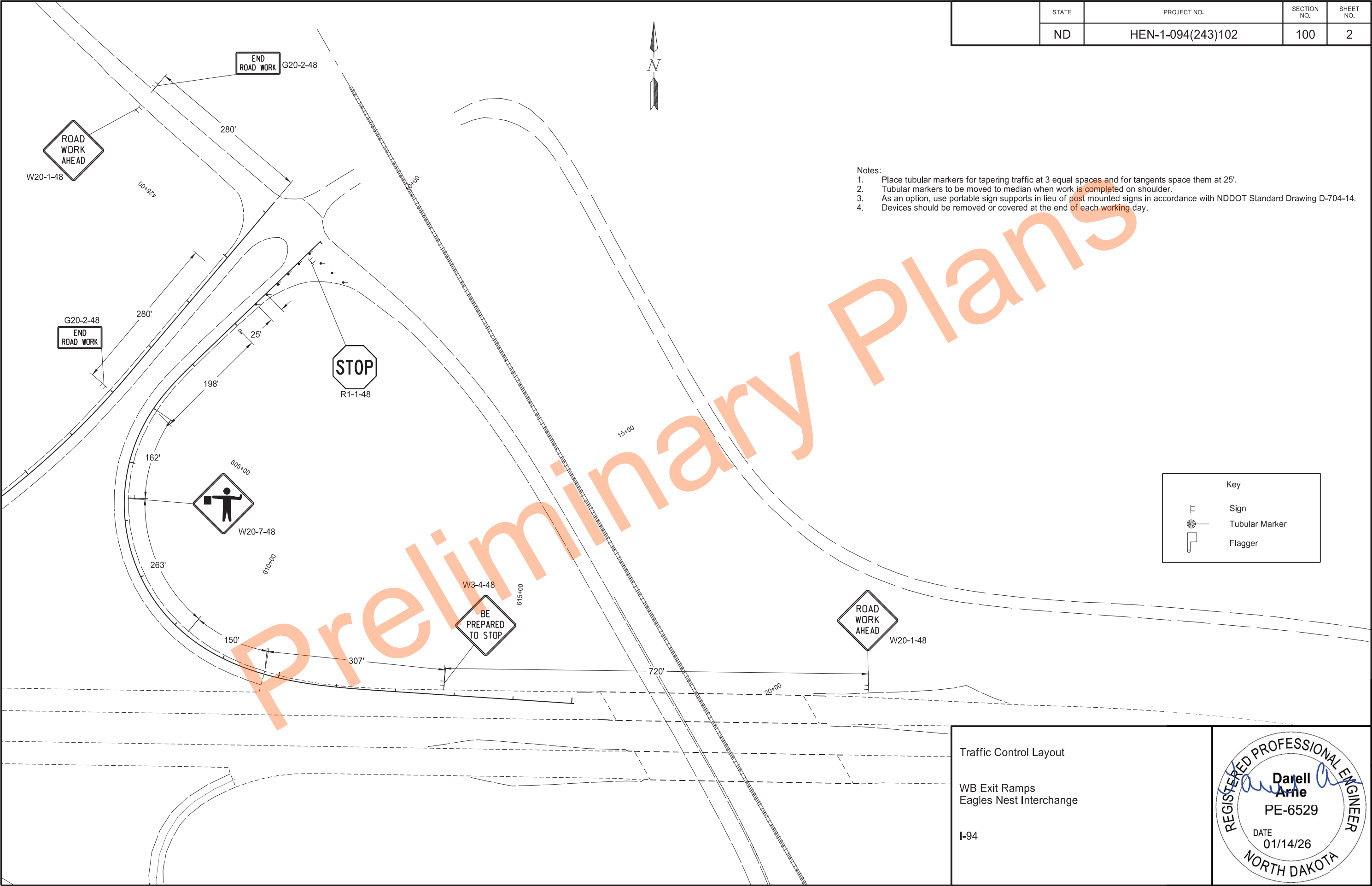
SPEC & CODE			
704-1000	TRAFFIC CONTROL SIGNS	TOTAL UNITS	458

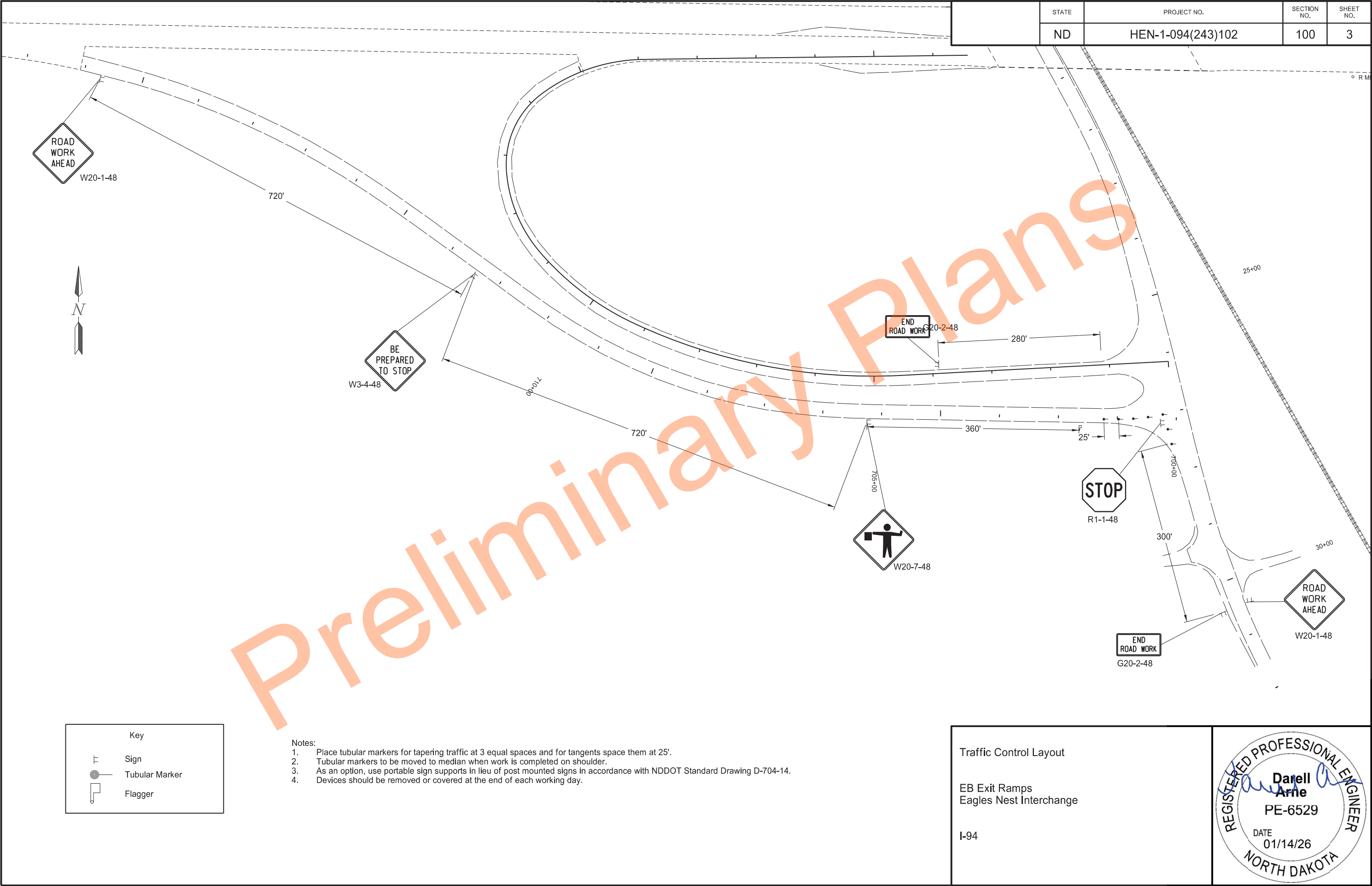
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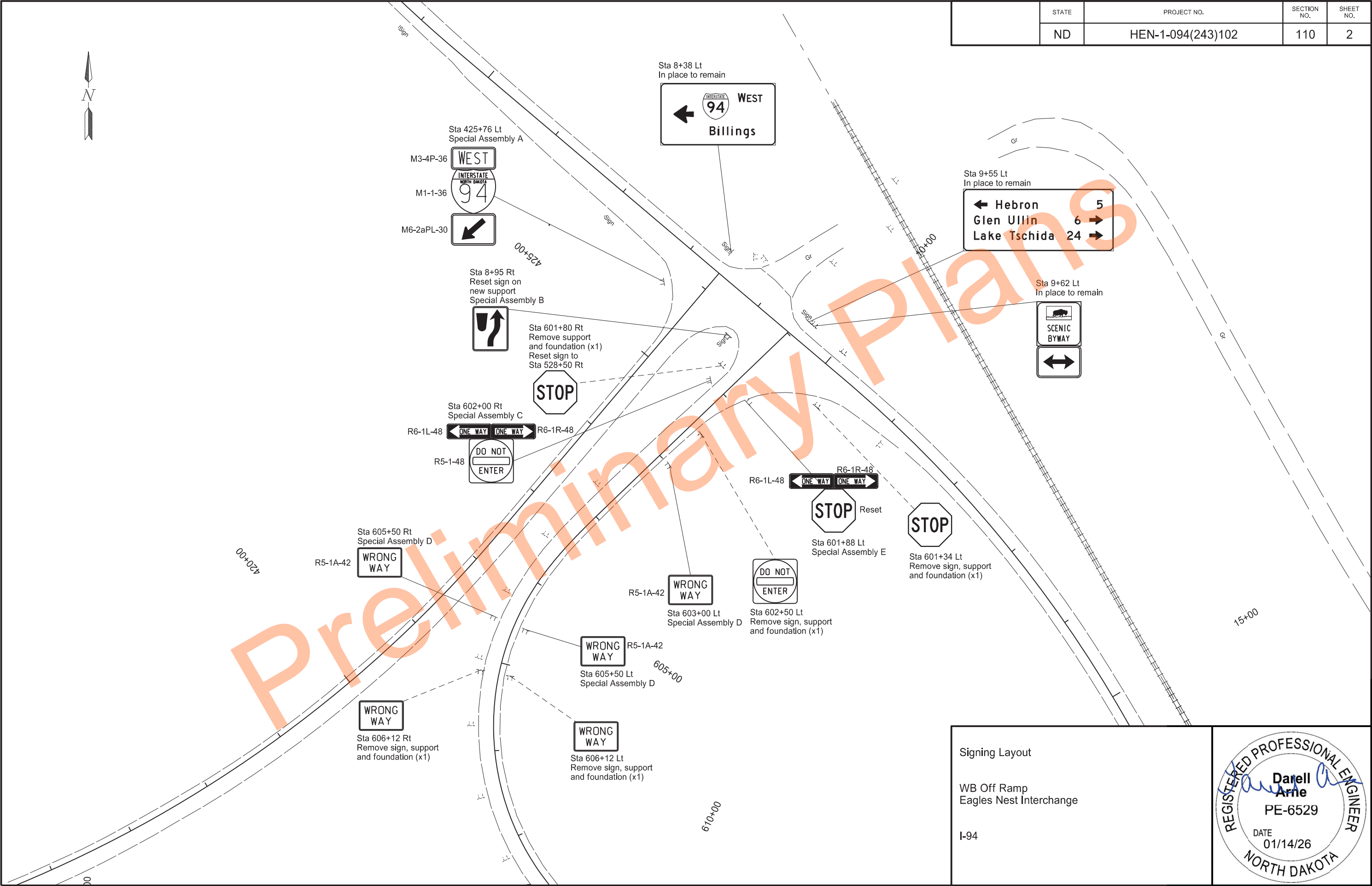
NOTE:
If additional signs are required, units will be calculated using the formula from Section III-18.06 of the Design Manual.
<http://www.dot.nd.gov/>



Traffic Control Devices List
Eagles Nest Interchange
Exit 102 - County Hwy 139







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Signing Layout

WB Off Ramp
Eagles Nest Interchange

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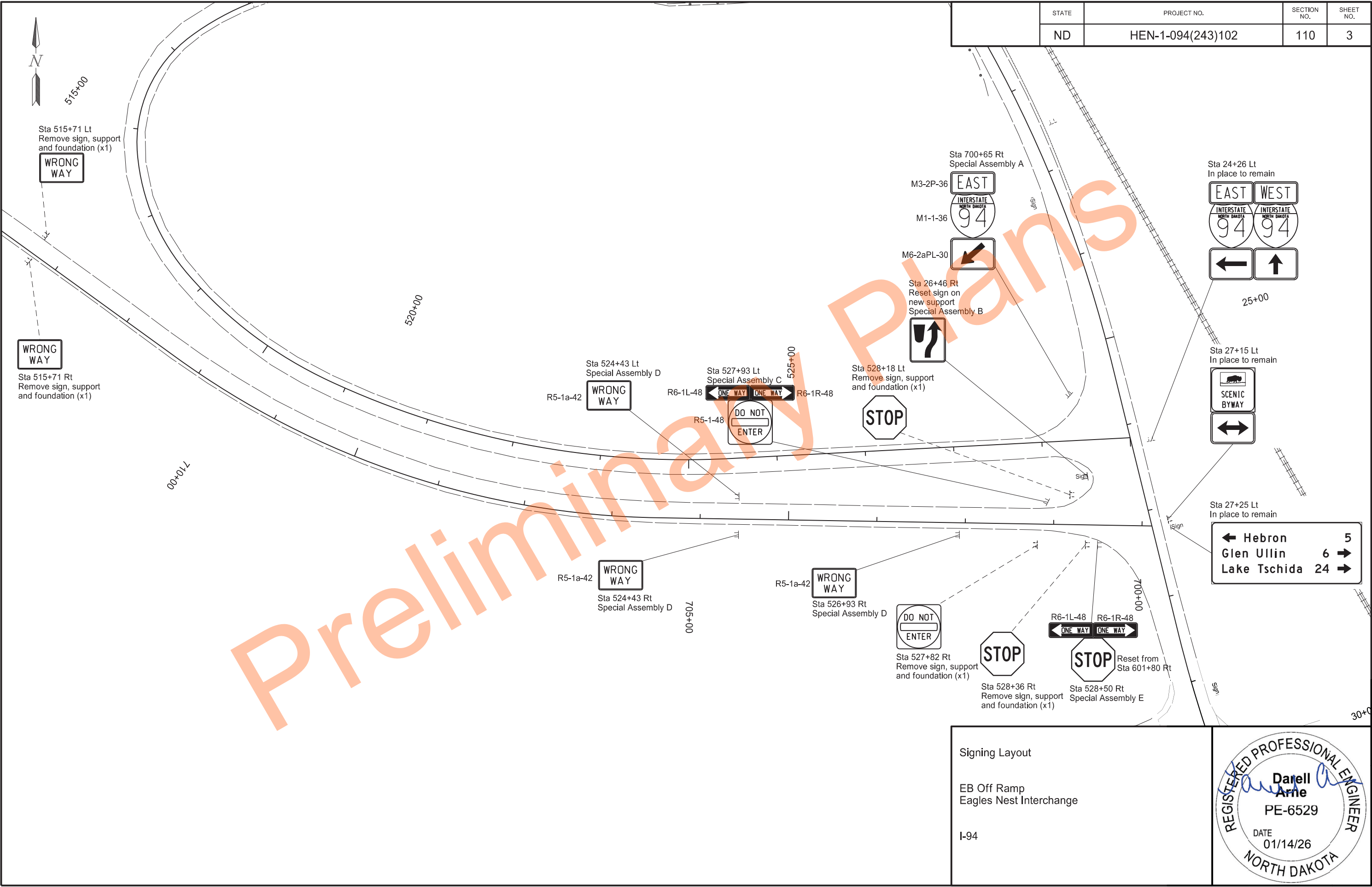
REGISTERED PROFESSIONAL ENGINEER

Darell Arne

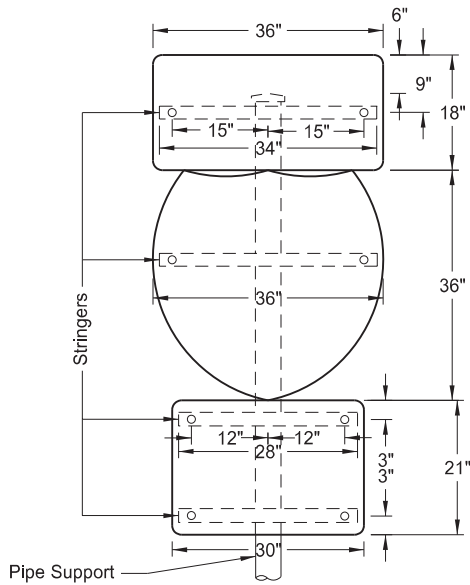
PE-6529

DATE 01/14/26

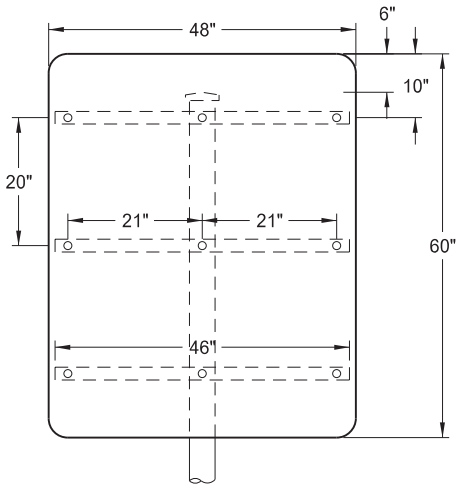
NORTH DAKOTA



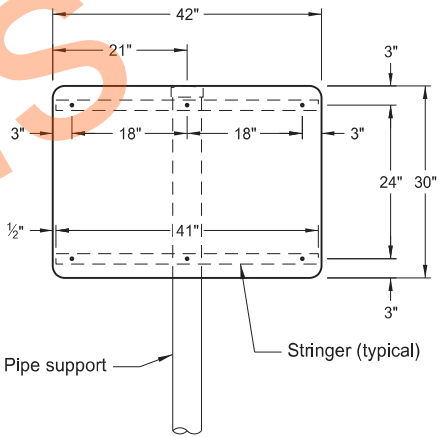
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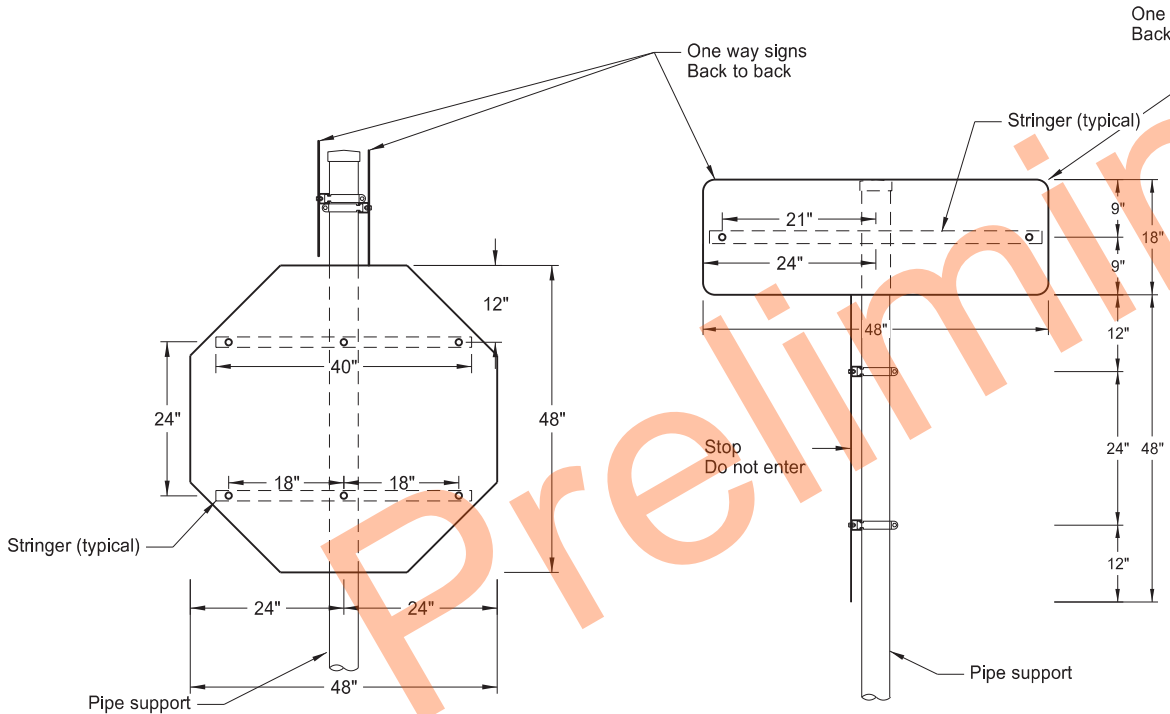
Special Assembly A
(Round Steel Pipe)
Sta 425+76 Lt
Sta 700+65 Rt
Pay Area: 17.9 Sq Ft



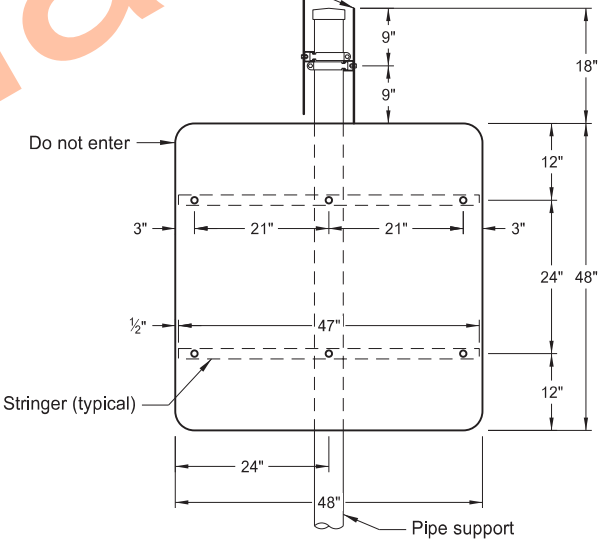
Special Assembly B
(Round Steel Pipe)
Sta 8+95 Rt
Sta 26+46 Rt
Pay Area: 20 Sq Ft



Special Assembly D
(Round Steel Pipe)
Sta 603+00 Lt
Sta 605+50 Rt
Sta 605+50 Lt
Sta 526+93 Rt
Sta 524+43 Lt
Sta 524+43 Rt
Pay Area: 8.8 Sq Ft



Special Assembly E
(Round Steel Pipe)
Sta 601+88 Lt
Sta 528+50 Rt
Pay Area: 25.3 Sq Ft



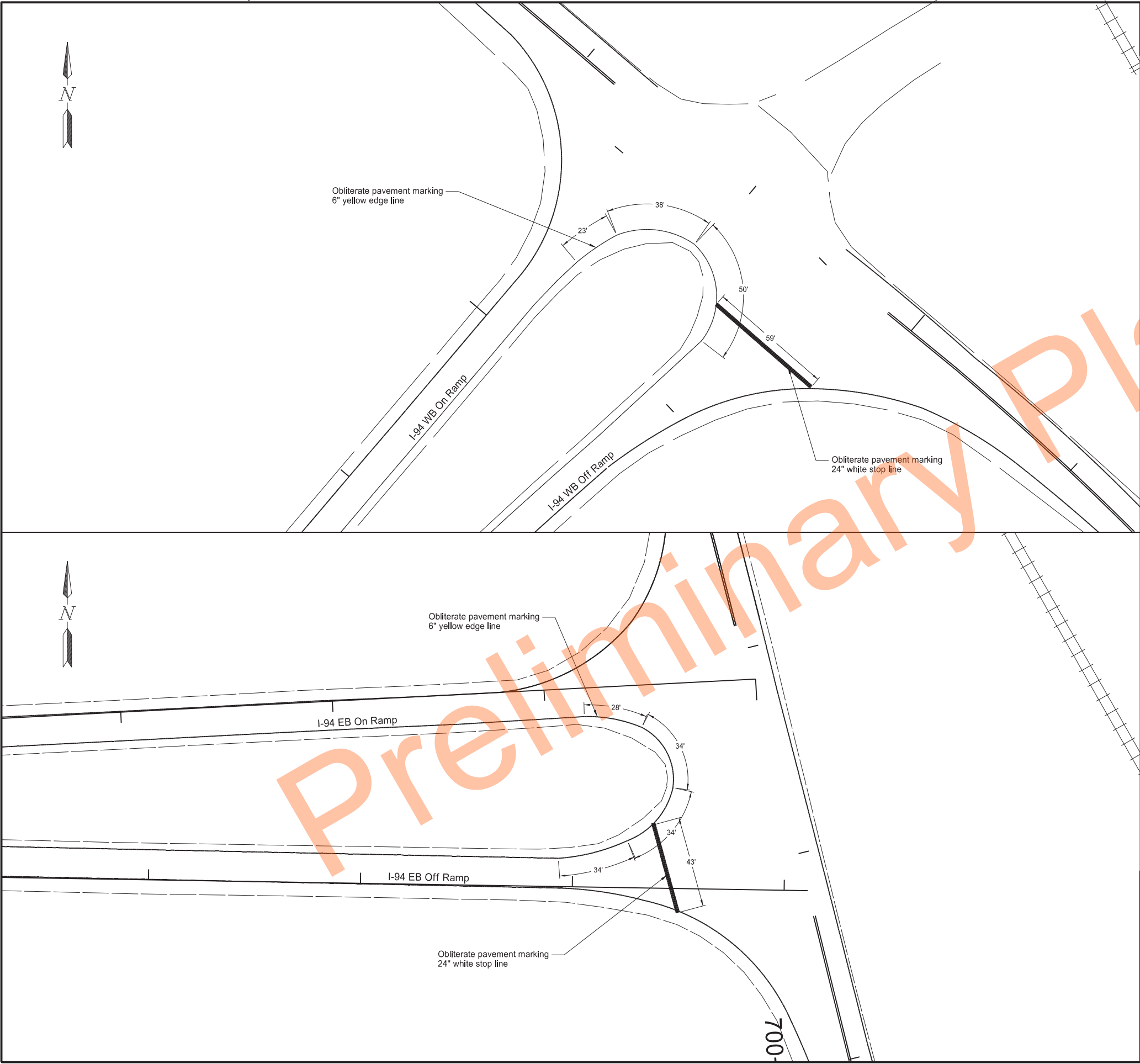
Special Assembly C
(Round Steel Pipe)
Sta 602+00 Rt
Sta 527+93 Lt
Pay Area: 28 Sq Ft

Special Assemblies

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SPEC	CODE	BID ITEM	QTY	UNIT
704	1500	OBLITERATION OF PAVEMENT MARKING		
		6" yellow edge line	121	SF
		24" white stop line	205	SF
		Total	326	SF

Obliteration of Pavement Markings

Eagles Nest Interchange

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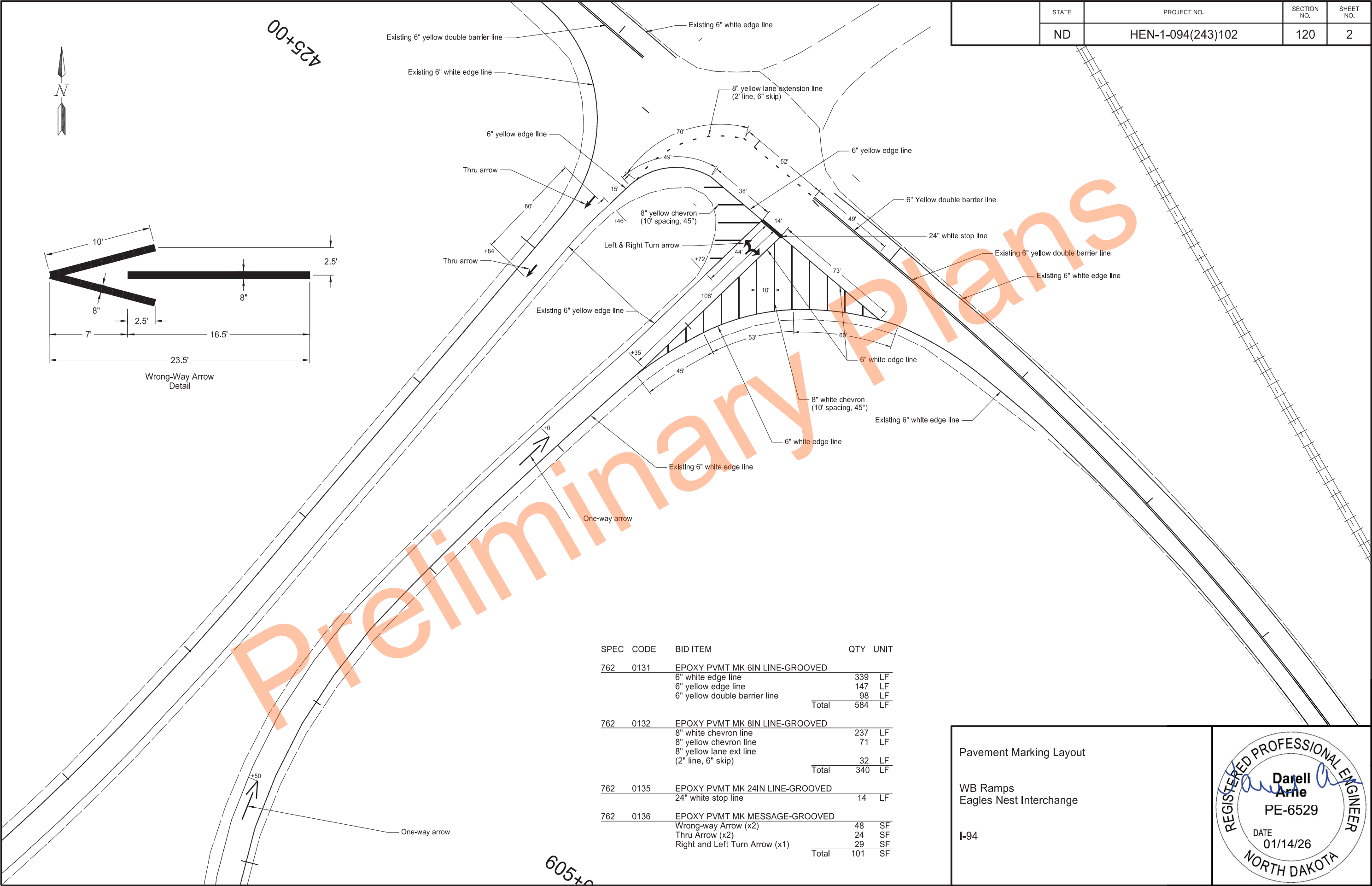
REGISTERED PROFESSIONAL ENGINEER

Darell Arne

PE-6529

DATE 01/14/26

NORTH DAKOTA



SPEC	CODE	BID ITEM	QTY	UNIT
762	0131	EPOXY PVMT MK 6IN LINE-GROOVED		
		6" white edge line	339	LF
		6" yellow edge line	147	LF
		6" yellow double barrier line	98	LF
		Total	584	LF
762	0132	EPOXY PVMT MK 8IN LINE-GROOVED		
		8" white chevron line	237	LF
		8" yellow chevron line	71	LF
		8" yellow lane ext line (2" line, 6" skip)	32	LF
		Total	340	LF
762	0135	EPOXY PVMT MK 24IN LINE-GROOVED		
		24" white stop line	14	LF
762	0136	EPOXY PVMT MK MESSAGE-GROOVED		
		Wrong-way Arrow (x2)	48	SF
		Thru Arrow (x2)	24	SF
		Right and Left Turn Arrow (x1)	29	SF
		Total	101	SF

Pavement Marking Layout

WB Ramps
Eagles Nest Interchange

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