

DESIGN DATA				
Traffic	Average Daily			
Current 2021	Pass: 3,730	Trucks: 320	Total: 4,050	
Forecast 2041	Pass: 4,555	Trucks: 460	Total: 5,015	
Minor Rehabilitation				

NORTH DAKOTA

DEPARTMENT OF TRANSPORTATION

NH-8-018(111)121

Trail County

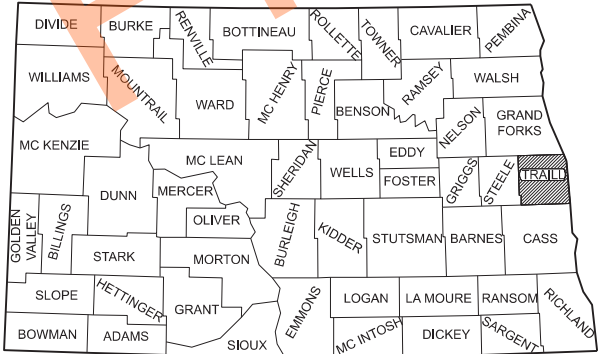
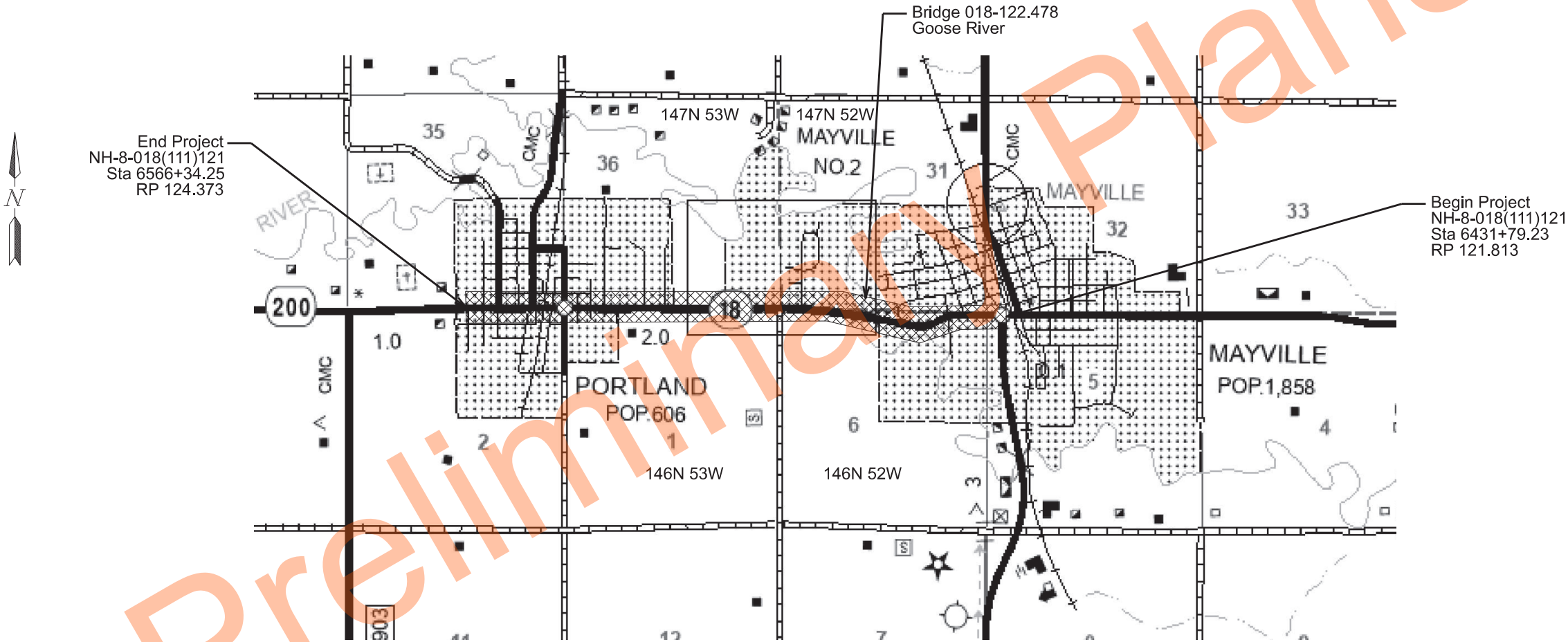
HWY 18, Jct 200 W Through Portland

Milling, HMA Overlay, Reconstruction, ADA Curb Ramps, Bike Path HMA Overlay

STATE	PROJECT NO.	PCN	SECTION NO.	SHEET NO.
ND	NH-8-018(111)121	23583	1	1

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
NH-8-018(111)121	2.610	2.610



STATE COUNTY MAP

DESIGNER Dustin R. Fanfulik P.E.
DESIGNER Mark Anderson
DESIGNER Ryan Berg

ND DEPARTMENT OF TRANSPORTATION OFFICE OF PROJECT DEVELOPMENT	Kirk Hoff 06/02/26
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WIDSETH

REGISTERED PROFESSIONAL ENGINEER

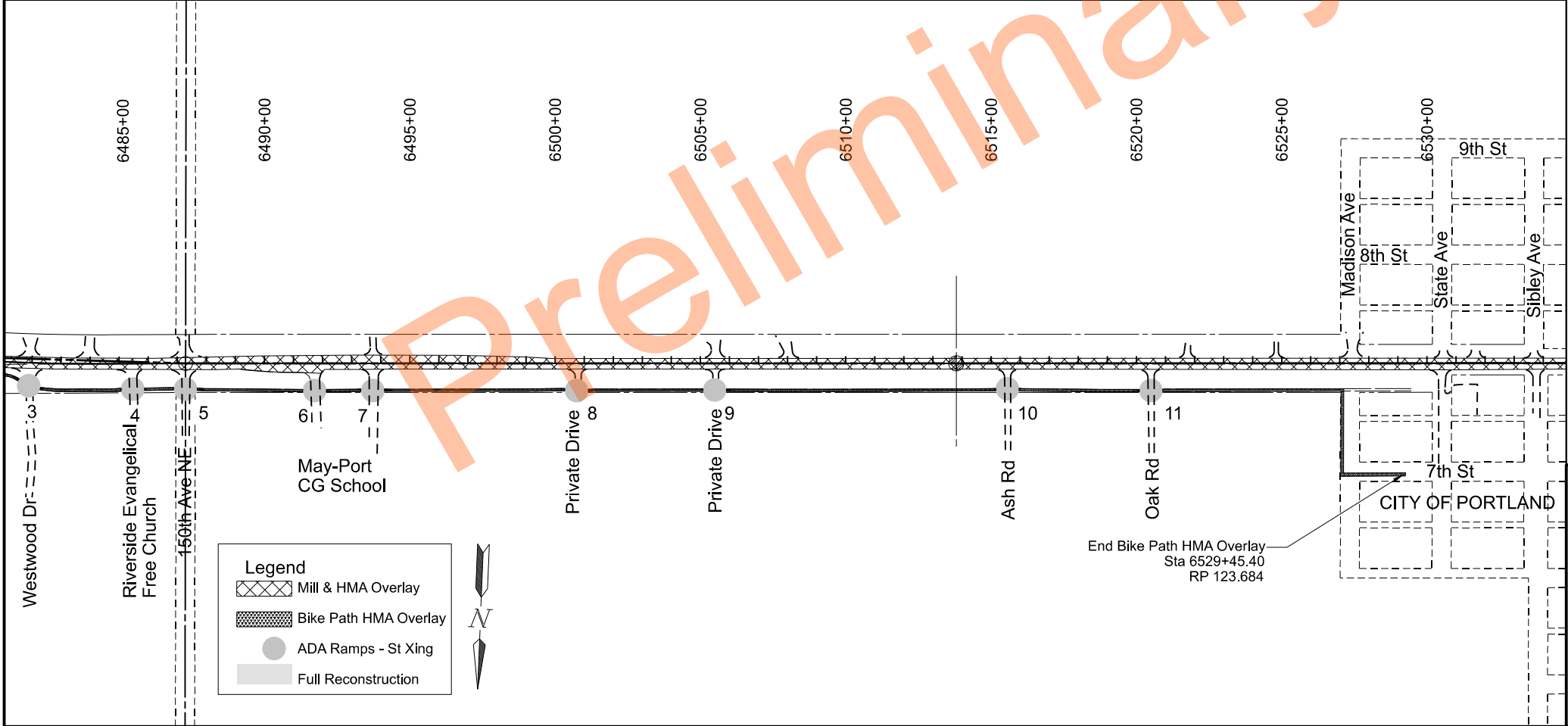
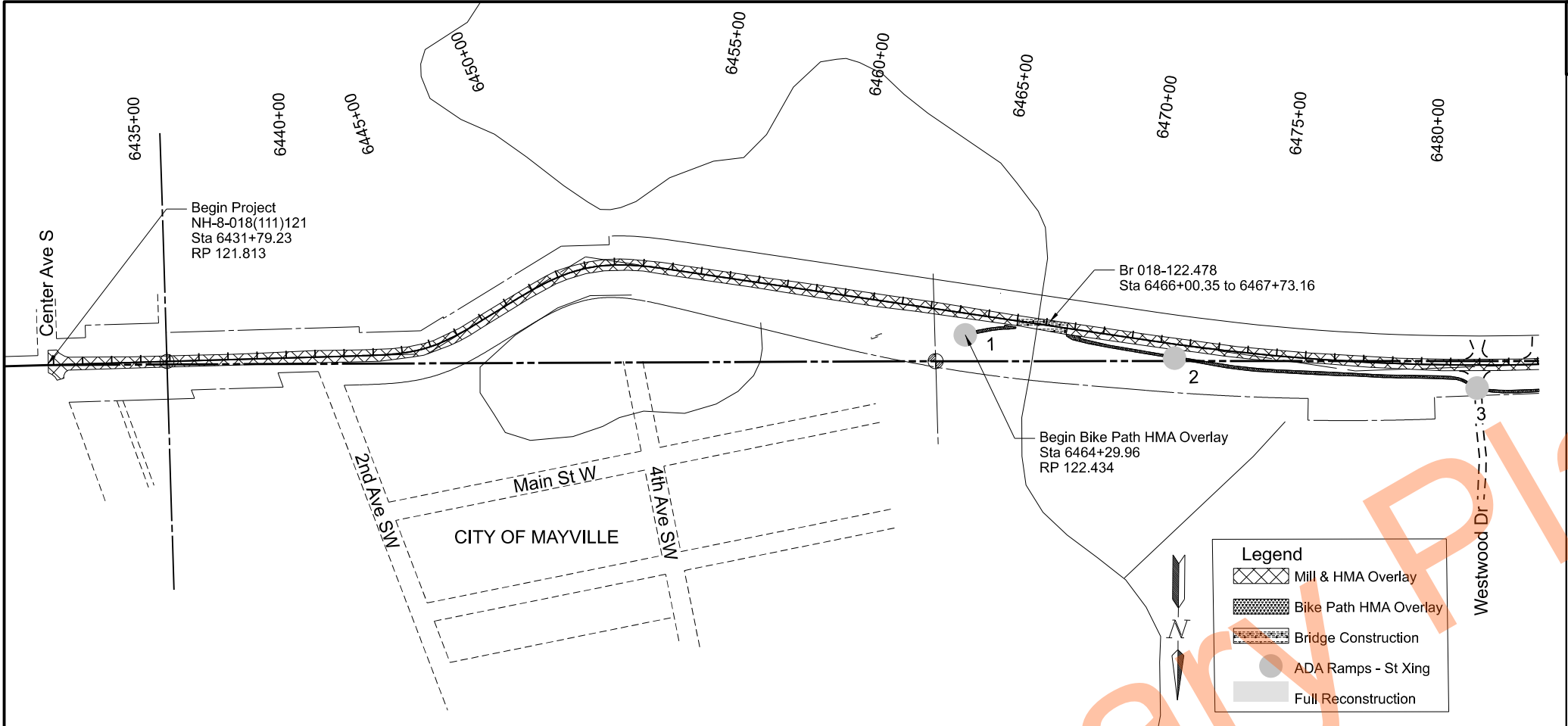
DUSTIN R. FANFULIK

PE-27243

DATE 06/02/26

NORTH DAKOTA

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SP 377(25)	Utility Coordination							
SP 378(25)	Railroad Requirements							
SP 389(25)	Concrete Spall Repair							
PSP 75(25)	Permits and Environmental Considerations							

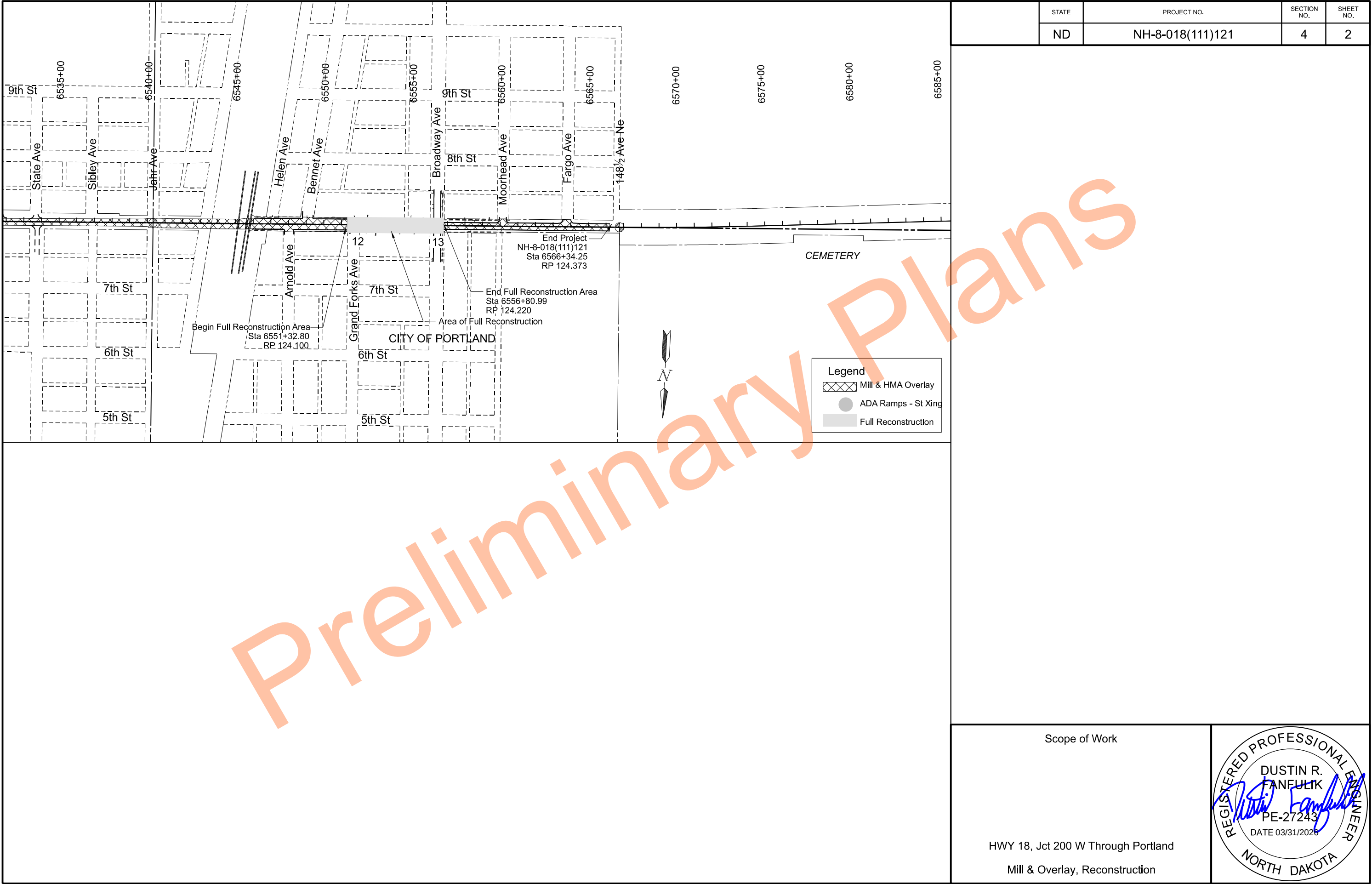


STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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Scope of Work

HWY 18, Jct ND 200 W Through Portland
Mill & Overlay, Reconstruction





NOTES

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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- 100-P01 NOISE/WORK RESTRICTIONS: All work must occur between the hours of 7 AM and 8 PM.
- 105-110 PAVEMENT SWEEPING: Sweep paved areas that were used by construction traffic before opening these areas to public traffic. Sweep all newly constructed pavement no more than 24 hours before a scheduled final inspection. Use a vacuum or pick-up type sweeper to perform this work.
- 107-P01 HAUL ROAD RESTORATION: Use Class 13 Aggregate for haul road restoration.
- 202-P01 REMOVAL OF AGGREGATE: Include all cost to remove existing aggregate base in the contract unit price for "REMOVAL OF CONCRETE PAVEMENT" and "REMOVAL OF BITUMINOUS SURFACING."
- 251-P01 SEEDING CLASS III: Use the following seed mix.
- | Species | Percent by Weight |
|-----------------------------|-------------------|
| Slender Creeping Red Fescue | 20% |
| Strong Creeping Red Fescue | 20% |
| Kentucky Bluegrass | 20% |
| Hard Fescue | 20% |
| Sheeps Fescue | 20% |
- Rate of seeding = 4 to 6 lbs./1,000 sq. ft.
- Combine seed mixture with hydraulic mulch. Apply water in a manner that provides uniform coverage and prevents erosion and damage to the final surface. Provide daily watering for the first five days and sufficient water to maintain surface moisture in the top 2 inches of the soil until such time as the grass (not cover crop) has been evenly established to a height of 2 inches. Include all costs for labor, equipment, and materials necessary to complete the work in the contract unit price for "SEEDING CLASS III".
- 253-P01 LANDSCAPE PREPARATION: Provide minimal grading and hydraulic mulch adjacent to the locations for the bikepath overlay area. Blend the existing topsoil adjacent to the path to eliminate any steep slopes or vertical edges. Remove excess topsoil from the project site. Import topsoil if needed. Provide hydraulic mulch and seed mixture (Class III) Use hydraulic mulch material as specified in Sections 253.01 to 253.04 of the NDDOT Standard Specifications. Apply the hydraulic mulch after the seed is incorporated into the topsoil. Apply fertilizer at a rate of 6.25 pounds per 1,000 SF with the mixture of 5-10-5. Include the cost associated with the stripping & replacement of topsoil, landscape restoration, & mulching in the contract unit price for "HYDRAULIC MULCH."
- 411-P01 TEMPORARY ASPHALT WEDGES: Construct and maintain temporary asphalt wedges at milled locations. Place wedges at these milled areas prior to traffic being allowed on the milled roadway section. Include all costs associated with installing,

removing, and maintaining wedges in the price bid for "MILLING PAVEMENT SURFACE".

- 430-100 HMA LONGITUDINAL JOINTS: Construct the joints within the final lift of pavement as detailed within this note.

Place a longitudinal joint at the centerline of the roadway.

Construct each lane and the adjoining shoulder using a single pass or a hot seam. A hot seam is defined as follows:

- Constructed using two pavers simultaneously;
- No more than 300 feet between pavers; and
- Roll the seam between paver passes in a manner such that the seam is not visible.

- 704-450 LANE CLOSURE - SIGNAL CONTROL/FLAGGING CONTROL: Install either the signal controlled lane closure on Standard D-704-16 or the flagging controlled lane closure on Standard D-704-17.

Obtain an electrical source for traffic signals. Solar powered signals may be used. Place generators a minimum of 60 feet from the roadway centerline, unless the generator and signal are part of a trailer mounted unit.

Place utility poles and equipment a minimum of 60 feet from the roadway centerline and place power conductors a minimum of 6 inches below the ground surface. Remove poles after they are no longer necessary.

The Engineer will measure individual traffic control devices, other than the signal system and flaggers, shown on the standards. Payment will be made at the respective contract unit price.

Include the cost of either a traffic signal system or flaggers in the contract unit price for "Lane Closure – Signal Control/Flagging Control".



NOTES

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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704-P01 CONSTRUCTION PHASING PLAN & DEVICES: Provide a phasing plan a minimum of two weeks prior to start of construction to the Engineer for approval prior to beginning work. Phase the project to maintain pedestrian access for the duration of the project as shown in section 100. Maintain access to all businesses within the work zone.

Provide traffic control devices for a single full lane closure on D-704-19 Type F for mill & overlay operations, up to 4 separate ADA sites, layouts shown in section 100.

Provide temporary signal controls for the reconstruction area and bridge area.

Mill & Overlay:

Closure of one driving lane will be permitted during daylight hours while construction within an intersection is active. Remove lane closures at the end of each working day. If ordinary operation is not restored, provide 24-hour flagger operations until normal traffic operation can be restored. No additional payments will be made for flagging if ordinary traffic operation is not restored at the end of each working day.

Include all costs associated with supplying and maintaining devices in the price bid for "TRAFFIC CONTROL SIGNS." The Department will pay for all necessary deployed devices, regardless of the length of the lane closure.

706-P01 BITUMINOUS LABORATORY: In the bituminous Laboratory, provide a LAN/Wireless laser printer capable of scanning and producing photocopies. Supply ink or toner for the duration of the project. Use a Window 10 compatible printer/drivers. Provide a cellular internet service with Wi-Fi capabilities. Also provide a cell phone signal booster that boosts 3G and 4G frequencies and allows for the reliable use of cellular voice and data services throughout the lab. Include all costs for installation and monthly fees for the cellular internet service and cell phone signal booster in the contract price for "BITUMINOUS LABORATORY"

722-P01 ADJUST GATE VALVE BOX: Adjust existing gate valve boxes and curb boxes straight, plumb, centered and to final grade by turning or adjusting existing structures. Where existing gate valve boxes or curb boxes do not have sufficient adjustment or alignment, remove top section and construct additional sections as necessary to achieve desired adjustments. Verify effective valve access prior to and following construction. Double-wrap exposed riser sections with 6-mil polyethylene. Include all costs in the price bid for "ADJUST GATE VALVE BOX".

750-P01 SIDEWALK CONCRETE: Use Aggregate Base Course CL 5 to construct the base as needed under the new sidewalk concrete. Include the cost of furnishing, placing, and compacting the aggregate in the contract unit price for "SIDEWALK CONCRETE."

750-P02 EXISTING AGGREGATE BASE: Grade existing aggregate as needed for preparation of the new sidewalk and driveways. Include the cost associated with grading in the contract unit prices for "SIDEWALK CONCRETE" and "DRIVEWAY CONCRETE."

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



Estimated Quantities						STATE	PROJECT NO.	SECTION NO.	SHEET NO.
						ND	NH-8-018(111)121	8	1
SPEC	CODE	ITEM DESCRIPTION	UNIT	Mainline: Funding	TOTAL				
103	0100	CONTRACT BOND	L SUM	1	1				
107	0100	RAILWAY PROTECTION INSURANCE	L SUM	1	1				
107	0145	RAILROAD FLAGGING	DAY	1800	1800				
109	1000	E-TICKETING	L SUM	1	1				
202	0114	REMOVAL OF CONCRETE PAVEMENT	SY	317	317				
202	0130	REMOVAL OF CURB & GUTTER	LF	1073	1073				
202	0132	REMOVAL OF BITUMINOUS SURFACING	SY	2785	2785				
203	0113	COMMON EXCAVATION-WASTE	CY	2465	2465				
251	0310	SEEDING CLASS III	SY	3928	3928				
253	0200	HYDRAULIC MULCH	SY	3928	3928				
302	0120	AGGREGATE BASE COURSE CL 5	TON	2466	2466				
401	0050	TACK COAT	GAL	6587	6587				
401	0060	PRIME COAT	GAL	158	158				
411	0100	MILLING PAVEMENT SURFACE	TON	3542	3542				
430	0143	RAP - SUPERPAVE FAA 43	TON	8332	8332				
430	1000	CORED SAMPLE	EA	45	45				
430	5818	PG 58H-34 ASPHALT CEMENT	TON	398	398				
602	1250	PENETRATING WATER REPELLENT TREATMENT	SY	943	943				
650	0704	OVERLAY CONCRETE	CY	56	56				
650	0707	DECK CONCRETE	CY	11	11				
650	0720	CLASS 1 REMOVAL	SY	782	782				
650	0721	CLASS 2 REMOVAL	SY	235	235				
650	0722	CLASS 2-A REMOVAL	LF	370	370				
650	0723	CLASS 3 REMOVAL	SY	39	39				
650	0724	CLASS 4 REMOVAL	SY	9	9				
702	0100	MOBILIZATION	L SUM	1	1				
704	0100	FLAGGING	MHR	480	480				
704	1000	TRAFFIC CONTROL SIGNS	UNIT	1677	1677				
704	1018	LANE CLOSURE-SIGNAL CONTROL/FLAGGING CONTROL	EA	4	4				
704	1035	ATTENUATION DEVICE-TYPE B-25	EA	4	4				
704	1052	TYPE III BARRICADE	EA	16	16				
704	1054	SIDEWALK BARRICADE	EA	16	16				
704	1060	DELINEATOR DRUMS	EA	20	20				
704	1185	PILOT CAR	HR	240	240				
704	2108	TEMPORARY CURB RAMP	EA	7	7				
704	3501	PORTABLE PRECAST CONCRETE MED BARRIER	LF	690	690				
706	0550	BITUMINOUS LABORATORY	EA	1	1				
706	0600	CONTRACTOR'S LABORATORY	EA	1	1				
708	1540	INLET PROTECTION-SPECIAL	EA	3	3				
708	1541	REMOVE INLET PROTECTION-SPECIAL	EA	3	3				
722	6140	ADJUST GATE VALVE BOX	EA	2	2				
722	6160	ADJUST INLET	EA	1	1				
722	6200	ADJUST MANHOLE	EA	2	2				
748	0140	CURB & GUTTER-TYPE I	LF	1073	1073				
748	1200	VALLEY GUTTER-TYPE I 72IN	SY	39	39				
750	0100	SIDEWALK CONCRETE	SY	355	355				
750	1000	DRIVEWAY CONCRETE	SY	76	76				

Estimated Quantities						STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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SPEC	CODE	ITEM DESCRIPTION	UNIT	Mainline: Funding	TOTAL				
750	2115	DETECTABLE WARNING PANELS	SF	420	420				
754	0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	56	56				
754	0592	RESET SIGN PANEL	EA	14	14				
762	0111	EPOXY PVMT MK 12IN LINE	LF	322	322				
762	0112	EPOXY PVMT MK MESSAGE	SF	104	104				
762	0114	EPOXY PVMT MK 6IN LINE	LF	36115	36115				
762	0117	EPOXY PVMT MK 24IN LINE	LF	457	457				
762	0426	SHORT TERM 24IN LINE-TYPE R	LF	56	56				
762	0432	SHORT TERM 6IN LINE-TYPE NR	LF	15602	15602				
920	1216	GEOGRID	SY	2880	2880				
930	9223	CRACK SEALING	LF	200	200				
930	9534	MODIFY DECK DRAIN	EA	12	12				
930	9605	SPALL REPAIR - MINOR	SF	125	125				
930	9612	SPALL REPAIR	SF	15	15				

SPEC	CODE	BID ITEM
202	0114	REMOVAL OF CONCRETE PAVEMENT
		2 TON / CY Concrete
		1.5 TON / CY Aggregate
202	0130	REMOVAL OF CURB & GUTTER
		2 TON / CY or 200 Lbs / LF
302	0120	AGGREGATE BASE COURSE CL5
		1.5 TON / CY +25%
401	0050	TACK COAT
		0.1 GAL / SY
411	0100	MILLING PAVEMENT SURFACE
		2.0 TON / CY
430	0142	RAP-SUPERPAVE FAA 43
		2.0 TON / CY
430	5818	PG58H-34 ASPHALT CEMENT
		4.80% Weight
750	0100	SIDEWALK CONCRETE
		9 SF / 1 SY

Estimated Recycle Material

Milled Material available for production of RAP	3,542	TON
Losses (10%)	354	TON
Total	3,188	TON

Milled Material required for production of RAP - SUPERPAVE FAA 43		
3,542 tons RAP-Superpave FAA 43 X 25% =	886	TON
3,542 tons RAP-Superpave FAA 43 X 10% =	354	TON

Milled Material to become property of the Contractor		
If max % blend is used =	2,302	TON
If min % blend is used =	2,834	TON

Mill and Overlay									
Stations		Stations		Stations		Stations		Stations	
6431+79.23 to 6540+62.60		6540+62.60 to 6545+84.00		6545+84.00 to 6551+32.80		6556+80.99 to 6566+20.99			
Tangent		Tangent		Tangent		Tangent		Tangent	
Material	Unit	Width (ft)	Quantity per Station	Width (ft)	Quantity per Station	Width (ft)	Quantity per Station	Width (ft)	Quantity per Station
Milling Pavement Surface @ 2 TON/CY (Bituminous)	TON	35.2	21.73	53	65.43	60	74.07	37	45.68
Tack Coat @ 0.1 GAL/SY (Milled Surfaces)	GAL	35.2	39.11	53	58.89	60	66.67	37	41.11
RAP-Superpave FAA 43 @ 2 TON/CY	TON	35.2	43.46	53	98.15	60	111.11	37	68.52
PG 58H-34 Asphalt Cement @4.80%	TON	35.2	2.09	53	4.71	60	5.33	37	3.29

Reconstruct Stations			
6551+32.8 - 6556+80.99			
Tangent			
Material	Unit	Width (ft)	Quantity per Station
Prime Coat @0.35 GAL/SY	GAL	37	158
Tack Coat @ 0.1 GAL/SY / Application	GAL	37	90
RAP-Superpave FAA 43 @ 2 TON/CY	TON	37	165
PG 58H-34 Asphalt Cement @4.80%	TON	37	8
Aggregate Base Course CL 5	TON	37	450
Geogrid	SY	37	525

Bikepath			
Material	Unit	Width (ft)	Quantity per 100 FT
Tack Coat @ 0.1 GAL/SY (Milled Surfaces)	GAL	8	8.89
RAP-Superpave FAA 43 @ 2 TON/CY	TON	8	9.87
PG 58H-34 Asphalt Cement @4.80%	TON	8	0.47
Seeding Class III	SY	4	44.44
Hydraulic Mulch	SY	4	44.44

Short Term 4 IN Line - Type NR		
Location	Basis	Quantity (LF)
Centerline Skip & Double Top of Asphalt	As shown on section 120	15,602

HMA Cored Samples							
Specification Section	A	B		C	Quantity (ft) (A*B*C)	Quantity (1 per mile)	Unit
	Distance (ft) / 1000	Lanes	Joints	Lifts			
430.04 I.2.b(2), "Pavement Density Cores"	13.9	2		1	28		EA
SSP 4 Longitudinal Joint Density in HMA Pavements (Centerline)	13.9		1	1	14		EA
430.04 I.2.b(3),"Pavement Thickness Determination Cores"	0.5	2				3	EA
Total					42	3	EA

Earthwork Summary	
Location	203-0113 Common Excavation - Waste (CY)
6551+32.8 - 6556+80.99	2,465

Basis of Estimate

HWY 18, Jct 200 W Through Portland Mill & Overlay, Reconstruction, ADA Ramps

REGISTERED PROFESSIONAL ENGINEER

DUSTIN R. FANFULTK

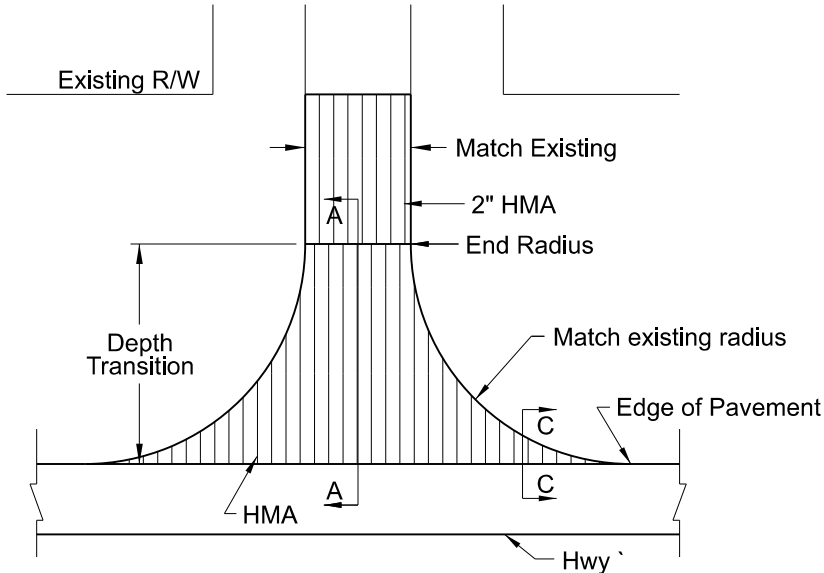
PE-27243

DATE 03/31/2026

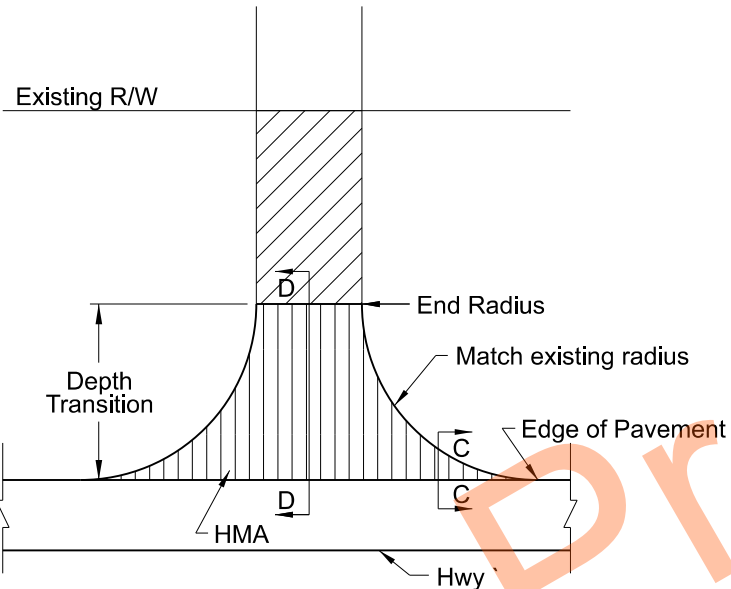
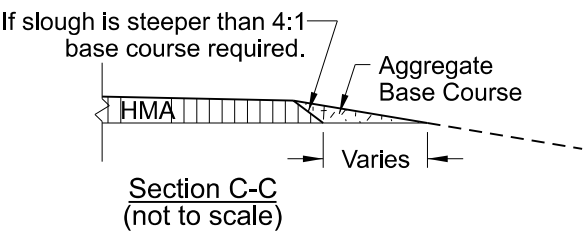
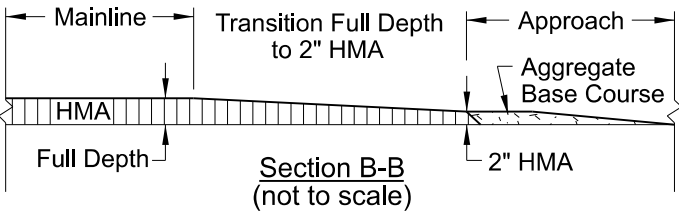
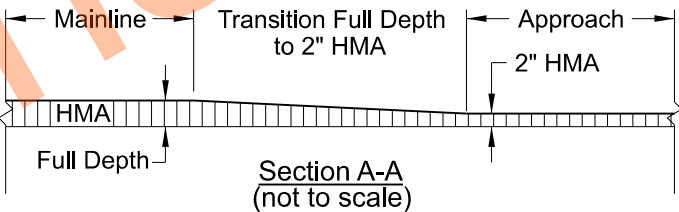
NORTH DAKOTA

Notes:

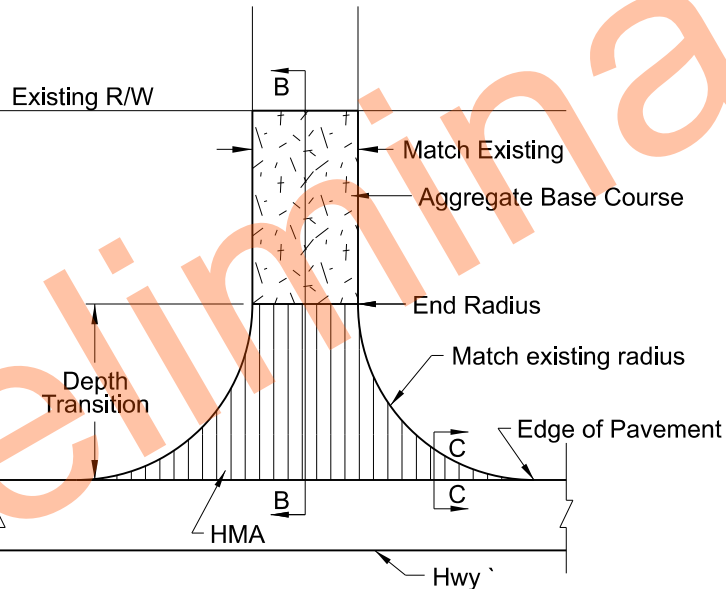
1. Actual HMA paving and aggregate base course locations may vary in the field, as approved by the Engineer.
2. Quantity totals have been included in the bid items of the "Estimate of Quantities" of the plans.
3. Aggregate base course has been provided in the quantities to fill in around the radii. This material will be required when sloughs are steeper than 4:1 (see section C-C)



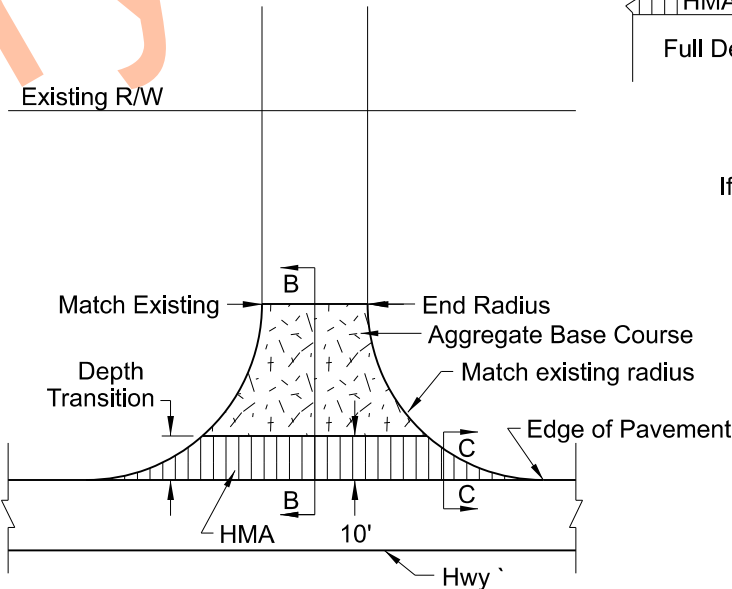
(1) Paved Section Line, County Road, or Street Approach



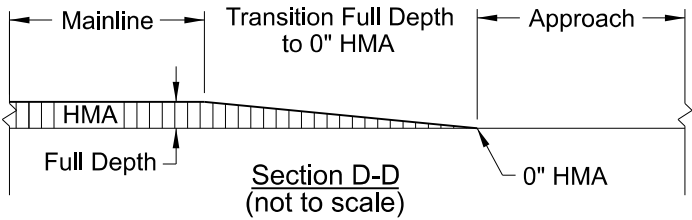
(2) Paved Private Drive Approach



(3) Gravel Private Drive Approach



(4) Field Drive Approach



BASIS OF ESTIMATE		(1)	(2)	(3)	(4)	TOTALS
ITEM	UNIT	Paved Section Line	Paved Private Drive	Gravel Private Drive	Field Drive	
Number of Locations	#	7	23	11	3	44
Aggregate Base Course CL 5	TON	N/A	N/A	17	3	20
Tack Coat	GAL	56	133	0	3	192
Superpave FAA 42	TON	62	148	71	4	285
PG 58H-34 Asphalt Cement	TON	3	7	3	1	14



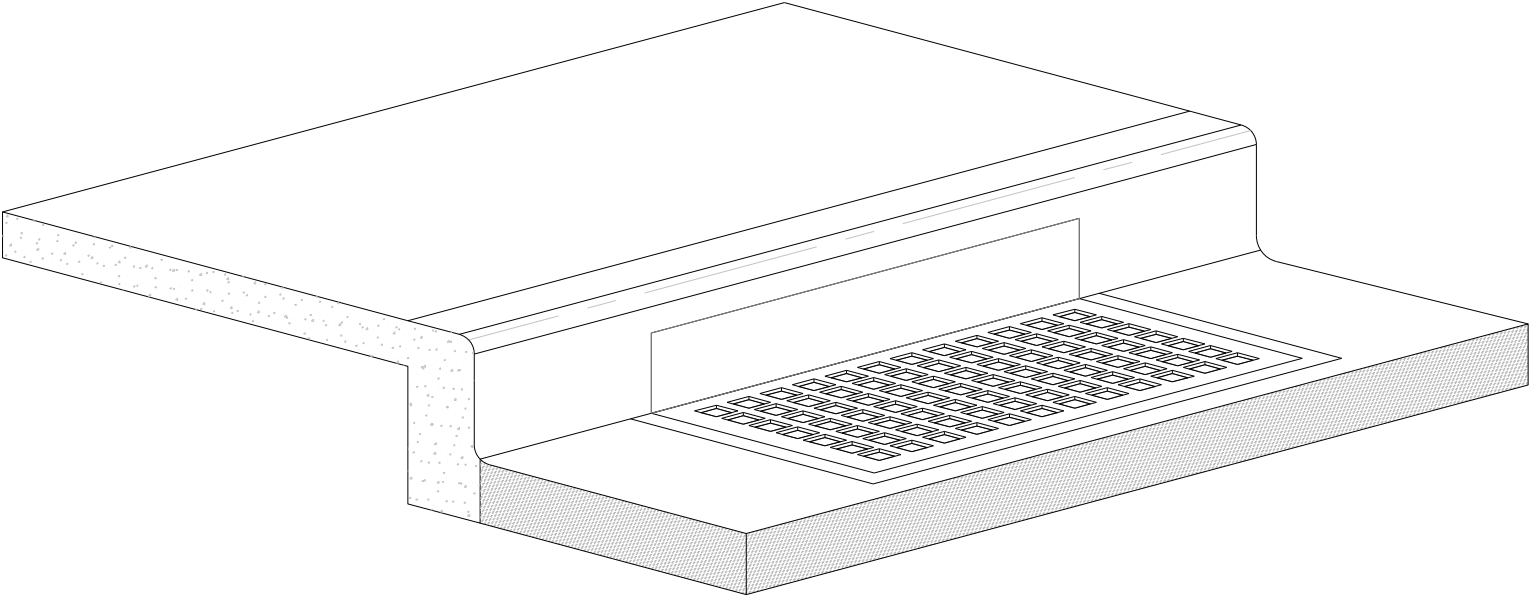
Approach Paving Details for Existing Rural Approaches

(No Approach Grading)

HWY 18, Jct 200 W Through Portland

Mill & Overlay, Reconstruction

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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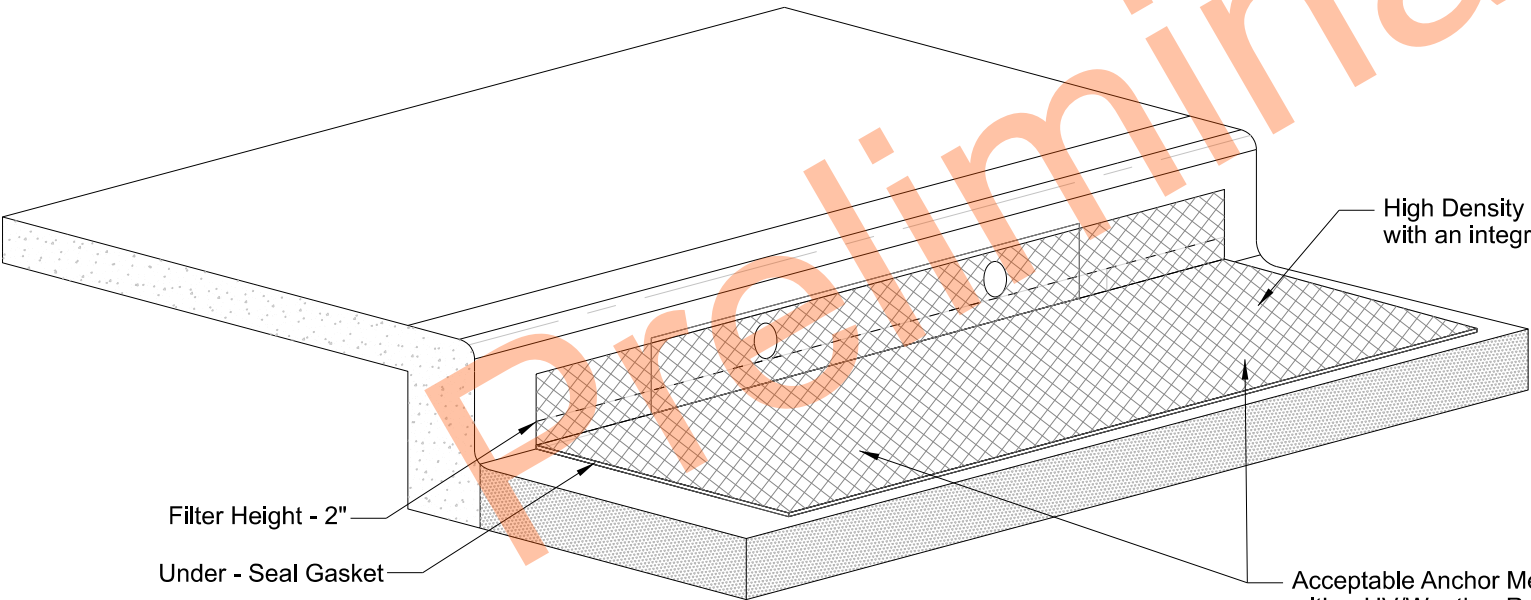
Inlet Protection Device

Installation Notes:

1. Place device tightly against drain opening and cover entire grate. Extend the device at least 2 inches past the grate toward the street.
2. Overlap the segments at longer openings.
3. Anchor the device so that water cannot flow behind it.

General Notes:

1. Remove material that falls into the inlet during maintenance or removal of the device.



High Density Polyethylene (HDPE) high flow jacket filter (8,000 opening per SY) with an integrated 425 um (micron meter) fine filter particle mesh

Filter Height - 2"

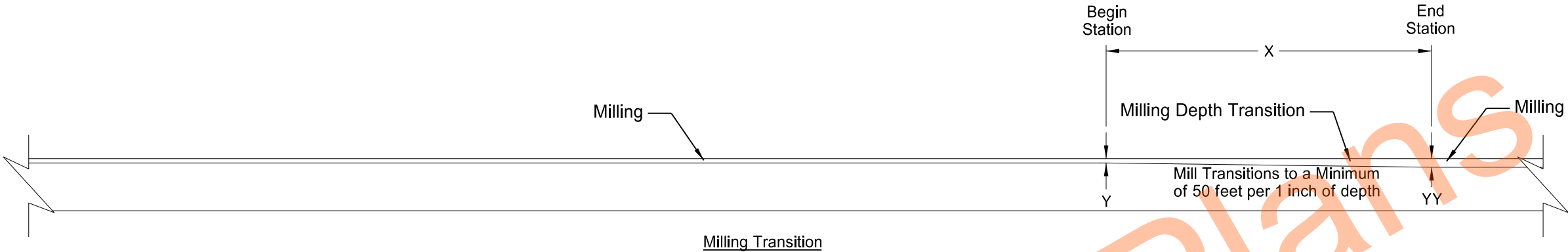
Under - Seal Gasket

Acceptable Anchor Method: Fasten to inlet casting grate with a UV/Weather Resistant Plastic Cable Zip Ties - 16 to 24 in. Install zip ties at each corner of the inlet near the perimeter and two additional zip ties near the middle of the casting. Punch hole through filter and run cable tie downward around grate and back up to fasten.



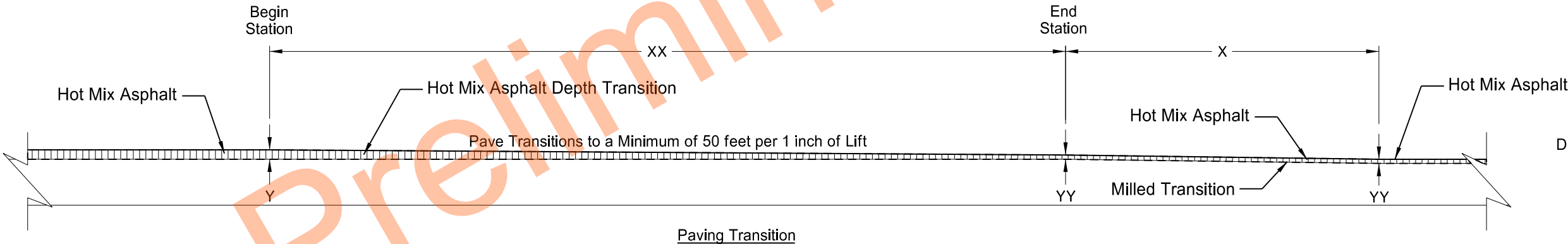
Inlet Protection Device

HWY 18, Jct 200 W Through Portland
Mill & Overlay, Reconstruction



Drawing is not to scale

Milling Transitions				
X	Begin Station	Y	End Station	YY
50 ft	6464+45.03	1 in.	6464+95.03	2 in.
50 ft	6468+70.03	2 in.	6469+20.03	1 in.
50 ft	6545+34.00	1 in.	6545+84.00	2 in.



Drawing is not to scale

Paving Transitions					
XX	Begin Station	Y	End Station	YY	X
50 ft	6464+45.03	2 in	6464+95.03	2 in	50 ft
50 ft	6468+70.03	2 in	6469+20.03	4.5 in	50 ft
50 ft	6545+34.00	2 in	6545+84.007	3 in	50 ft

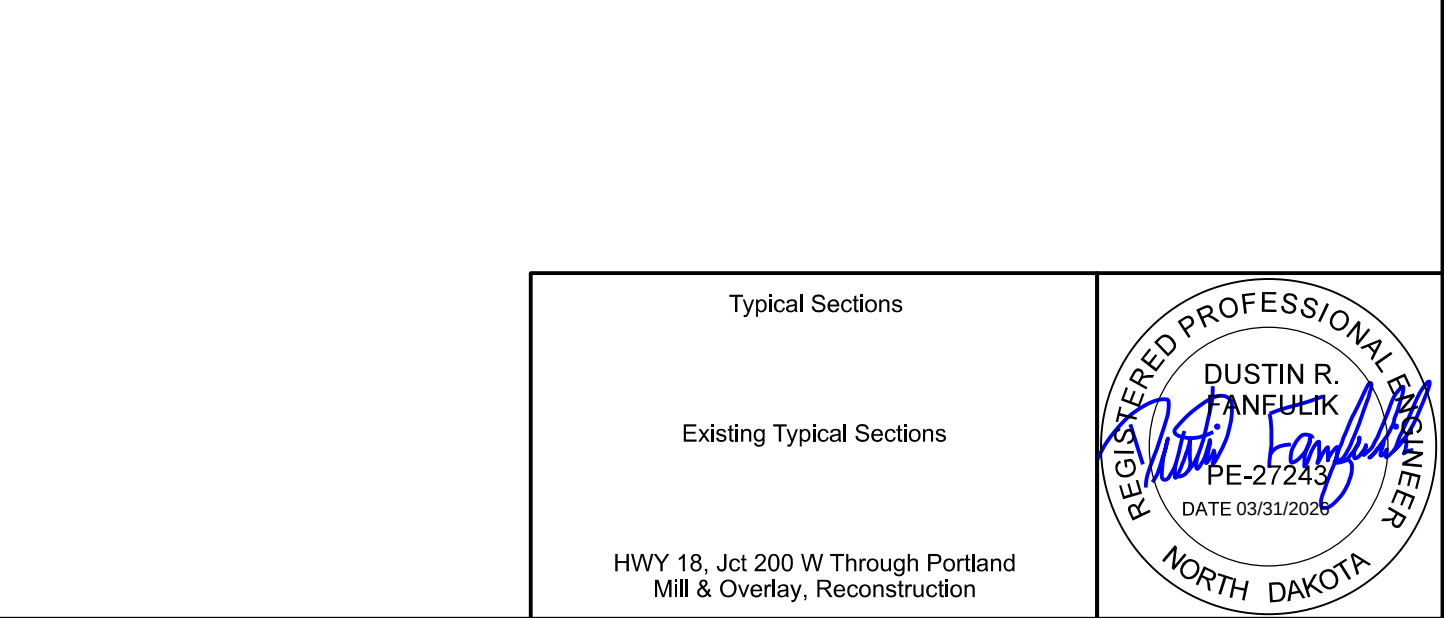
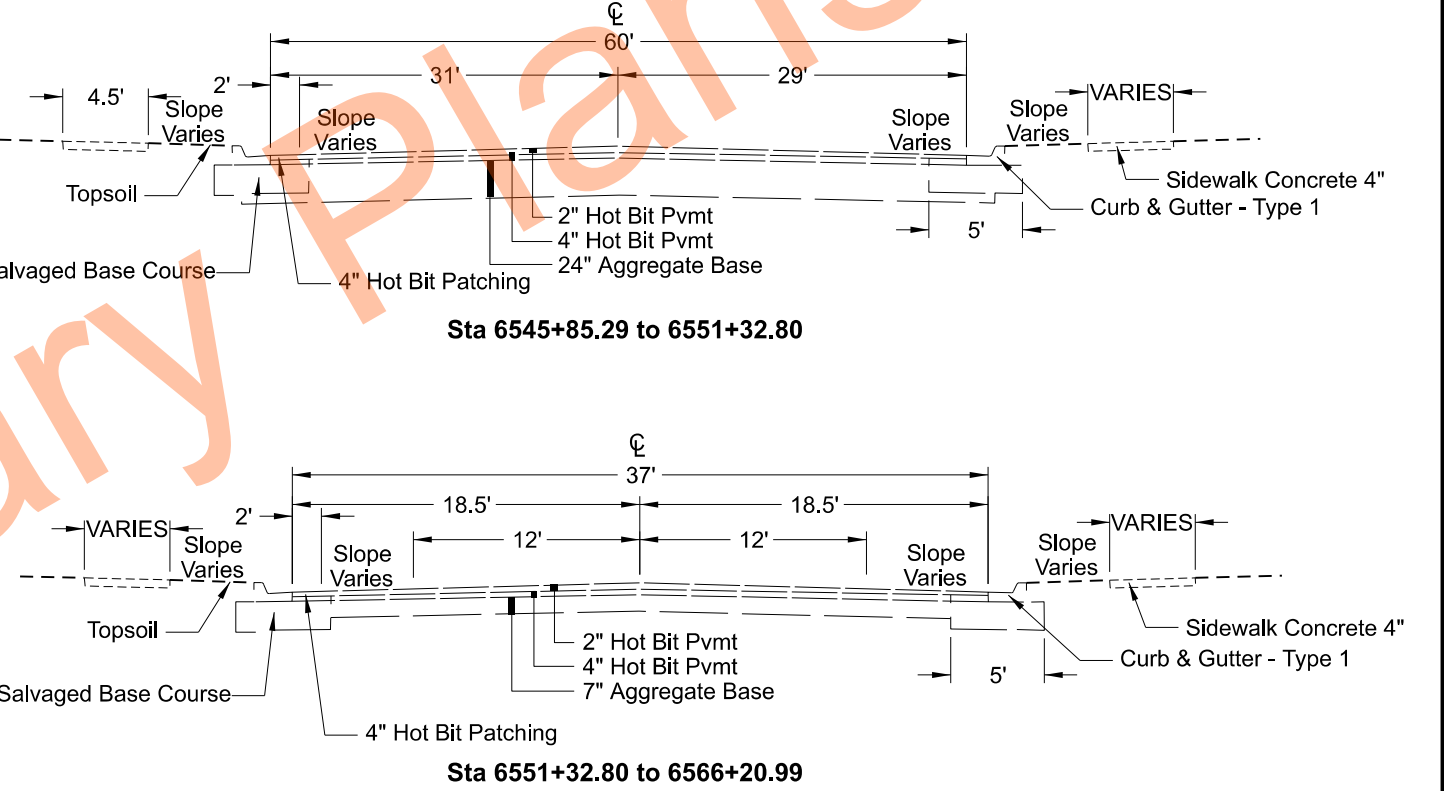
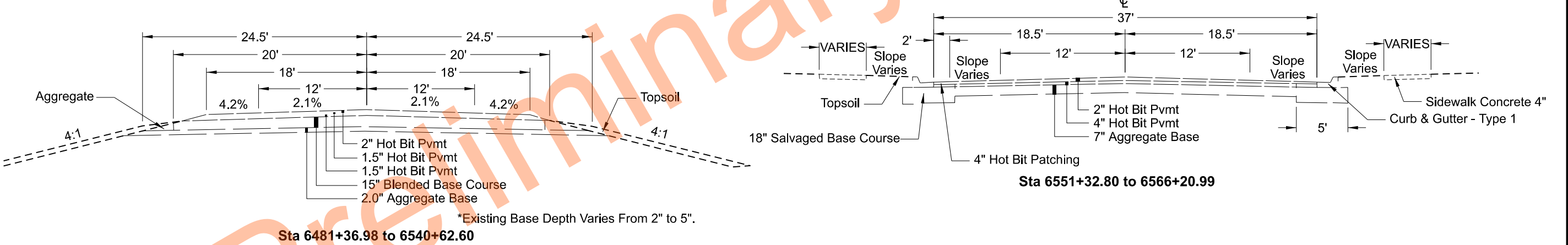
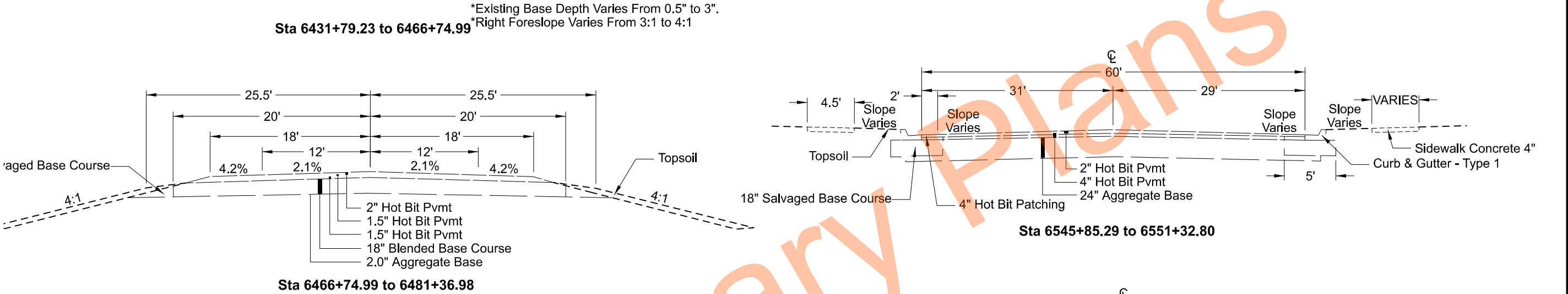
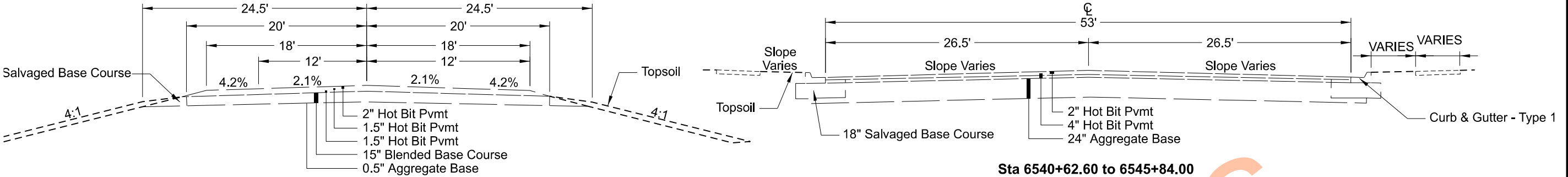


Milling and Paving Transitions

E Jct 200 W Through Portland

Mill & Overlay, Reconstruction

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NH-8-018(111)121	30	1



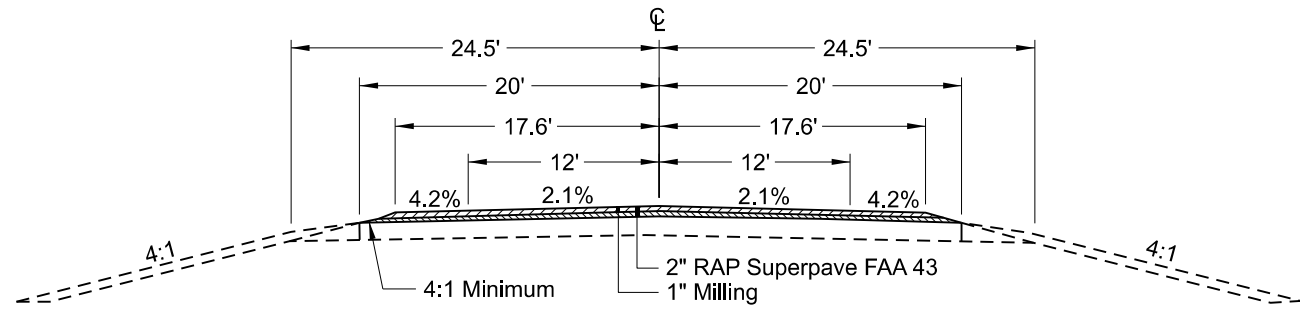
Typical Sections

Existing Typical Sections

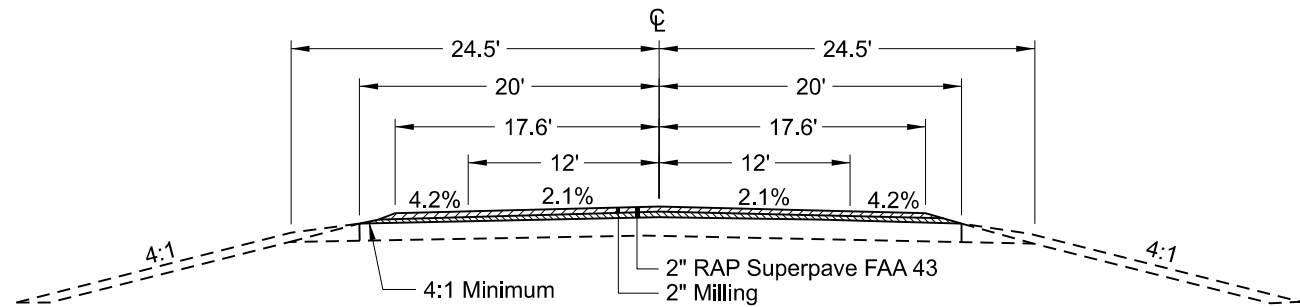
HWY 18, Jct 200 W Through Portland
Mill & Overlay, Reconstruction



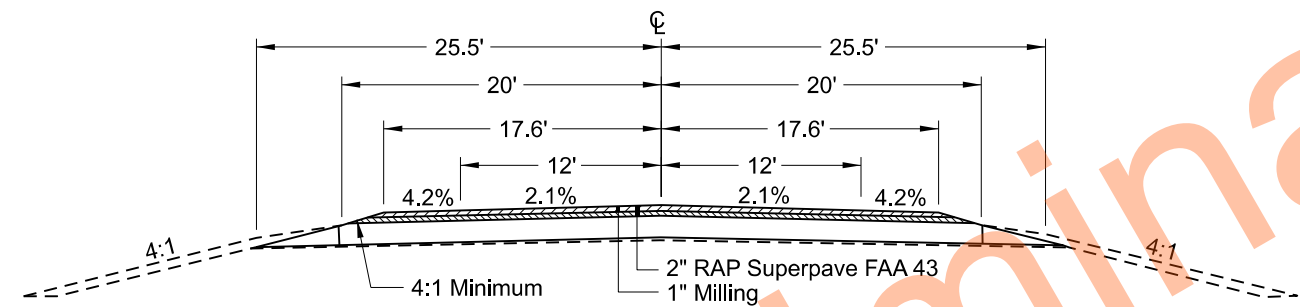
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NH-8-018(111)121	30	2



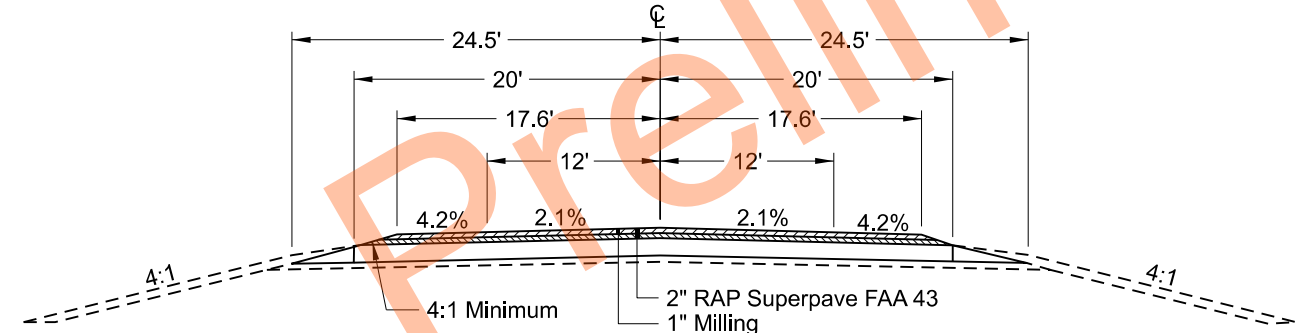
Sta 6431+79.23 to 6464+95.03



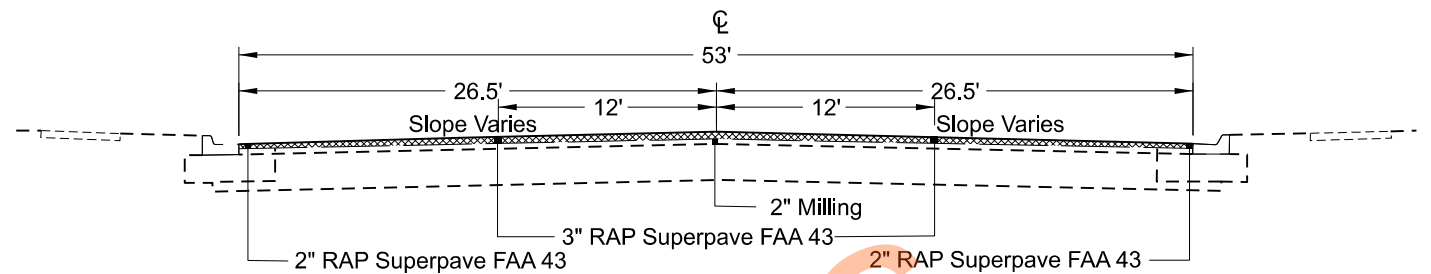
Sta 6464+95.03 to 6465+95.03
6467+70.03 to 6468+70.03



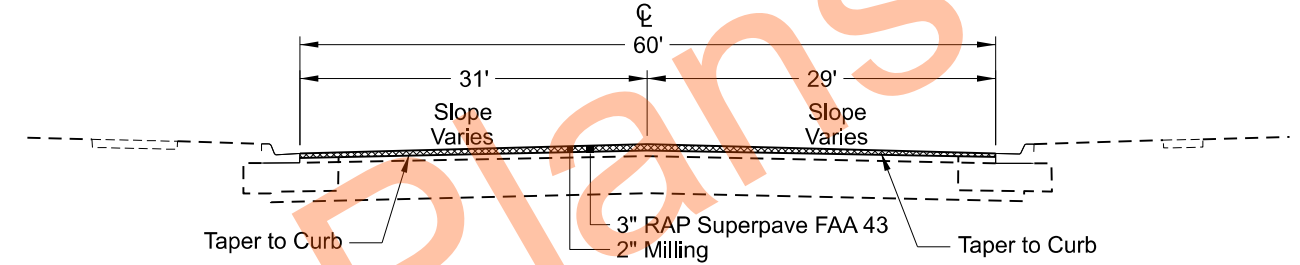
Sta 6468+70.03 to 6481+36.98



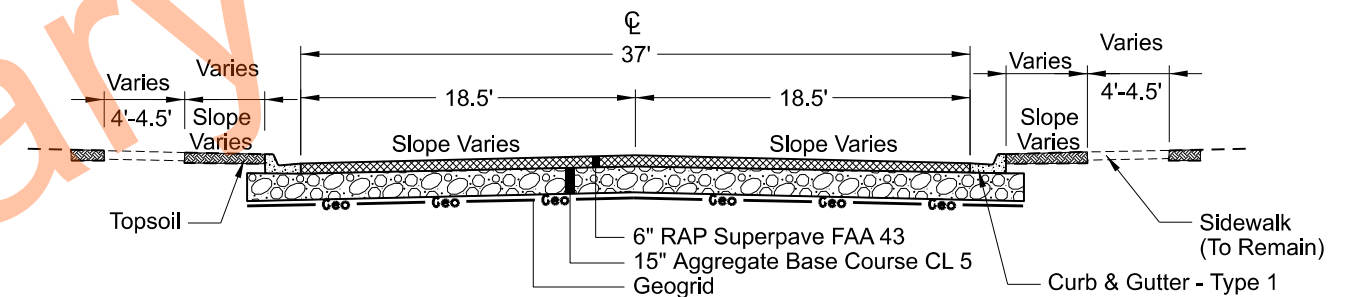
Sta 6481+36.98 to 6540+62.60



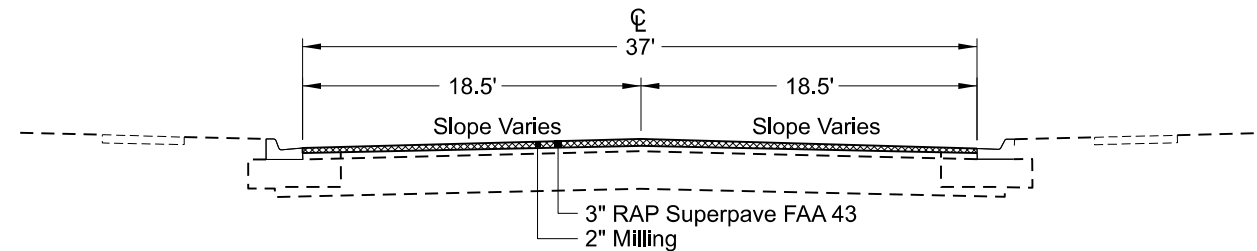
Sta 6540+62.60 to 6545+84.00



Sta 6545+84.00 to 6551+32.80



Sta 6551+32.80 to 6556+80.99

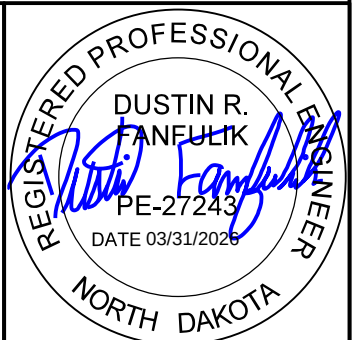


Sta 6556+80.99 to 6566+20.99

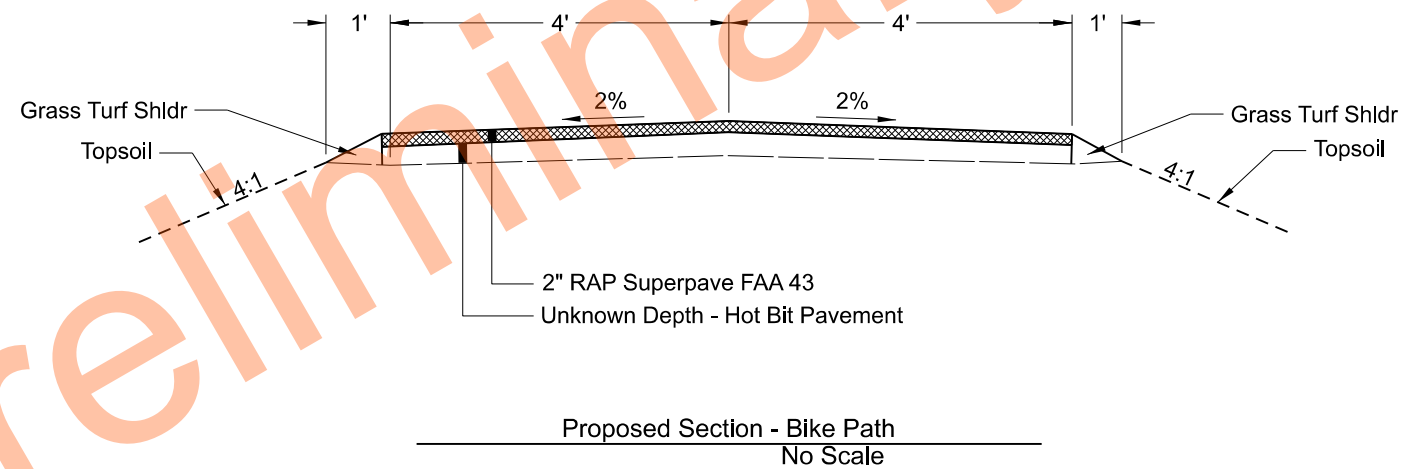
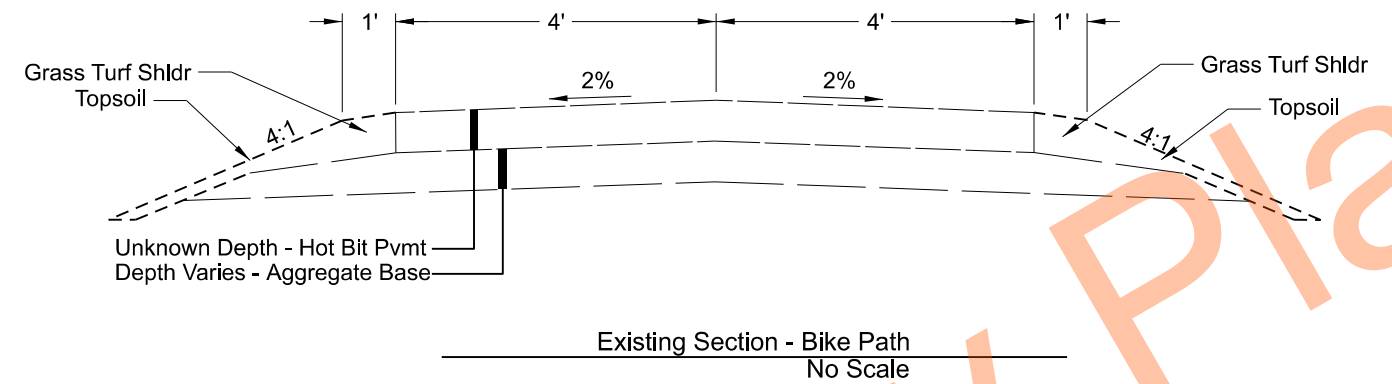
Typical Sections

Proposed Typical Sections

HWY 18, Jct 200 W Through Portland
Mill & Overlay, Reconstruction



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	30	3

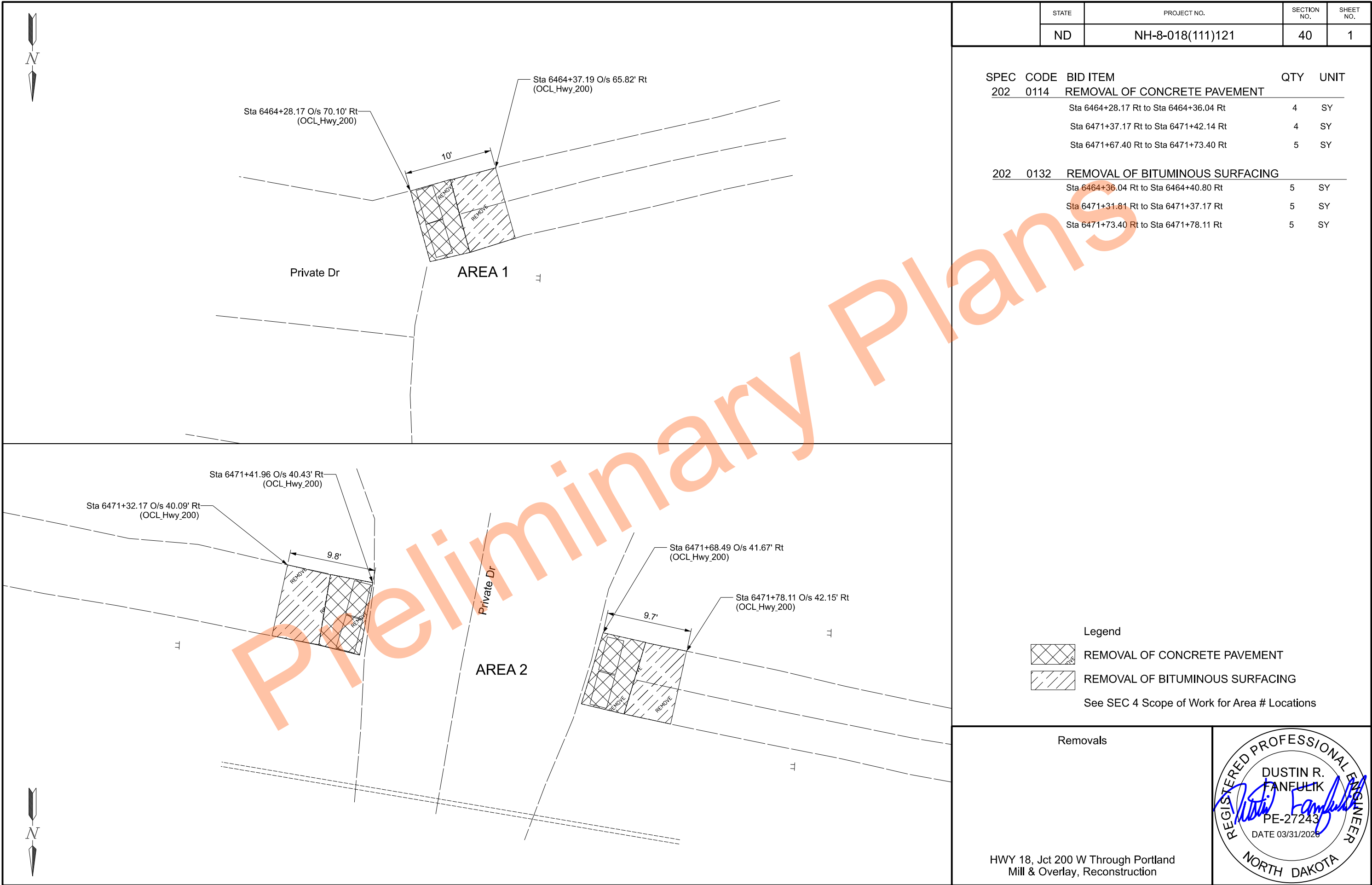


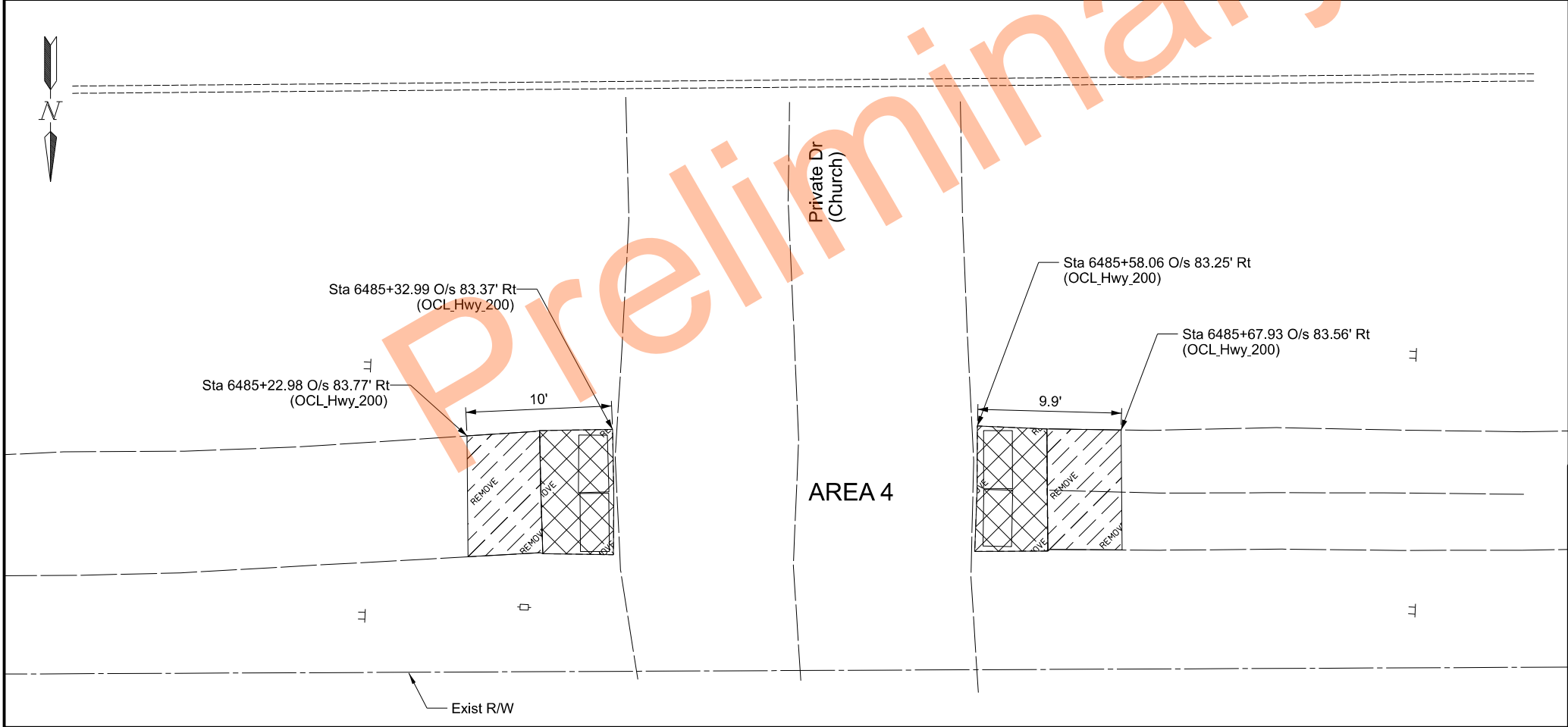
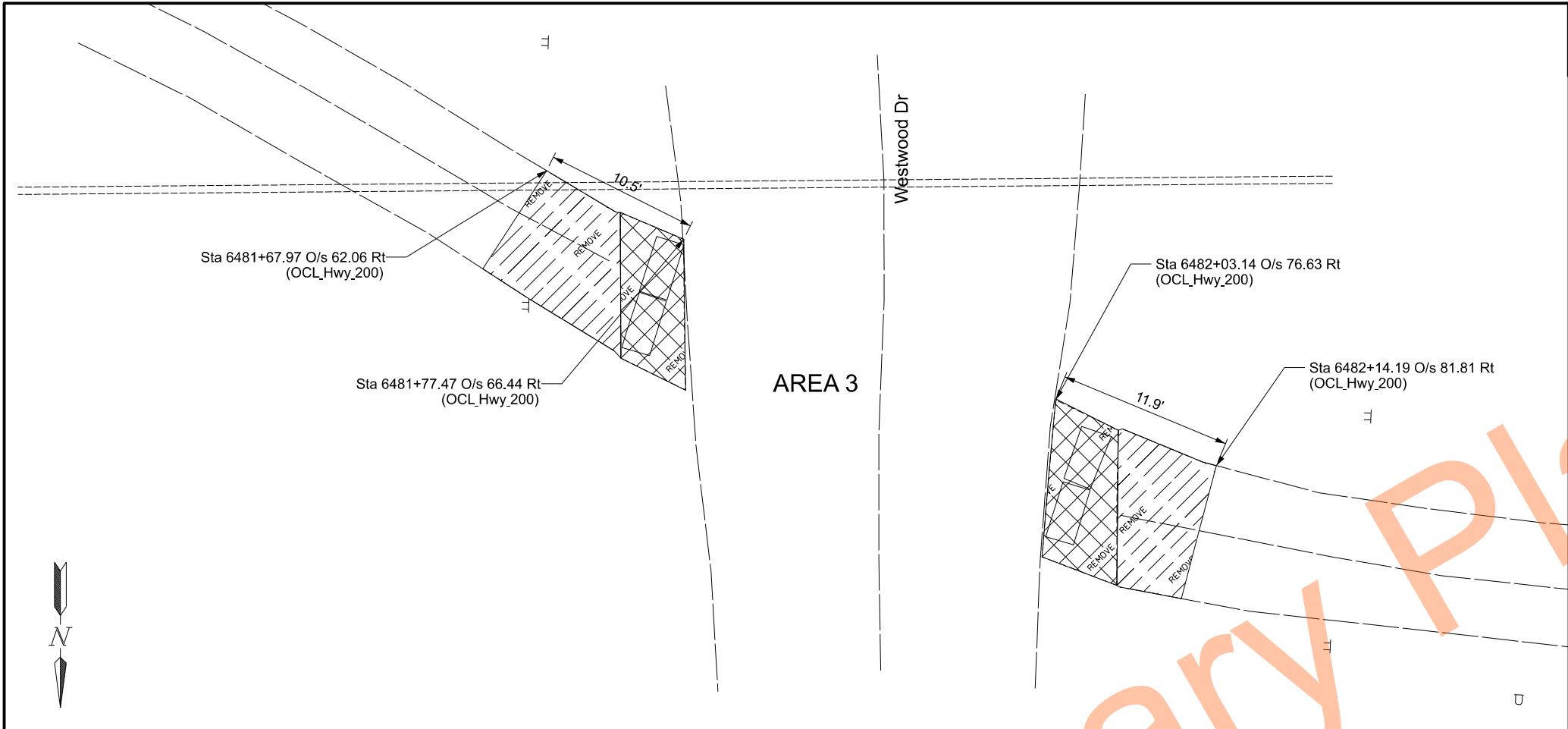
Typical Sections

Existing & Proposed Typical Section
Multi-Use Trail

Hwy 18, Jct 200 W Through Portland
Mill & Overlay, Reconstruction







		STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	NH-8-018(111)121	40	2

SPEC	CODE	BID ITEM	QTY	UNIT
202	0114	REMOVAL OF CONCRETE PAVEMENT		
		Sta 6481+73.09 Rt to Sta 6481+77.95 Rt	5	SY
		Sta 6482+03.14 Rt to Sta 6482+07.68 Rt	6	SY
		Sta 6485+27.98 Rt to Sta 6485+33.06 Rt	5	SY
		Sta 6485+57.84 Rt to Sta 6485+62.87 Rt	5	SY
202	0132	REMOVAL OF BITUMINOUS SURFACING		
		Sta 6481+63.87 Rt to Sta 6481+73.09 Rt	8	SY
		Sta 6482+07.68 Rt to Sta 6482+14.19 Rt	6	SY
		Sta 6485+22.98 Rt to Sta 6485+27.98 Rt	5	SY
		Sta 6485+62.87 Rt to Sta 6485+67.93 Rt	5	SY

REMOV

REMOV

Legend

REMOVAL OF CONCRETE PAVEMENT

REMOVAL OF BITUMINOUS SURFACING

See SEC 4 Scope of Work for Area # Locations

Removals

HWY 18, Jct 200 W Through Portland Mill & Overlay, Reconstruction

REGISTERED PROFESSIONAL ENGINEER

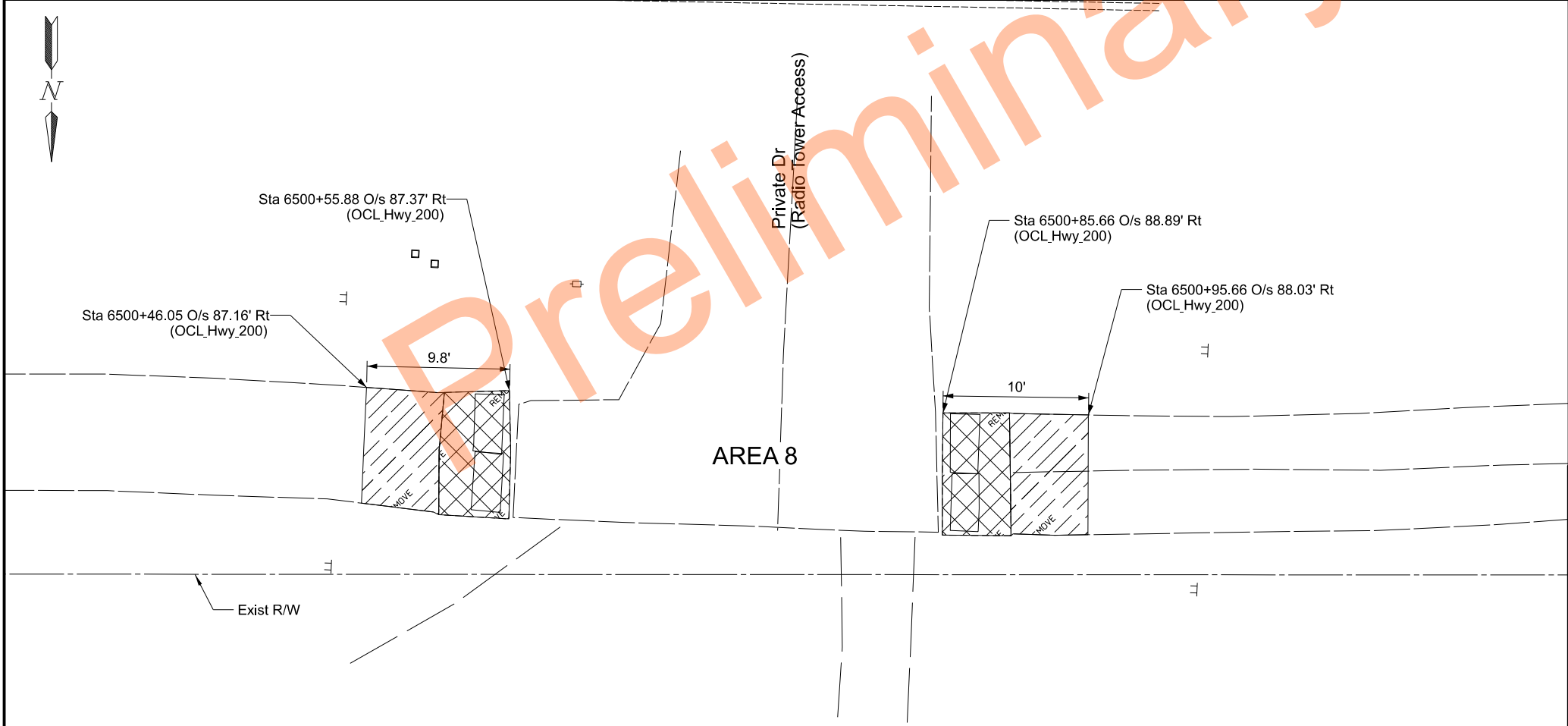
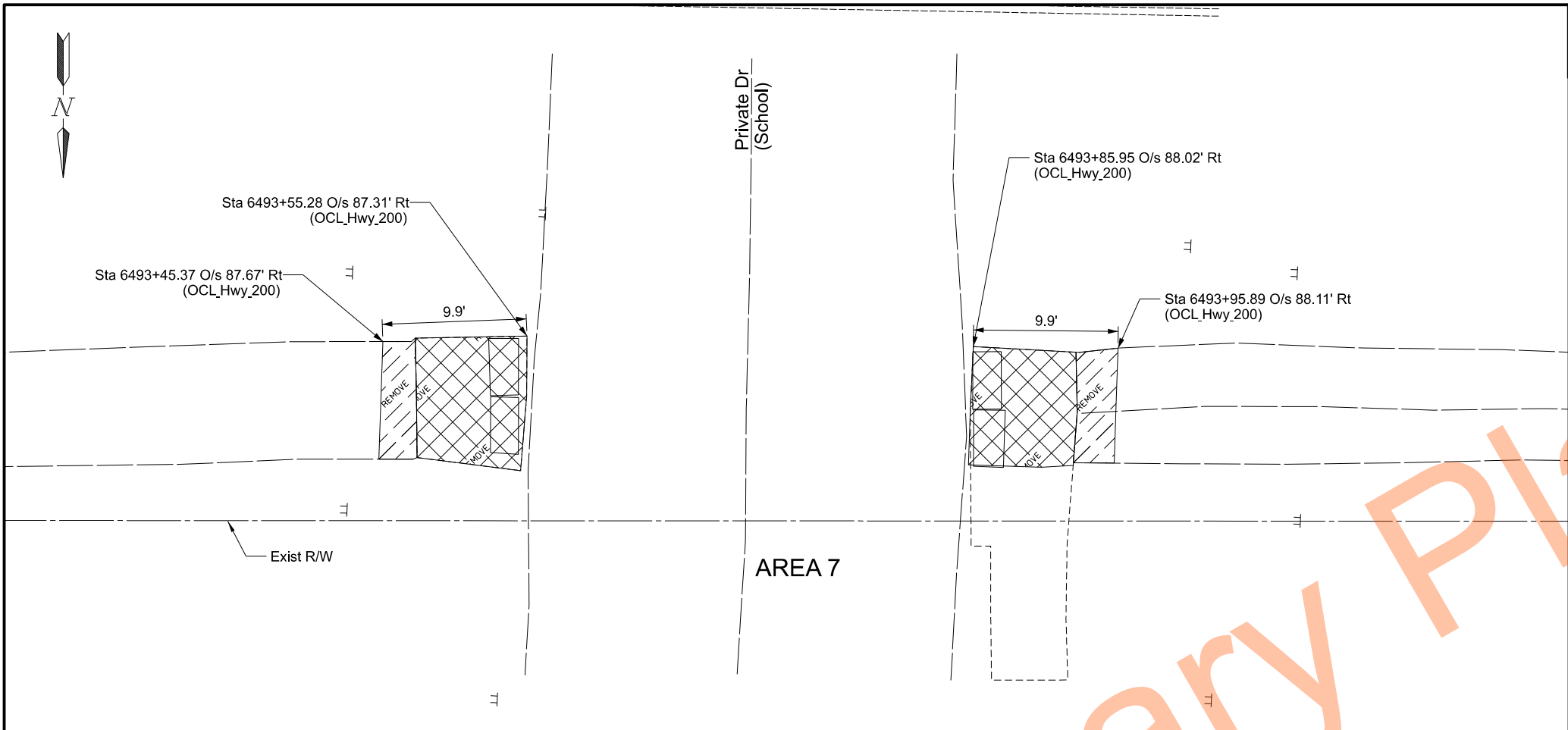
DUSTIN R. FANFULIK

PE-27243

DATE 03/31/2026

NORTH DAKOTA

-6
J'



STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NH-8-018(111)121	40	4

SPEC	CODE	BID ITEM	QTY	UNIT
202	0114	REMOVAL OF CONCRETE PAVEMENT		
		Sta 6493+47.60 Rt to Sta 6493+55.26 Rt	7	SY
		Sta 6493+85.62 Rt to Sta 6493+93.00 Rt	6	SY
		Sta 6500+51.40 Rt to Sta 6500+55.84 Rt	5	SY
		Sta 6500+85.62 Rt to Sta 6500+90.34 Rt	4	SY
202	0132	REMOVAL OF BITUMINOUS SURFACING		
		Sta 6493+45.11 Rt to Sta 6493+47.60 Rt	2	SY
		Sta 6493+93.00 Rt to Sta 6493+95.89 Rt	2	SY
		Sta 6500+45.70 Rt to Sta 6500+51.40 Rt	5	SY
		Sta 6500+90.34 Rt to Sta 6500+95.66 Rt	5	SY

Legend

 REMOVAL OF CONCRETE PAVEMENT

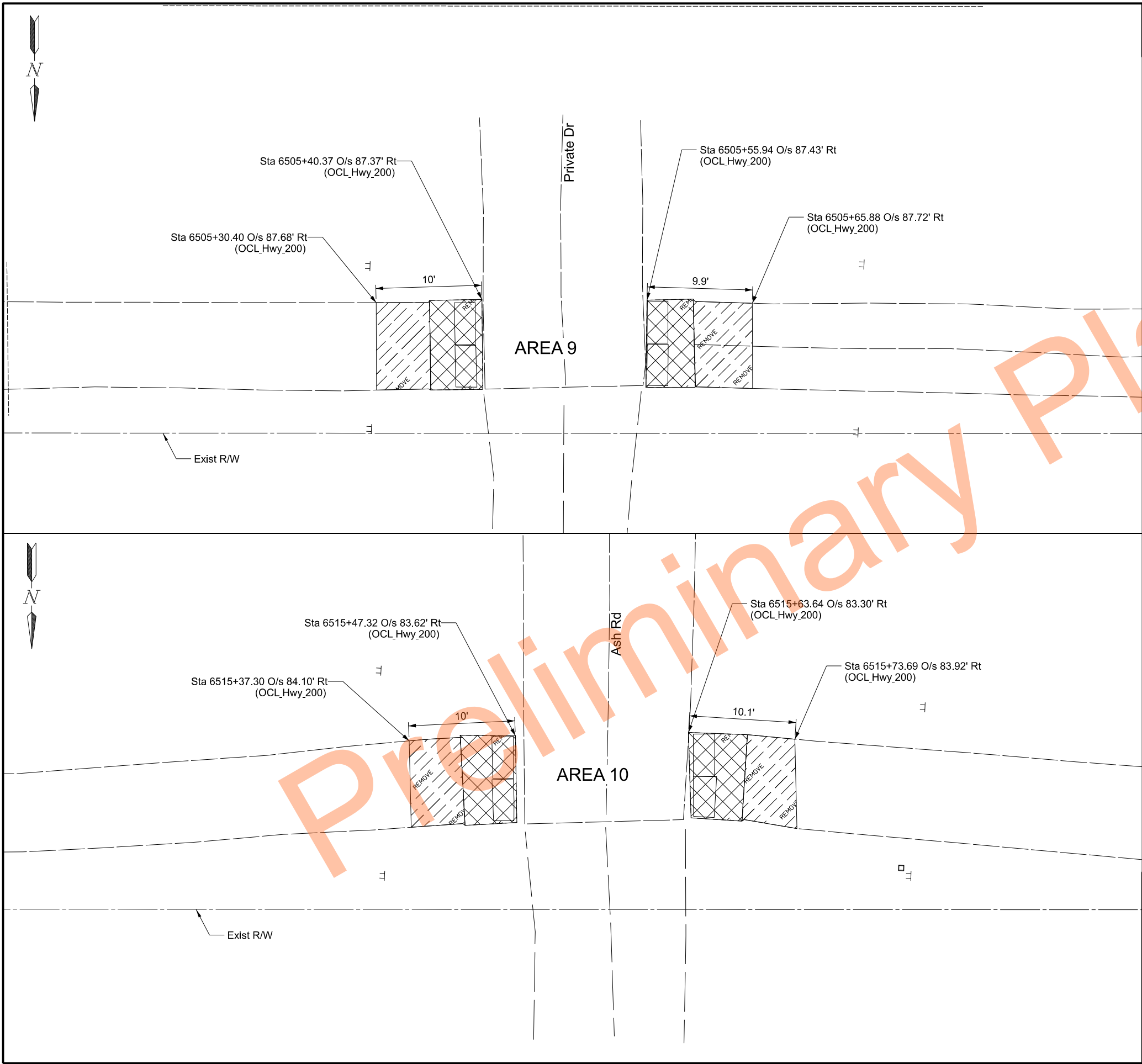
 REMOVAL OF BITUMINOUS SURFACING

See SEC 4 Scope of Work for Area # Locations

Removals

HWY 18, Jct 200 W Through Portland
Mill & Overlay, Reconstruction





	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	40	5

SPEC	CODE	BID ITEM	QTY	UNIT
202	0114	REMOVAL OF CONCRETE PAVEMENT		
		Sta 6505+35.43 Rt to Sta 6505+40.47 Rt	5	SY
		Sta 6505+55.84 Rt to Sta 6505+60.31 Rt	4	SY
		Sta 6515+42.57 Rt to Sta 6515+47.45 Rt	5	SY
		Sta 6515+63.64 Rt to Sta 6515+69.20 Rt	5	SY
202	0132	REMOVAL OF BITUMINOUS SURFACING		
		Sta 6505+30.44 Rt to Sta 6505+35.43 Rt	5	SY
		Sta 6505+60.31 Rt to Sta 6505+65.88 Rt	5	SY
		Sta 6515+37.30 Rt to Sta 6515+42.57 Rt	5	SY
		Sta 6515+69.20 Rt to Sta 6515+73.81 Rt	4	SY

Legend



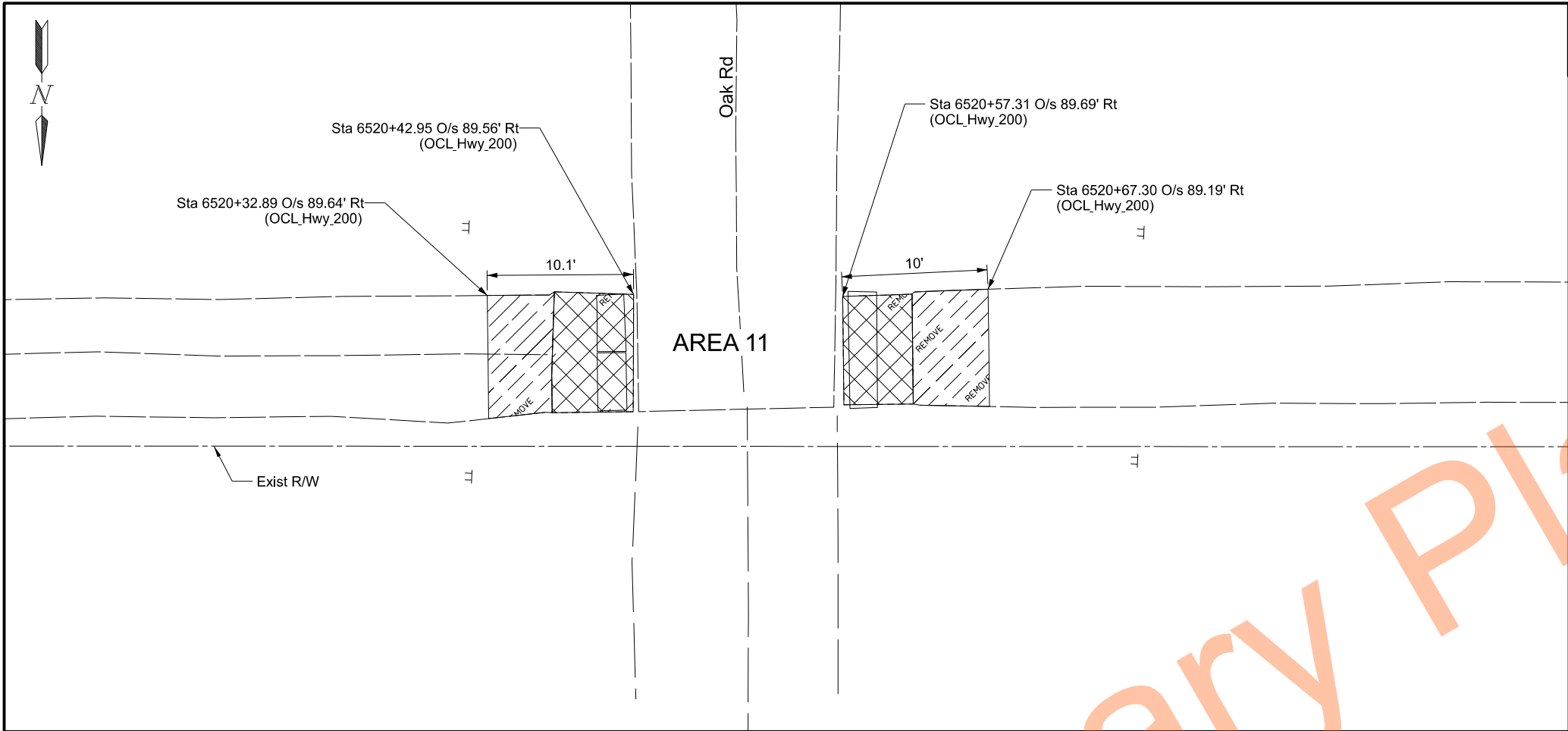
REMOVAL OF CONCRETE PAVEMENT



REMOVAL OF BITUMINOUS SURFACING

See SEC 4 Scope of Work for Area # Locations

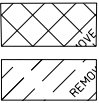
Removals	REGISTERED PROFESSIONAL ENGINEER DUSTIN R. FANFULIK PE-27243 DATE 03/31/2026 NORTH DAKOTA
HWY 18, Jct 200 W Through Portland Mill & Overlay, Reconstruction	



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	40	6

SPEC	CODE	BID ITEM	QTY	UNIT
202	0114	REMOVAL OF CONCRETE PAVEMENT		
		Sta 6520+37.66 Rt to Sta 6520+42.95 Rt	5	SY
		Sta 6520+57.40 Rt to Sta 6520+62.08 Rt	4	SY
202	0132	REMOVAL OF BITUMINOUS SURFACING		
		Sta 6520+32.89 Rt to Sta 6520+37.36 Rt	4	SY
		Sta 6520+62.08 Rt to Sta 6520+67.40 Rt	5	SY

Legend



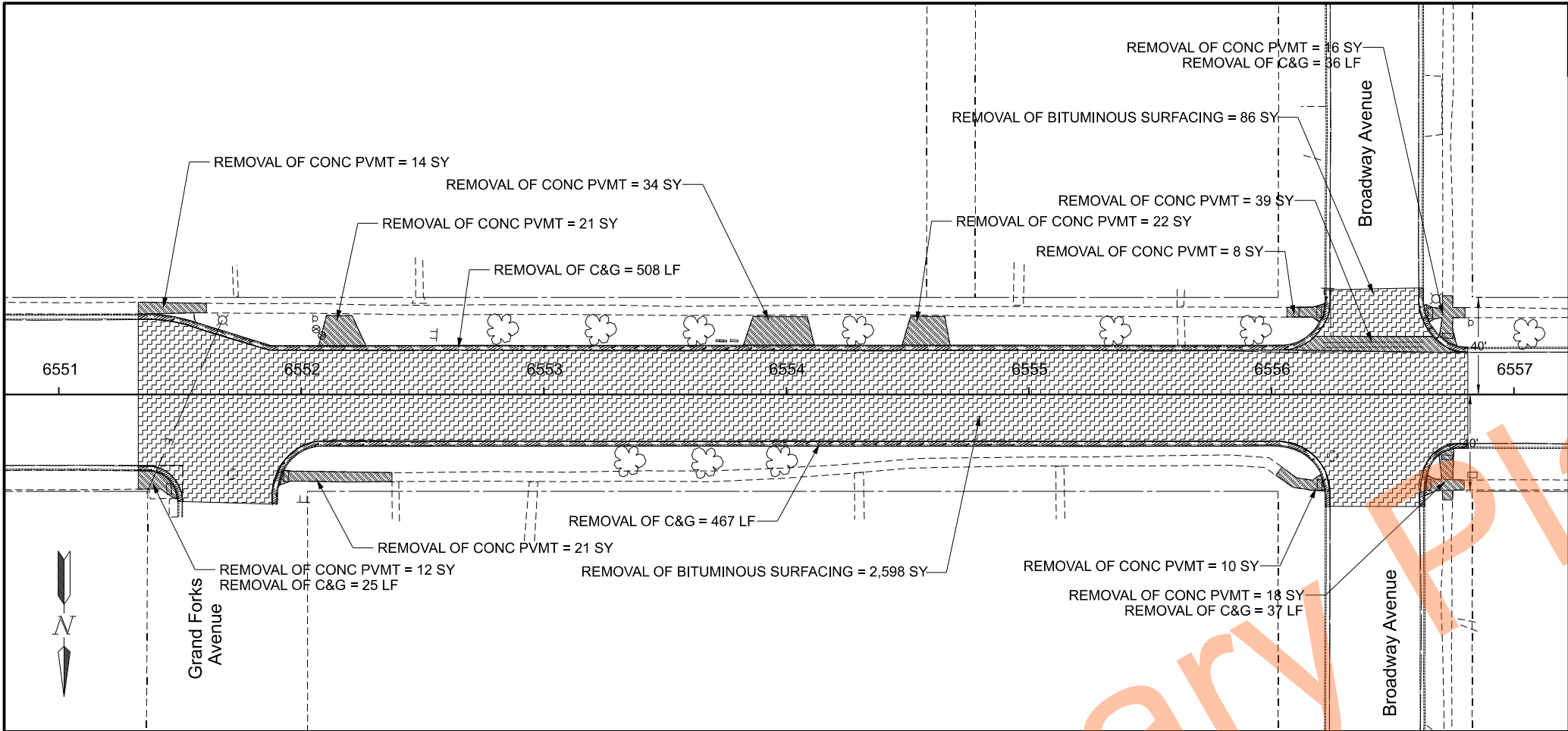
REMOVAL OF CONCRETE PAVEMENT
REMOVAL OF BITUMINOUS SURFACING

See SEC 4 Scope of Work for Area # Locations

Removals



HWY 18, Jct 200 W Through Portland
Mill & Overlay, Reconstruction



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	40	7

SPEC	CODE	BID ITEM	QTY	UNIT
202	0114	REMOVAL OF CONCRETE PAVEMENT		
		Sta 6551+32.79 Lt to Sta 6556+79.80 Lt	154	SY
		Sta 6551+32.80 Rt to Sta 6556+79.43 Rt	61	SY
202	0130	REMOVAL OF CURB & GUTTER		
		Sta 6551+32.78 Lt to Sta 6556+22.03 Lt	508	LF
		Sta 6556+60.86 Lt to Sta 6556+80.99 Lt	36	LF
		Sta 6551+32.80 Rt to Sta 6551+50.92 Rt	25	LF
		Sta 6551+88.17 Rt to Sta 6556+24.13 Rt	467	LF
		Sta 6556+60.95 Rt to Sta 6556+81.12 Rt	37	LF
202	0132	REMOVAL OF BITUMINOUS SURFACING		
		Sta 6551+32.80 to Sta 6556+80.99	2,684	SY

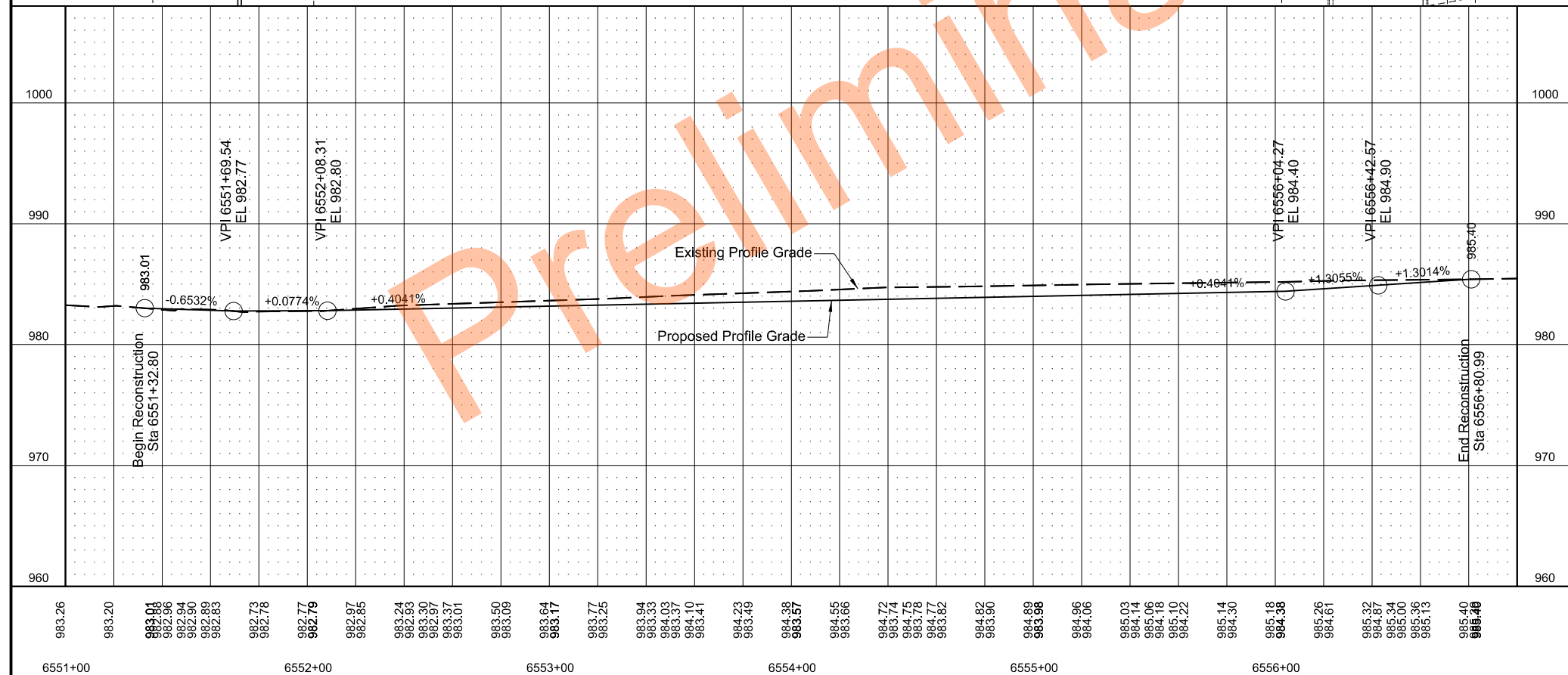
Legend

- REMOVAL OF CONCRETE PAVEMENT
- REMOVAL OF CURB & GUTTER
- REMOVAL OF BITUMINOUS SURFACING

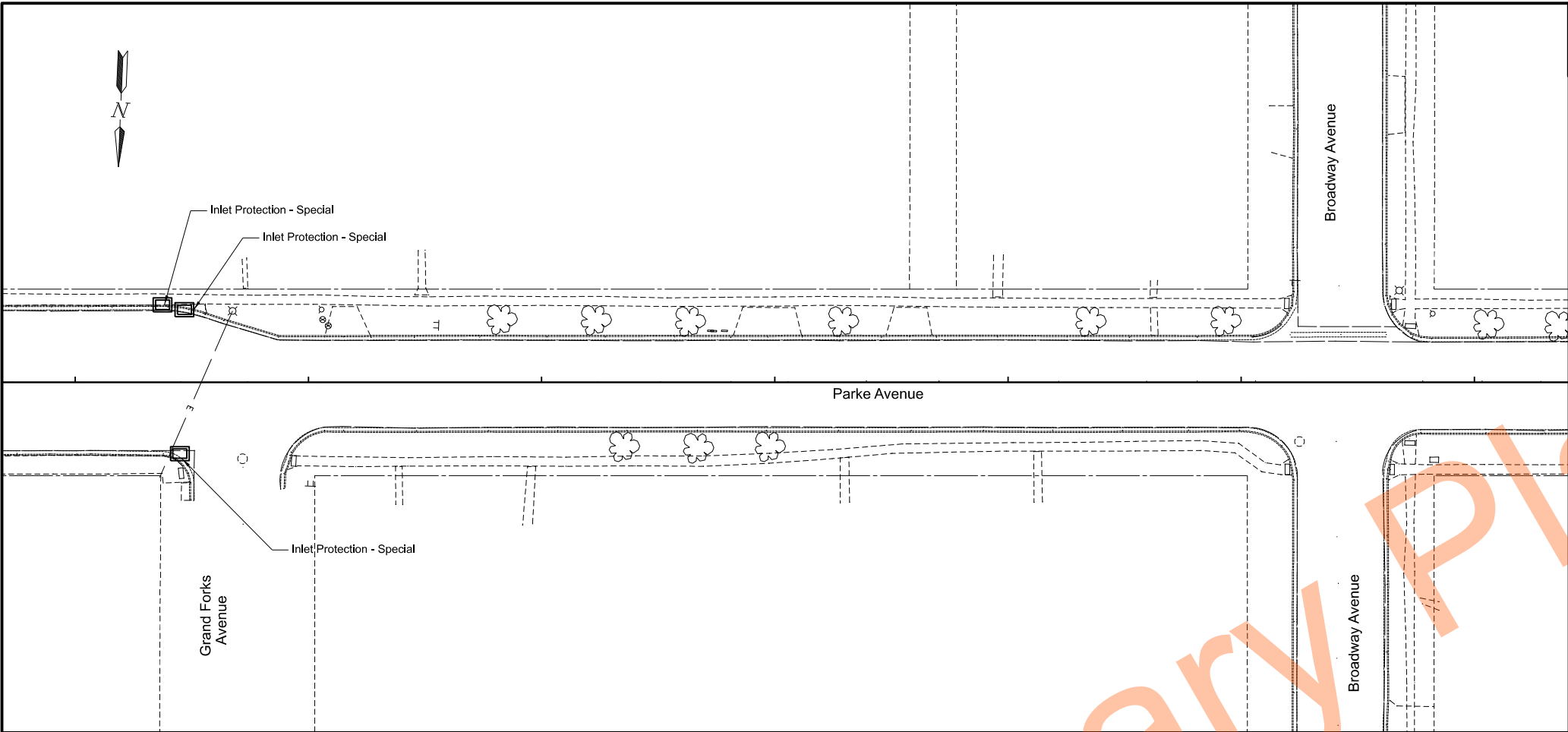
Removals



HWY 18, Jct 200 W Through Portland
Mill & Overlay, Reconstruction



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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	76	1

Legend

 Inlet Protection - Special

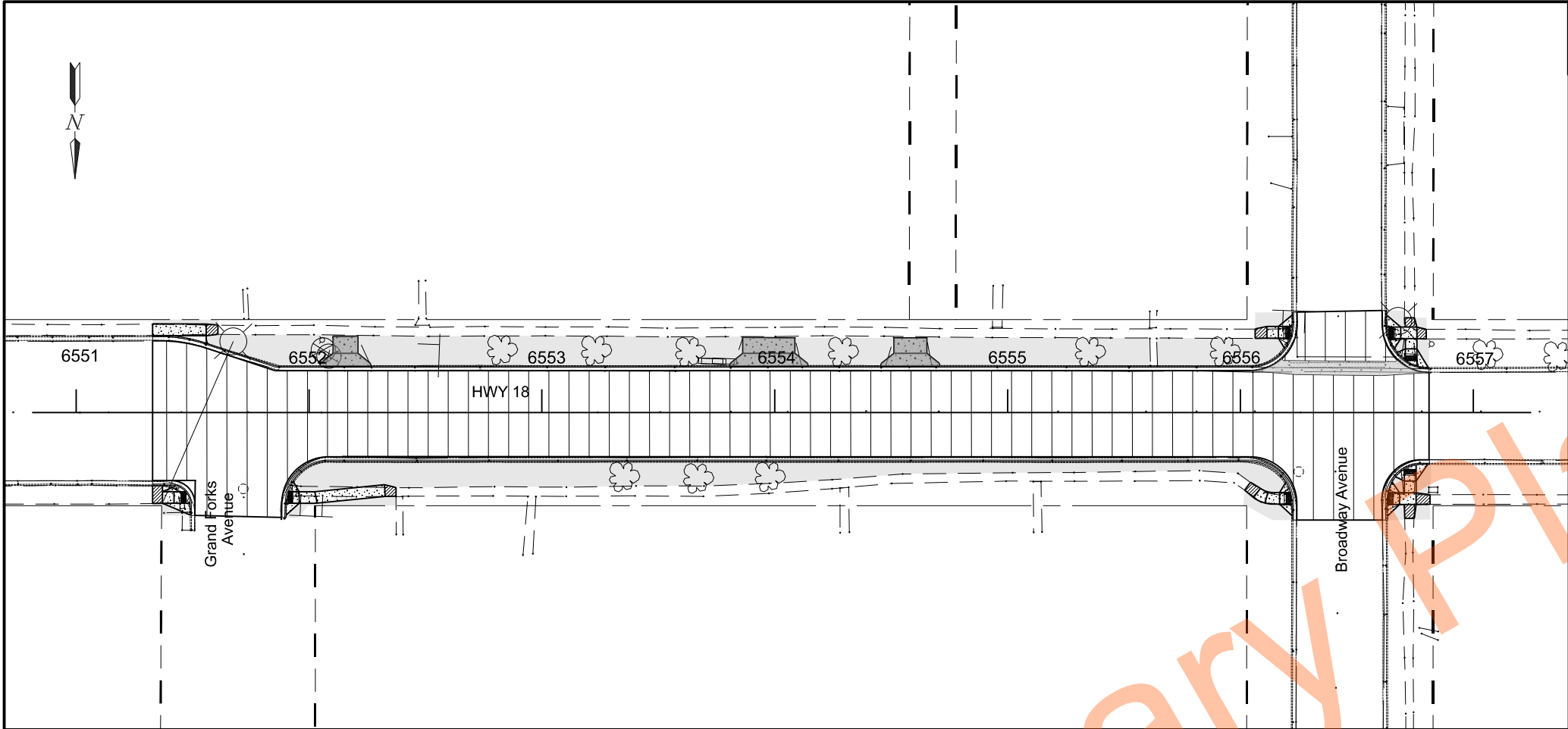
 R/W Line

SPEC	CODE	BID ITEM	QTY	UNIT
708	1540	INLET PROTECTION - SPECIAL		
		Sta 6551+32.00 Lt to Sta 6557+00.00 Lt	2	EA
		Sta 6551+00.00 Rt to Sta 6557+00.00 Rt	1	EA
708	1541	REMOVE INLET PROTECTION - SPECIAL		
		Sta 6551+32.00 Lt to Sta 6557+00.00 Lt	2	EA
		Sta 6551+00.00 Rt to Sta 6557+00.00 Rt	1	EA

Temporary Erosion Control

Sta 6551+00 to 6557+00





STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NH-8-018(111)121	77	1

SPEC	CODE	BID ITEM	QTY	UNIT
251	0310	SEEDING CL III		
		Sta 6551+32.79 Lt to Sta 6556+79.80 Lt	1,011	SY
253	0200	HYDRAULIC MULCH		
		Sta 6551+32.79 Lt to Sta 6556+79.80 Lt	1,011	SY

Legend	
	SIDEWALK LANDING
	RAP-SUPERPAVE FAA 43
	SIDEWALK CONCRETE
	DRIVEWAY CONCRETE
	VALLEY GUTTER
	SEEDING CLASS III / HYDRAULIC MULCH

Permanent Sediment and Erosion Control

Permanent Erosion Control
Portland, North Dakota

HWY 18, Jct 200 W Through Portland



PRELIMINARY SURVEY COORDINATE AND CURVE DATA -Hwy 18 E Jct ND 200 W Through Portland

STATE

PROJECT NO.

SECTION NO.

SHEET NO.

ND

NH-8-018(111)121

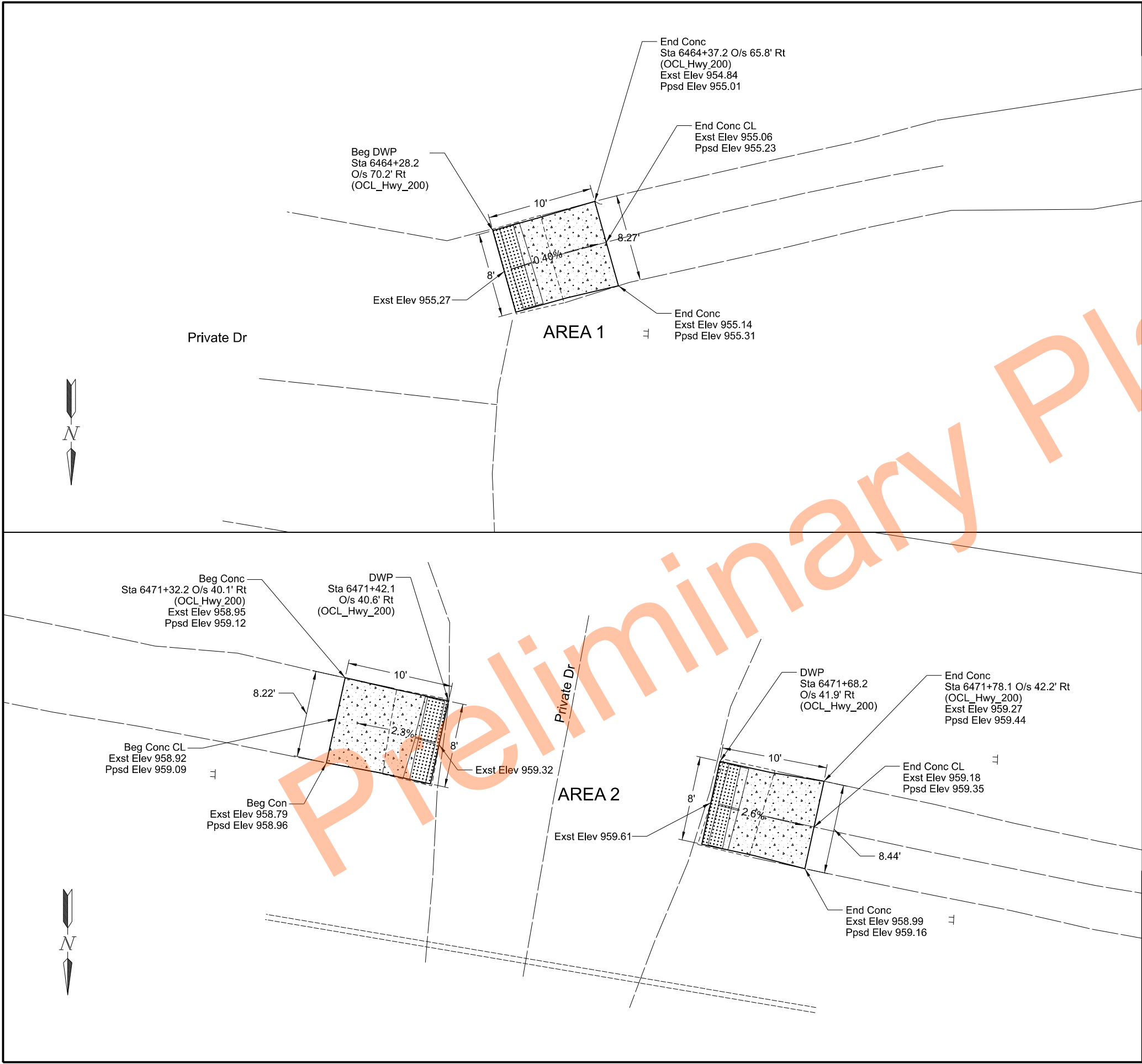
81

1

HORIZONTAL ALIGNMENT				CURVE DATA		US PUBLIC LAND SURVEY DATA				SURVEY CONTROL POINTS									
PNT	STATION	NORTHING	EASTING	ARC DEFINITION		CORNER	IRN	NORTHING	EASTING	PNT	NORTHING	EASTING	ELEV	STATION	OFFSET	ALIGNMENT	MONUMENT		
OCL_HWY_200						T-146-N R-52-W				PRIMARY CONTROL									
Beg	6431+79.23	197,863.76	2,753,415.90			N ¼ Cor Sec 6	2-A	197,820.82	2,750,361.34	GPS 1	197,510.55	2,742,028.31	984.97'	6546+68	43' Lt	OCL_HWY_200	NGS Brass Cap		
PI	6435+89.67	197,847.60	2,753,005.77			N ¼ Cor Sec 5	4-A	197,951.36	2,755,639.77	GPS 2	200,100.02	2,741,391.01	984.57'	6552+00	2470' Rt	OCL_HWY_200	WSN CAP		
PC	6444+58.84	197,799.51	2,752,138.70																
PI	6444+83.20	197,793.51	2,752,115.09	CURVE		T-146-N R-53-W													
CS	6445+07.51	197,785.14	2,752,092.22	PI = 6444+83.20		NW Cor Sec 2	9-A	197,364.26	2,737,377.58	SECONDARY CONTROL									
SPI	6445+74.46	197,762.14	2,752,029.35	Delta = 05°50'28" (LT)		N ¼ Cor Sec 2	10-A	197,472.37	2,740,019.71	RTK 7	197,778.02	2,745,094.78	982.61'	6515+93	99' Rt	OCL_HWY_200	Spike		
ST	6447+07.51	197,691.13	2,751,916.14	Da = 12°00'00"		NE Cor Sec 2	11-A	197,579.32	2,742,661.68	RTK 8	197,783.77	2,745,213.20	982.57'	6514+75	100' Rt	OCL_HWY_200	Spike		
TS	6447+90.72	197,646.92	2,751,845.64	R = 477.46						RTK 9	197,805.21	2,746,045.94	982.33'	6506+42	87' Rt	OCL_HWY_200	Spike		
SPI	6449+91.76	197,540.09	2,751,675.33	T = 24.36'		T-147-N R-52-W				RTK 10	197,821.66	2,746,196.28	982.15'	6504+91	97' Rt	OCL_HWY_200	Spike		
SC	6450+90.72	197,515.51	2,751,577.42	L = 48.68		SE Cor Sec 31	3-N	197,847.60	2,753,005.77	RTK 11	197,835.85	2,746,536.36	982.05'	6501+50	98' Rt	OCL_HWY_200	Spike		
PI	6451+07.26	197,511.48	2,751,561.38	CURVE	Curve Combination					RTK 12	197,845.83	2,747,039.25	981.08'	6496+48	87' Rt	OCL_HWY_200	Spike		
PI	6451+16.71	197,473.70	2,751,569.48	PI = 6451+07.26	PI = 6451+16.71	T-147-N R-52-W				RTK 13	197,848.66	2,748,178.88	982.36'	6485+09	42' Rt	OCL_HWY_200	Spike		
CS	6451+23.79	197,508.57	2,751,545.09	Delta = 03°58'08" (RT)	Delta = 39°58'07" (RT)	SW Cor Sec 36	11-N	197,579.32	2,742,661.68	RTK 14	197,895.65	2,748,519.16	981.07'	6481+70	80' Rt	OCL_HWY_200	Spike		
SPI	6452+24.74	197,490.81	2,751,445.71	Da = 12°00'00"	Da = 12°00'00"	S ¼ Cor Sec 36	12-N	197,687.98	2,745,311.42	RTK 15	197,797.04	2,749,440.36	960.34'	6472+50	31' Rt	OCL_HWY_200	Spike		
ST	6454+23.80	197,518.35	2,751,246.56	R = 477.47	R = 477.47'	SE Cor Sec 36	13-N	197,796.50	2,747,961.02	RTK 16	197,781.74	2,749,602.08	957.56'	6470+89	36' Rt	OCL_HWY_200	Spike		
PC	6470+73.30	197,744.27	2,749,612.60	T = 16.54'	Ts = 325.99'					RTK 17	197,727.52	2,750,442.58	954.36'	6462+49	97' Rt	OCL_HWY_200	Spike		
PI	6477+75.49	197,840.44	2,748,917.03	L = 33.07	L = 33.07'					RTK 18	197,690.44	2,750,577.52	952.70'	6461+10	79' Rt	OCL_HWY_200	Spike		
PT	6484+73.74	197,808.20	2,748,215.59	CURVE	Ls = 300.00'	REFERENCE MARKERS				RTK 20	197,523.47	2,740,569.23	994.28'	6561+25	28' Rt	OCL_HWY_200	Spike		
PI	6487+28.57	197,796.50	2,747,961.02	PI = 6477+75.49	Sc = 17°59'59"	R Mkr #	NORTHING	EASTING	STATION	O/S	ALIGNMENT	RTK 21	197,487.56	2,741,090.29	984.96'	6556+06	28' Lt	OCL_HWY_200	Spike
PI	6513+80.39	197,687.98	2,745,311.42	Delta = 10°30'12" (LT)		123	197,793.09	2,747,247.27	6494+48	25' Rt	OCL_HWY_200	RTK 22	197,574.55	2,741,560.38	982.40'	6551+33	40' Rt	OCL_HWY_200	Spike
PI	6540+32.36	197,579.32	2,742,661.68	Da = 00°45'00"						RTK 23	197,510.29	2,742,004.09	984.83'	6546+92	42' Lt	OCL_HWY_200	Spike		
PC	6566+34.25	197,474.08	2,740,061.92	R = 7639.49						RTK 24	197,601.79	2,742,247.27	985.08'	6544+46	39' Rt	OCL_HWY_200	Spike		
PI	6570+47.65	197,457.36	2,739,648.86	T = 702.19'	CURVE														
PT	6574+60.95	197,425.76	2,739,236.68	L = 1400.44	PI = 6570+47.65														
PC	6589+62.45	197,310.96	2,737,739.57		Delta = 02°04'00" (LT)														
PI	6593+20.92	197,283.55	2,737,382.16	CURVE	Da = 00°15'00"														
PT	6596+79.15	197,278.54	2,737,023.72	PI = 6593+20.92	R = 22919.14														
				Delta = 03°35'01" (RT)	T = 413.39'														
				Da = 00°30'00"	L = 826.70					All coordinates and measurements on this document derived from the International Foot definition									
				R = 11459.19						INITIALIZING BENCH MARK		☒ NAVD-88		☐ GEOID12B		☐			
				T = 358.47'						OPUS		☐		☒ GEOID18					
				L = 716.70						Date Survey		☐ Assumed Coordinates							
										Completed 09/13/24		☒ All coordinates on this sheet are <u>Trail</u> County ground coordinates. They are derived from the NAD83(2011) reference frame; North Dakota North Zone Combination Factor (cf) = <u>0.9999525</u>							
NOTES: Sheet 1 of 1																			

3/31/20263:20:40 PMRyan.BergW:\Projects\North Dakota Dept of Transportation (NDDOT)-39648\2022-11870\Design\Sheets\081CD_001.dgn

REGISTERED PROFESSIONAL ENGINEER
DUSTIN R. FANFULIK
PE-27243
DATE 03/31/2026
NORTH DAKOTA



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	90	1

SPEC	CODE	BID ITEM	QTY	UNIT
750	0100	SIDEWALK CONCRETE		
		Sta 6464+28.22 Rt to Sta 6464+37.21 Rt	9	SY
		Sta 6471+32.20 Rt to Sta 6471+42.10 Rt	9	SY
		Sta 6471+68.20 Rt to Sta 6471+78.10 Rt	9	SY
750	2115	DETECTABLE WARNING PANELS		
		Sta 6464+28.22 Rt to Sta 6464+33.51 Rt	16	SF
		Sta 6471+39.76 Rt to Sta 6471+42.10 Rt	16	SF
		Sta 6471+67.77 Rt to Sta 6520+62.?? Rt	16	SF

Legend



SIDEWALK CONCRETE



DETECTABLE WARNING PANELS

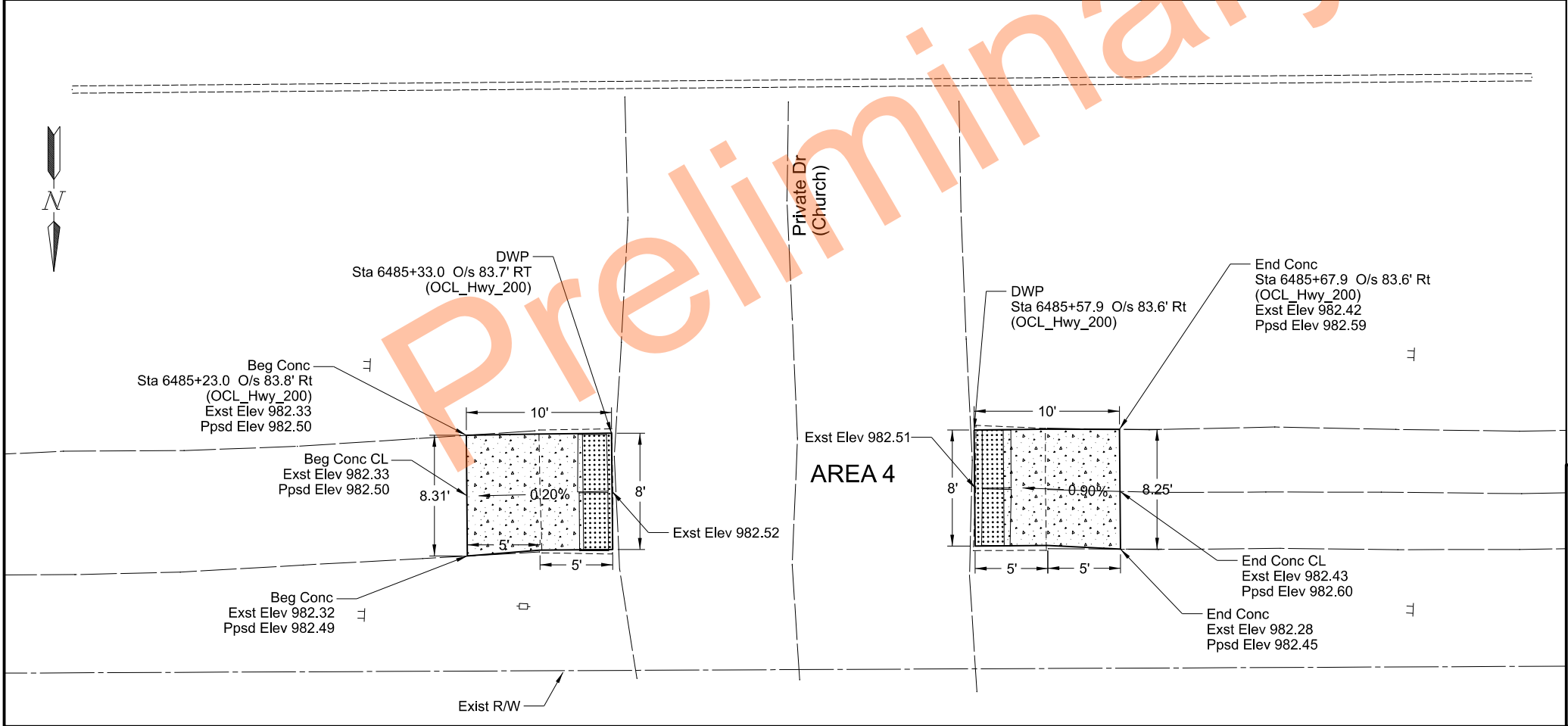
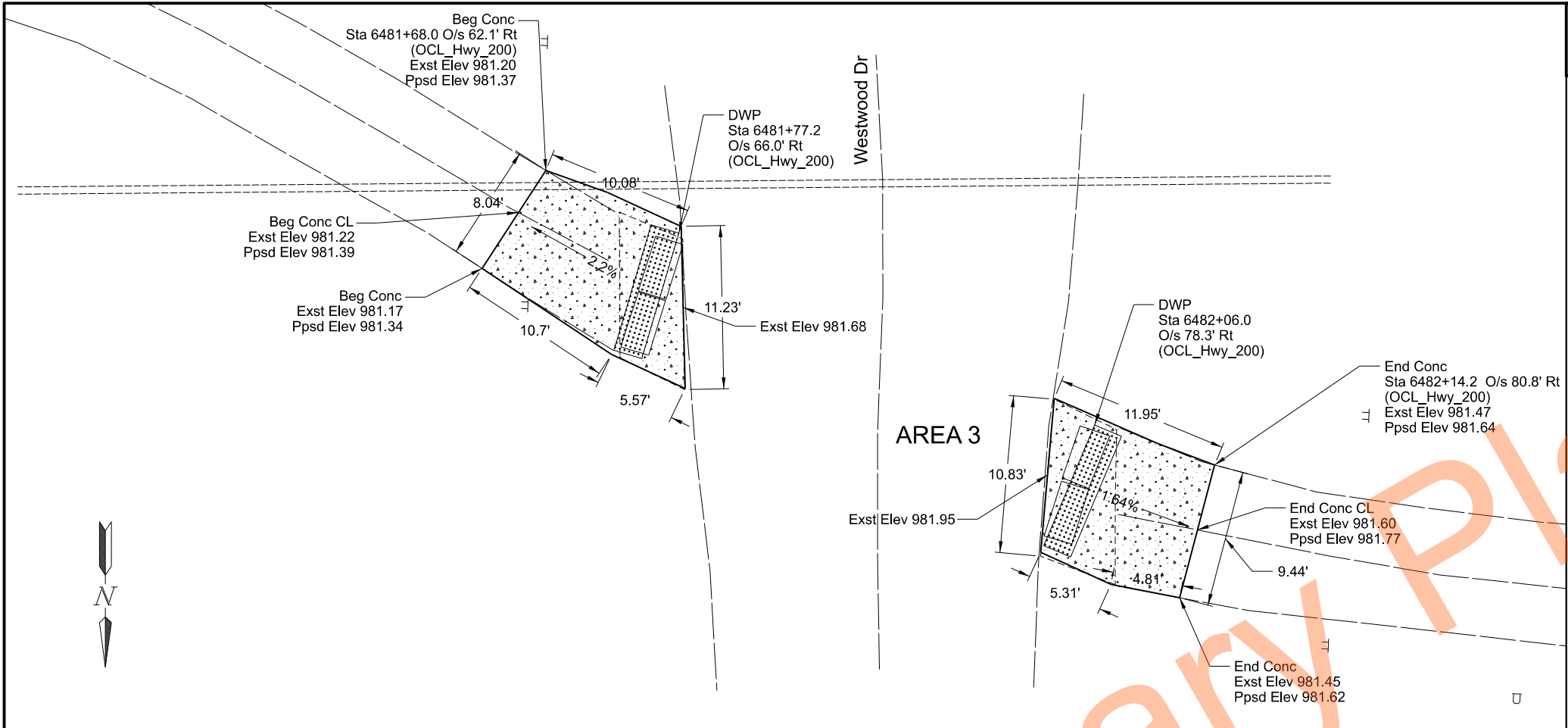
Paving Layouts

ADA Ramps - Shared Use Path

HWY 18, Jct 200 W Through Portland

Mill & Overlay, Reconstruction





STATE		PROJECT NO.	SECTION NO.	SHEET NO.
ND		NH-8-018(111)121	90	2

SPEC	CODE	BID ITEM	QTY	UNIT
750	0100	SIDEWALK CONCRETE		
		Sta 6481+68.00 Rt to Sta 6481+77.99 Rt	14	SY
		Sta 6482+06.00 Rt to Sta 6482+14.20 Rt	12	SY
		Sta 6485+23.02 Rt to Sta 6485+33.02 Rt	9	SY
		Sta 6485+57.93 Rt to Sta 6485+67.90 Rt	9	SY
750	2115	DETECTABLE WARNING PANELS		
		Sta 6481+73.05 Rt to Sta 6481+77.19 Rt	18	SF
		Sta 6482+02.75 Rt to Sta 6482+07.80 Rt	18	SF
		Sta 6485+30.98 Rt to Sta 6485+33.02 Rt	16	SF
		Sta 6485+57.93 Rt to Sta 6485+59.97 Rt	16	SF

Legend

SIDEWALK CONCRETE

DETECTABLE WARNING PANELS

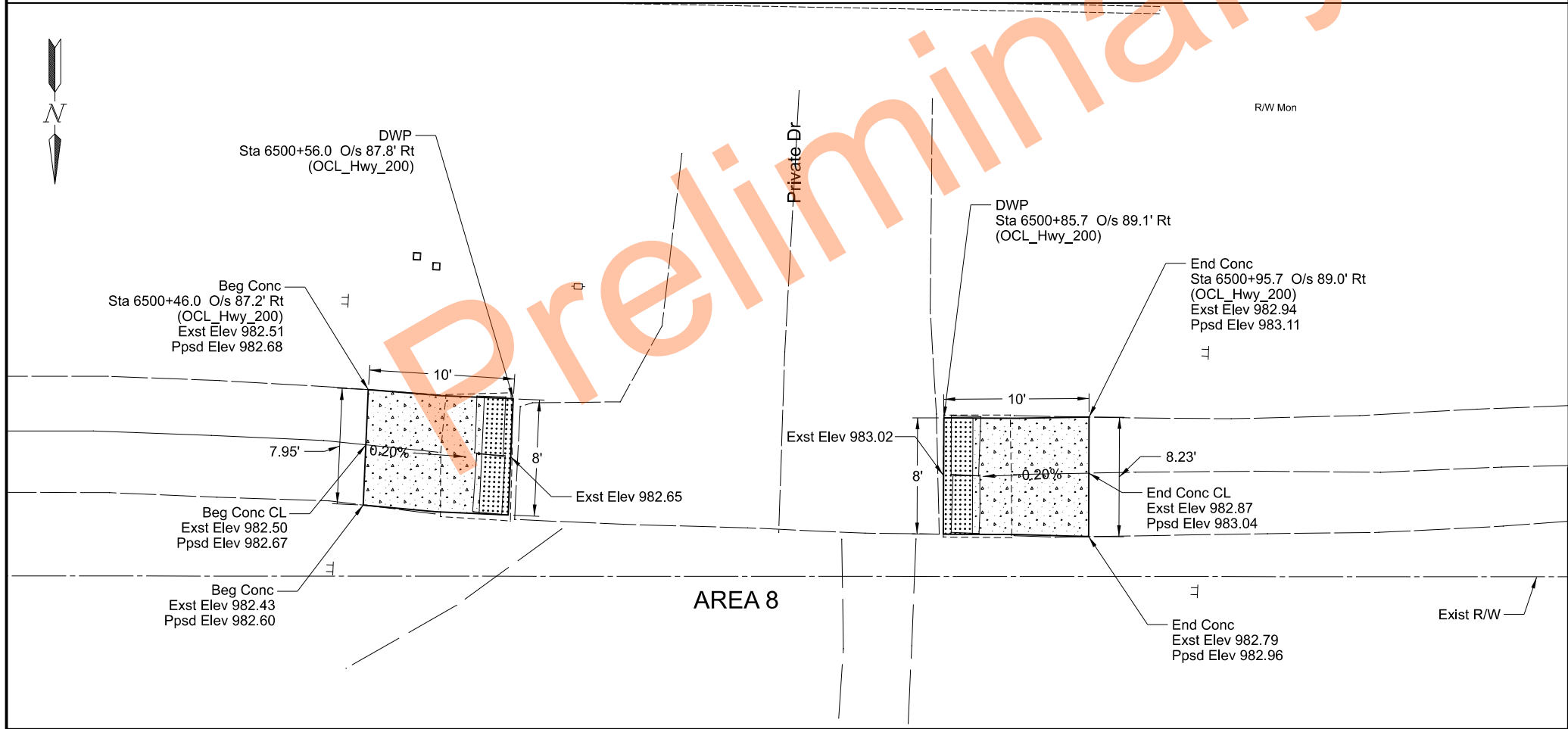
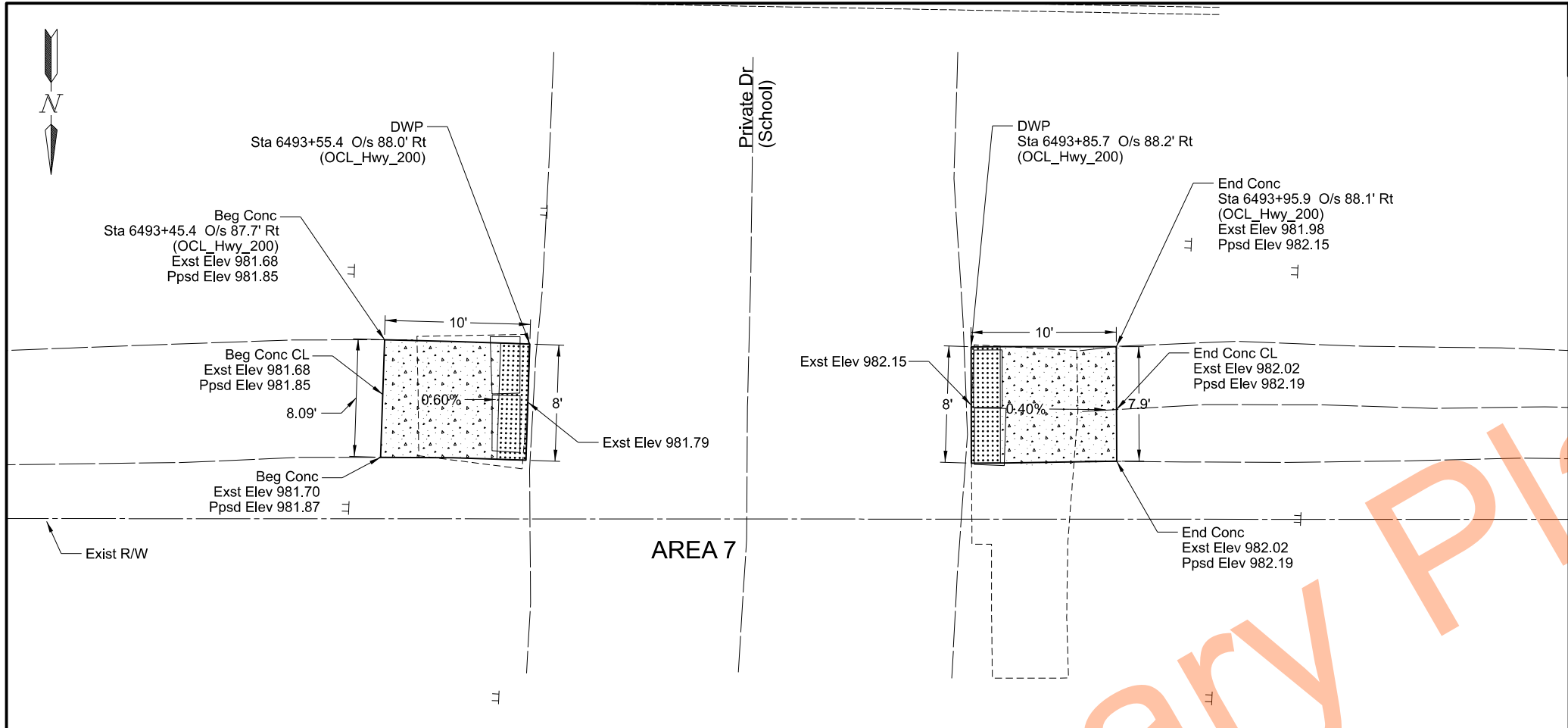
Paving Layouts

ADA Ramps - Shared Use Path

HWY 18, Jct 200 W Through Portland

Mill & Overlay, Reconstruction

REGISTERED PROFESSIONAL ENGINEER
DUSTIN R. FANFULIK
PE-27243
DATE 03/31/2026
NORTH DAKOTA



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	90	4

SPEC	CODE	BID ITEM	QTY	UNIT
750	0100	SIDEWALK CONCRETE		
		Sta 6493+45.40 Rt to Sta 6493+55.37 Rt	9	SY
		Sta 6493+85.90 Rt to Sta 6493+95.90 Rt	9	SY
		Sta 6500+46.00 Rt to Sta 6500+56.03 Rt	9	SY
		Sta 6500+85.70 Rt to Sta 6500+95.70 Rt	9	SY
750	2115	DETECTABLE WARNING PANELS		
		Sta 6493+53.11 Rt to Sta 6493+55.37 Rt	16	SF
		Sta 6493+85.62 Rt to Sta 6493+87.88 Rt	16	SF
		Sta 6500+53.68 Rt to Sta 6500+56.03 Rt	16	SF
		Sta 6500+85.62 Rt to Sta 6500+87.66 Rt	16	SF

Legend

SIDEWALK CONCRETE

DETECTABLE WARNING PANELS

Paving Layouts

ADA Ramps - Shared Use Path

HWY 18, Jct 200 W Through Portland

Mill & Overlay, Reconstruction

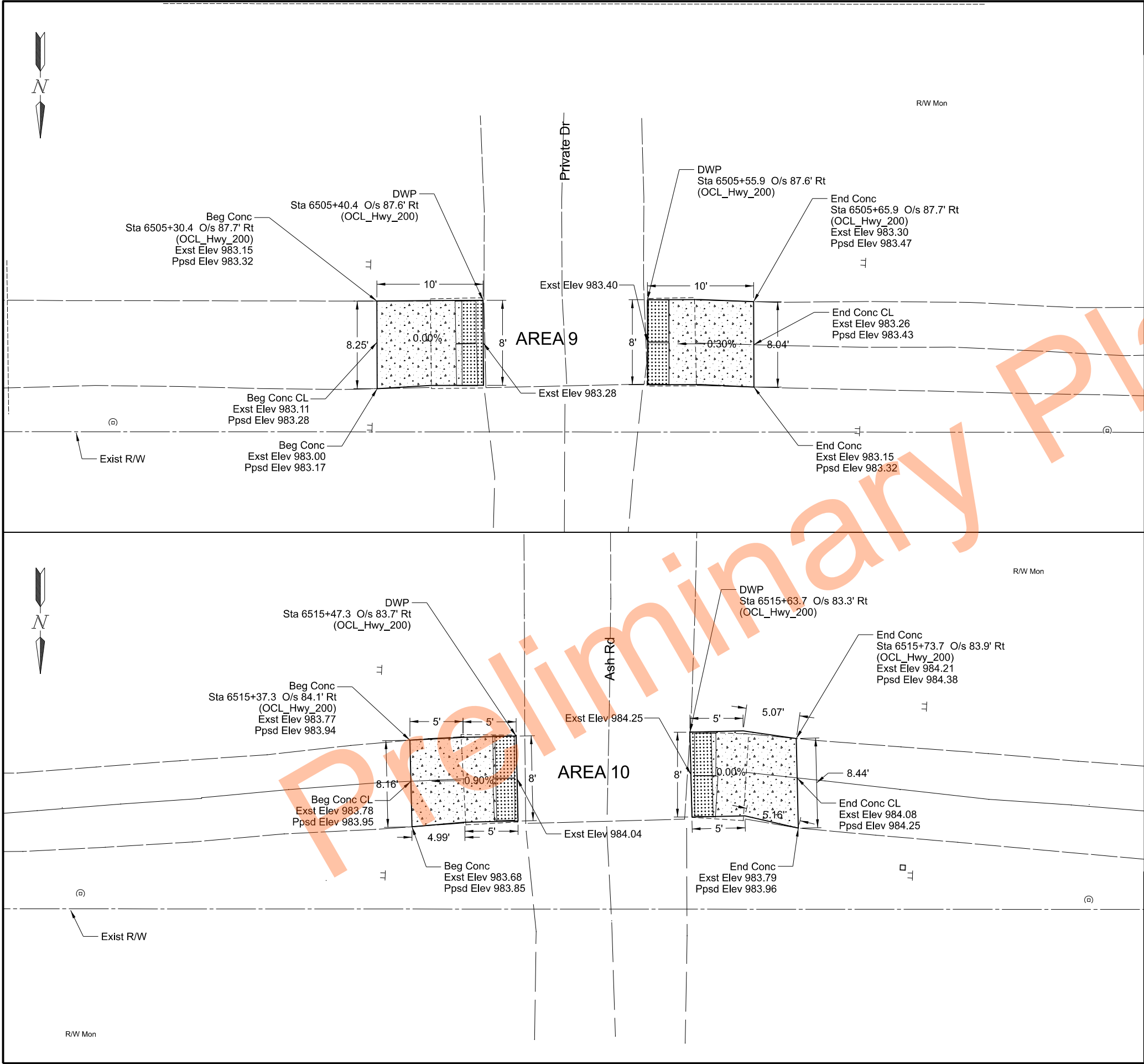
REGISTERED PROFESSIONAL ENGINEER

DUSTIN R. FANKULIK

PE-27243

DATE 03/31/2026

NORTH DAKOTA



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	90	5

SPEC	CODE	BID ITEM	QTY	UNIT
750	0100	SIDEWALK CONCRETE		
		Sta 6505+30.40 Rt to Sta 6505+40.44 Rt	9	SY
		Sta 6505+55.88 Rt to Sta 6505+65.91 Rt	9	SY
		Sta 6515+37.30 Rt to Sta 6515+47.3 Rt	9	SY
		Sta 6515+63.67 Rt to Sta 6515+73.70 Rt	9	SY
750	2115	DETECTABLE WARNING PANELS		
		Sta 6505+38.40 Rt to Sta 6505+40.44 Rt	16	SF
		Sta 6505+55.88 Rt to Sta 6505+57.91 Rt	16	SF
		Sta 6515+45.30 Rt to Sta 6515+47.48 Rt	16	SF
		Sta 6515+63.67 Rt to Sta 6515+65.86 Rt	16	SF

Legend

SIDEWALK CONCRETE

DETECTABLE WARNING PANELS

Paving Layouts

ADA Ramps - Shared Use Path

HWY 18, Jct 200 W Through Portland

Mill & Overlay, Reconstruction

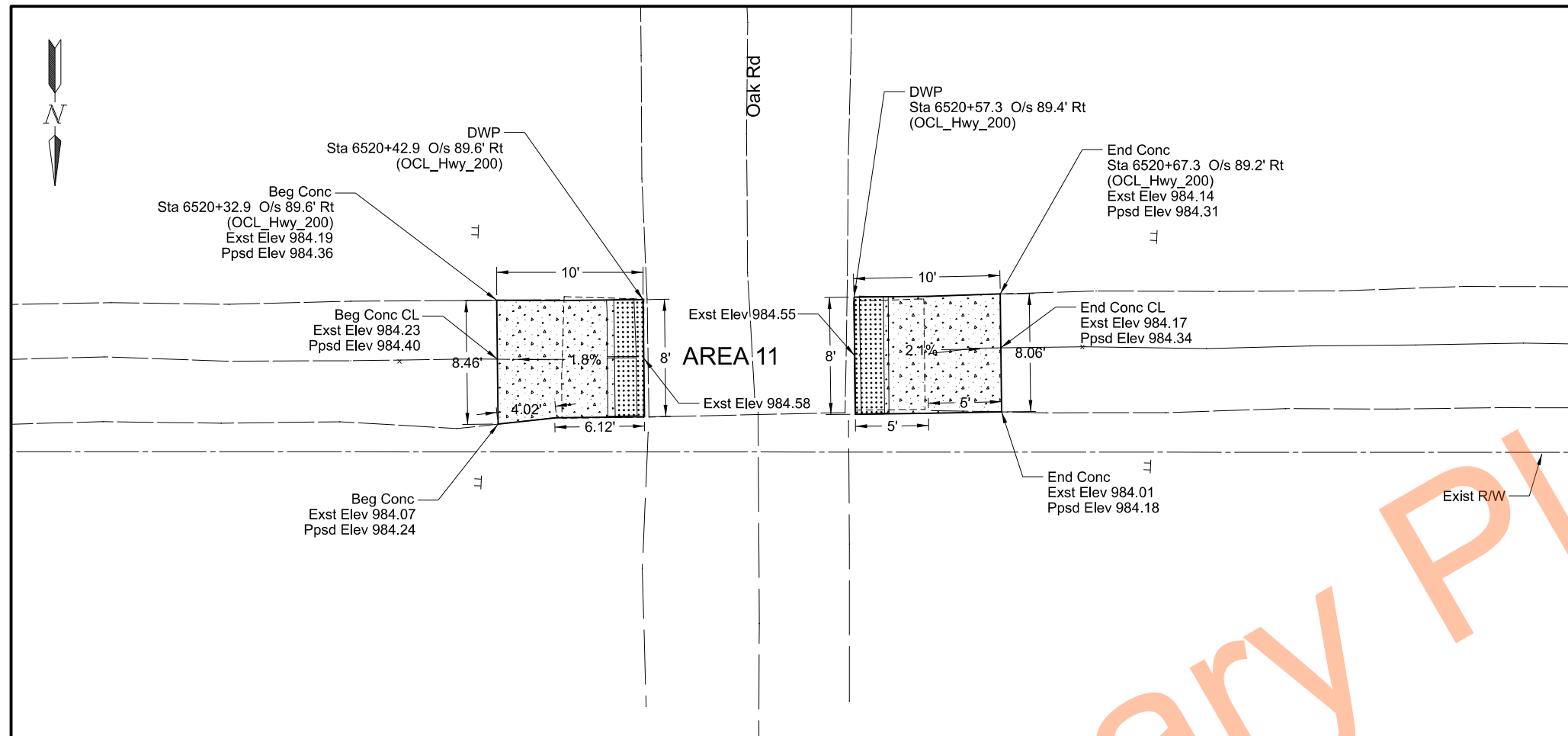
REGISTERED PROFESSIONAL ENGINEER

DUSTIN R. FANKULIK

PE-27243

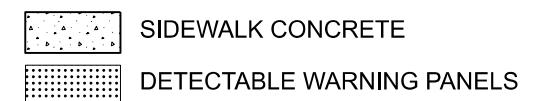
DATE 03/31/2026

NORTH DAKOTA



SPEC	CODE	BID ITEM	QTY	UNIT
750	0100	SIDEWALK CONCRETE		
		Sta 6520+32.89 Rt to Sta 6520+42.98 Rt	9	SY
		Sta 6520+57.31 Rt to Sta 6520+67.30 Rt	9	SY
750	2115	DETECTABLE WARNING PANELS		
		Sta 6520+40.89 Rt to Sta 6520+42.98 Rt	16	SF
		Sta 6520+57.31 Rt to Sta 6520+59.40 Rt	16	SF

Legend



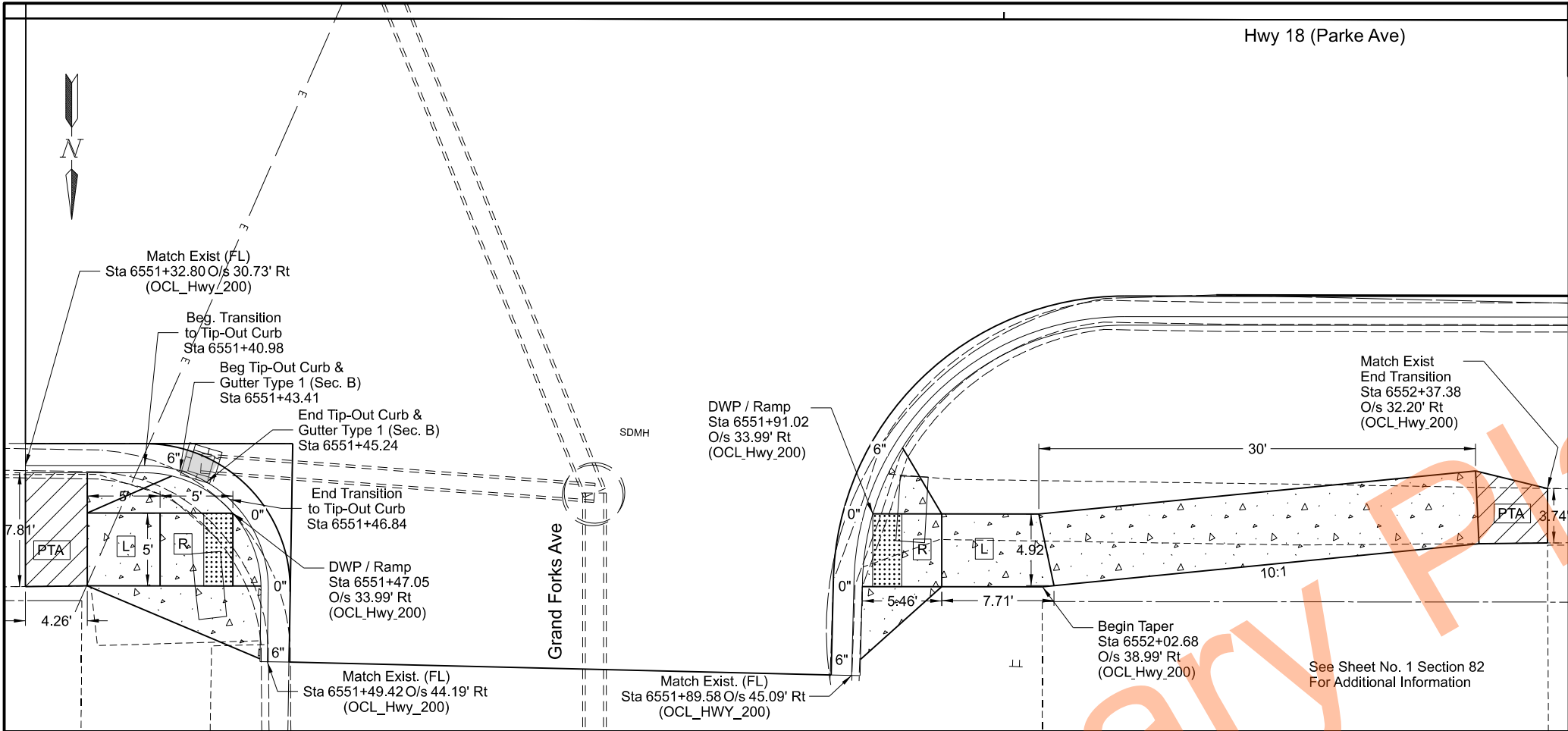
Paving Layouts

ADA Ramps - Shared Use Path

HWY 18, Jct 200 W Through Portland

Mill & Overlay, Reconstruction

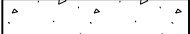




STATE		PROJECT NO.	SECTION NO.	SHEET NO.
ND		NH-8-018(111)121	90	7

SPEC	CODE	BID ITEM	QTY	UNIT
748	0140	CURB & GUTTER-TYPE 1		
See Sheet 60-1 for Curb & Gutter Quantities for This Area				
750	0100	SIDEWALK CONCRETE		
		Sta 6551+32.80 Rt to Sta 6551+48.92 Rt	14	SY
		Sta 6551+90.19 Rt to Sta 6552+37.38 Rt	29	SY
750	2115	DETECTABLE WARNING PANELS		
		Sta 6551+45.05 Rt to Sta 6551+47.05 Rt	10	SF
		Sta 6551+91.02 Rt to Sta 6551+93.02 Rt	10	SF

Legend

-  SIDEWALK CONCRETE
-  DETECTABLE WARNING PANELS
-  RAMP
-  LANDING
-  PEDESTRIAN ACCESS TRANSITION AREA
-  TIP-OUT CURB & GUTTER TYPE 1 (Sec. B)

Paving Layouts

ADA Ramps - Sidewalks

HWY 18, Jct 200 W Through Portland

Mill & Overlay, Reconstruction

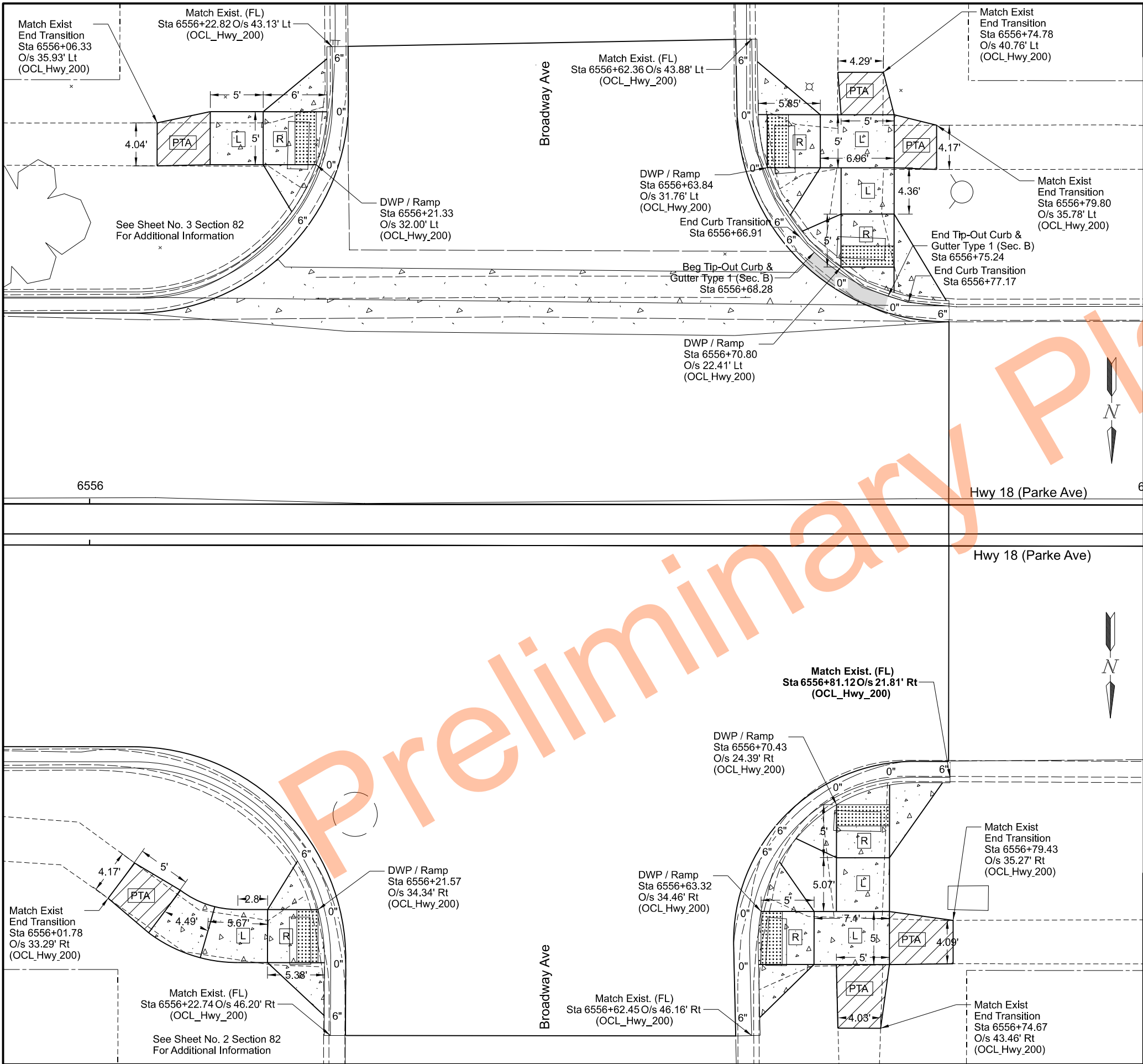
REGISTERED PROFESSIONAL ENGINEER

DUSTIN R. FANFULK

PE-27243

DATE 03/31/2026

NORTH DAKOTA



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	90	8

SPEC

CODE

BID ITEM

QTY

UNIT

748

0140

CURB & GUTTER-TYPE 1

See Sheet 60-1 for Curb & Gutter Quantities for This Area

750

0100

SIDEWALK CONCRETE

Sta 6556+06.33 Lt to Sta 6556+22.33 Lt

11

SY

Sta 6556+62.90 Lt to Sta 6556+80.73 Lt

23

SY

Sta 6556+01.78 Rt to Sta 6556+22.17 Rt

14

SY

Sta 6556+63.22 Rt to Sta 6556+80.42 Rt

23

SY

750

2115

DETECTABLE WARNING PANELS

Sta 6556+19.33 Lt to Sta 6556+21.33 Lt

10

SF

Sta 6556+63.84 Lt to Sta 6556+65.84 Lt

10

SF

Sta 6556+70.80 Lt to Sta 6556+75.80 Lt

10

SF

Sta 6556+19.57 Rt to Sta 6556+21.57 Rt

10

SF

Sta 6556+63.32 Rt to Sta 6556+65.32 Rt

10

SF

Sta 6556+70.43 Rt to Sta 6556+75.43 Rt

10

SF

SIDEWALK CONCRETE

DETECTABLE WARNING PANELS

R

RAMP

L

LANDING

PTA

PEDESTRIAN ACCESS TRANSITION AREA

TIP-OUT CURB & GUTTER TYPE 1 (Sec. B)

Paving Layouts

ADA Ramps - Sidewalks

HWY 18, Jct 200 W Through Portland

Mill & Overlay, Reconstruction

REGISTERED PROFESSIONAL ENGINEER

DUSTIN R. FANFULIK

PE-27243

DATE 03/31/2026

NORTH DAKOTA

R

L

PTA

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NH-8-018(111)121	100	1

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	2	28	56
G20-1b-60	60"x24"	NO WORK IN PROGRESS (Sign and installation only)		18	
G20-2-48	48"x24"	END ROAD WORK	5	26	130
G20-4-36	36"x18"	PILOT CAR FOLLOW ME (Mounted to back of pilot car)	1	18	18
G20-4b-36	36"x30"	WAIT FOR PILOT CAR	2	18	36
G20-50a-72	72"x36"	ROAD WORK NEXT ____ MILES RT & LT ARROWS	1	43	43
G20-52a-72	72"x24"	ROAD WORK NEXT ____ MILES RT or LT ARROW	3	36	108
G20-55-96	96"x48"	SPEED LIMIT ENFORCED - MINIMUM FEE \$150 WHEN WORKERS PRESENT	4	59	236
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	9	15	135
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		32	
R1-2-60	60"x60"	YIELD		29	
R2-1-36	36"x48"	SPEED LIMIT ____ (Portable only)		30	
R2-1-48	48"x60"	SPEED LIMIT ____	2	39	78
R2-1aP-24	24"x18"	MINIMUM FEE \$150 (Mounted on Speed Limit post)	2	10	20
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	
R9-9-24	24"x12"	SIDEWALK CLOSED (Mounted on barricade)	16	3	48
R10-6-24	24"x36"	STOP HERE ON RED	4	16	64
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)	3	15	45
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	4	35	140
W3-4-48	48"x48"	BE PREPARED TO STOP		35	
W3-5-48	48"x48"	SPEED REDUCTION AHEAD	2	35	70
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)	2	10	20
W20-1-48	48"x48"	ROAD WORK AHEAD or ____ FT or ____ MILE		35	
W20-2-48	48"x48"	DETOUR AHEAD or ____ FT or ____ MILE	3	35	105
W20-3-48	48"x48"	ROAD or STREET CLOSED AHEAD or ____ FT or ____ MILE	3	35	105
W20-4-48	48"x48"	ONE LANE ROAD AHEAD or ____ FT or ____ MILE	4	35	140
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	

[illegible][illegible]

SPEC & CODE			
704-1000	TRAFFIC CONTROL SIGNS	TOTAL UNITS	1677

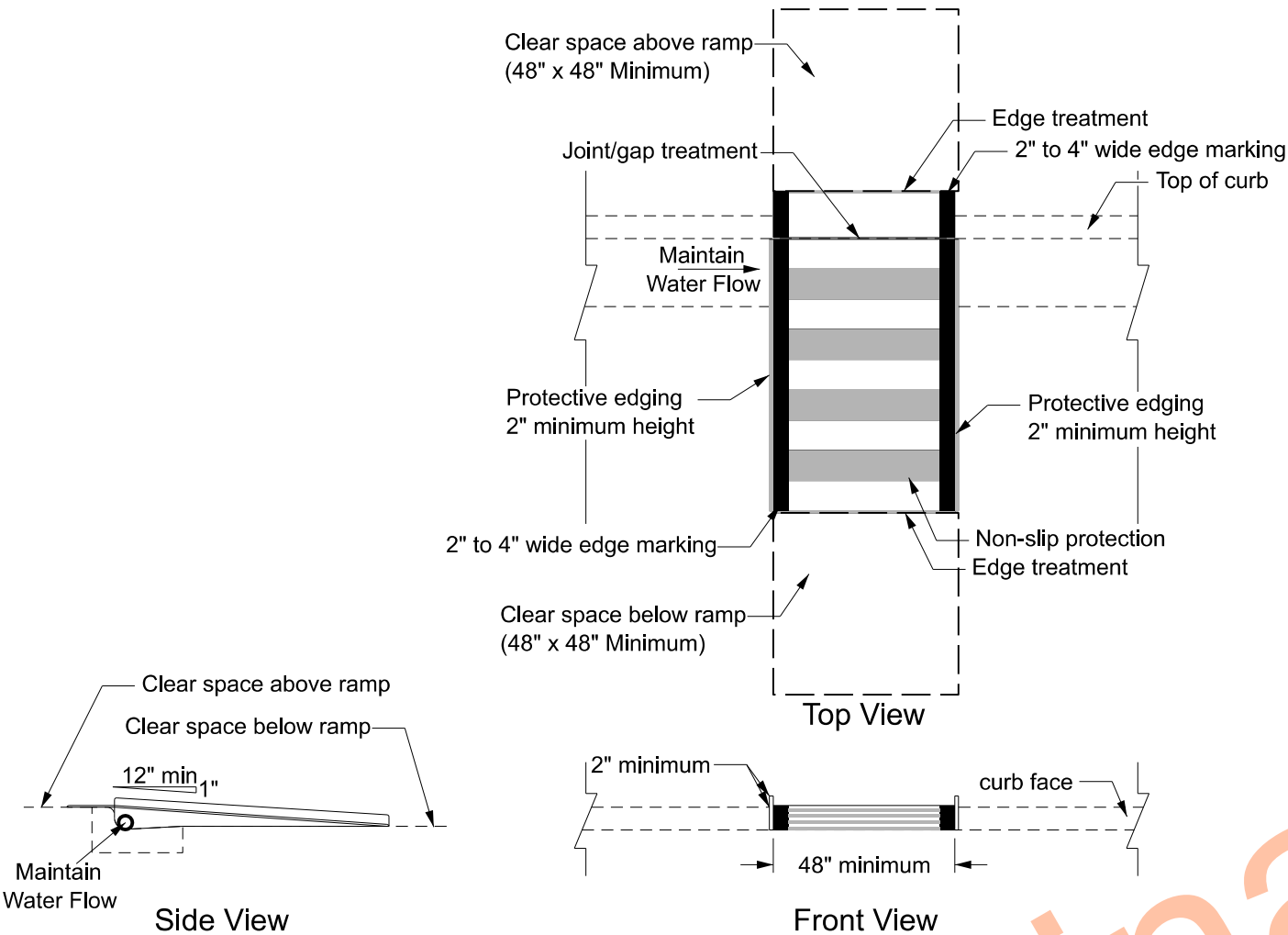
SPEC & CODE	DESCRIPTION	UNIT	QUANTITY
704-0100	FLAGGING	MHR	480
704-1018	LANE CLOSURE-SIGNAL CONTROL/FLAGGING CONTROL	EACH	4
704-1048	PORTABLE RUMBLE STRIPS	EACH	
704-1050	TYPE I BARRICADES	EACH	
704-1052	TYPE III BARRICADES	EACH	32
704-1060	DELINEATOR DRUMS	EACH	20
704-1065	TRAFFIC CONES	EACH	
704-1067	TUBULAR MARKERS	EACH	
704-1070	DELINEATOR	EACH	
704-1072	FLEXIBLE DELINEATORS	EACH	
704-1080	STACKABLE VERTICAL PANELS	EACH	
704-1081	VERTICAL PANELS - BACK TO BACK	EACH	
704-1085	SEQUENCING ARROW PANEL - TYPE A	EACH	
704-1086	SEQUENCING ARROW PANEL - TYPE B	EACH	
704-1087	SEQUENCING ARROW PANEL - TYPE C	EACH	
704-1185	PILOT CAR	HR	240
704-1500	OBLITERATION OF PVMT MK	SF	
704-2108	TEMPORARY CURB RAMP	EACH	7
704-3501	PORTABLE PRECAST CONCRETE MED BARRIER	LF	690
704-3510	PRECAST CONCRETE MED BARRIER - STATE FURNISHED	EACH	
762-0200	RAISED PAVEMENT MARKERS	EACH	
762-0420	SHORT TERM 4IN LINE - TYPE R	LF	
762-0426	SHORT TERM 24IN LINE-TYPE R	LF	56
762-0430	SHORT TERM 4IN LINE - TYPE NR	LF	
762-0432	SHORT TERM 6IN LINE-TYPE NR	LF	15602

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/>

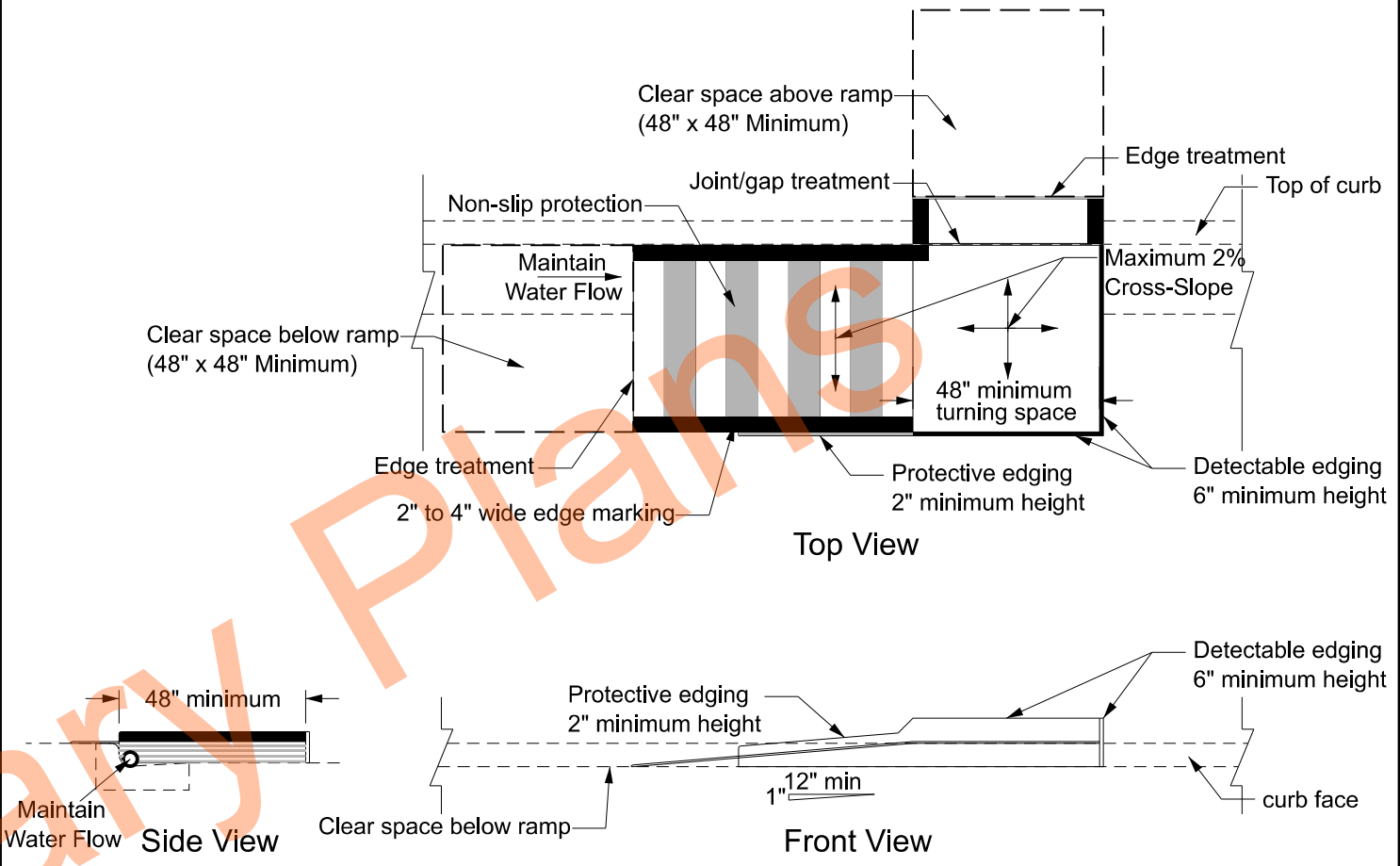


Traffic Control Devices List

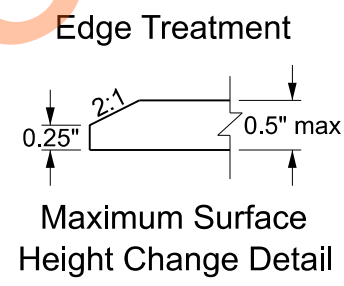
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	100	2



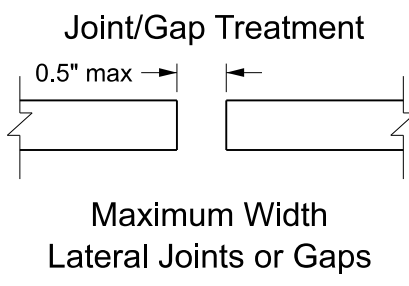
Temporary Perpendicular Curb Ramp



Temporary Parallel Curb Ramp



Maximum Surface Height Change Detail



Maximum Width Lateral Joints or Gaps

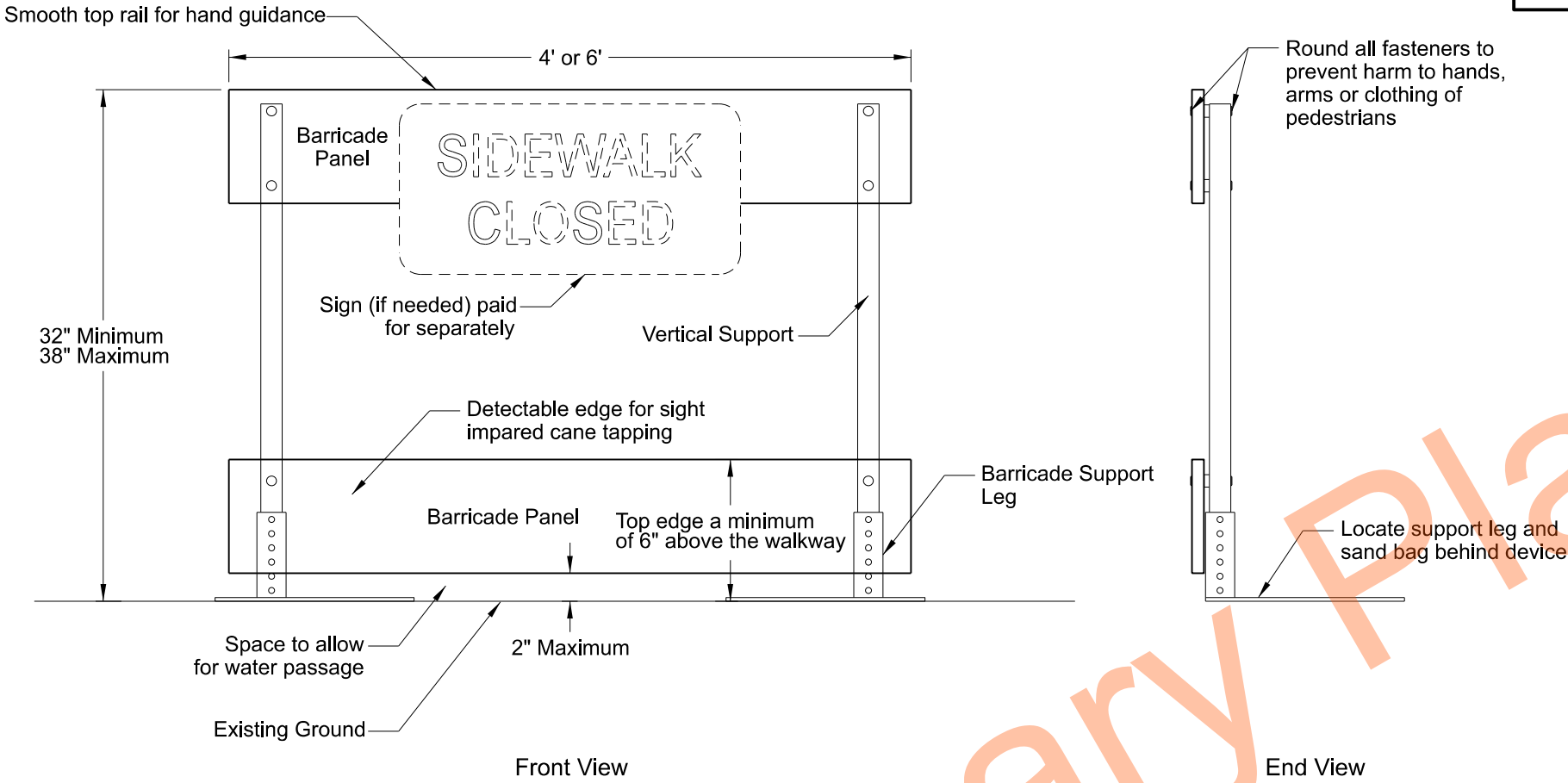


Temporary Pedestrian Curb Ramp Details

HWY 18, Jct 200 W Through Portland

Portland, North Dakota

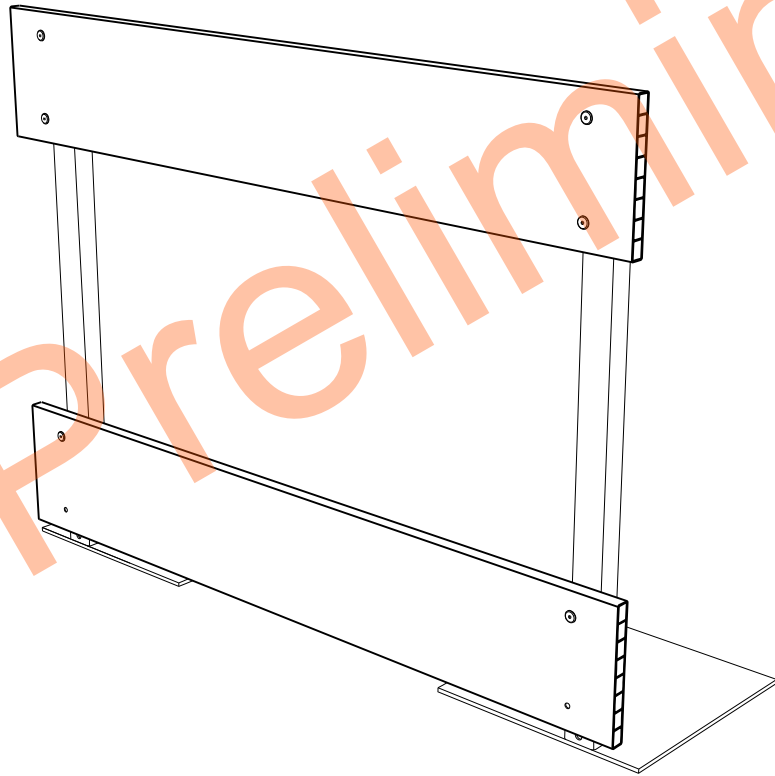
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NH-8-018(111)121	100	3



NOTES:

Sidewalk Barricades

1. Provide self standing sidewalk barricade with no supports extending into the pedestrians path.
2. Use orange or orange and white diagonal striped barricade panels contrasting with the walkway surface.
3. Provide ADA compliant and NCHRP 350 or Mash Test Level 3 (TL3) approved sidewalk barricades.
4. Include all costs to furnish, maintain and remove sidewalk barricades in the price bid for "Sidewalk Barricade".



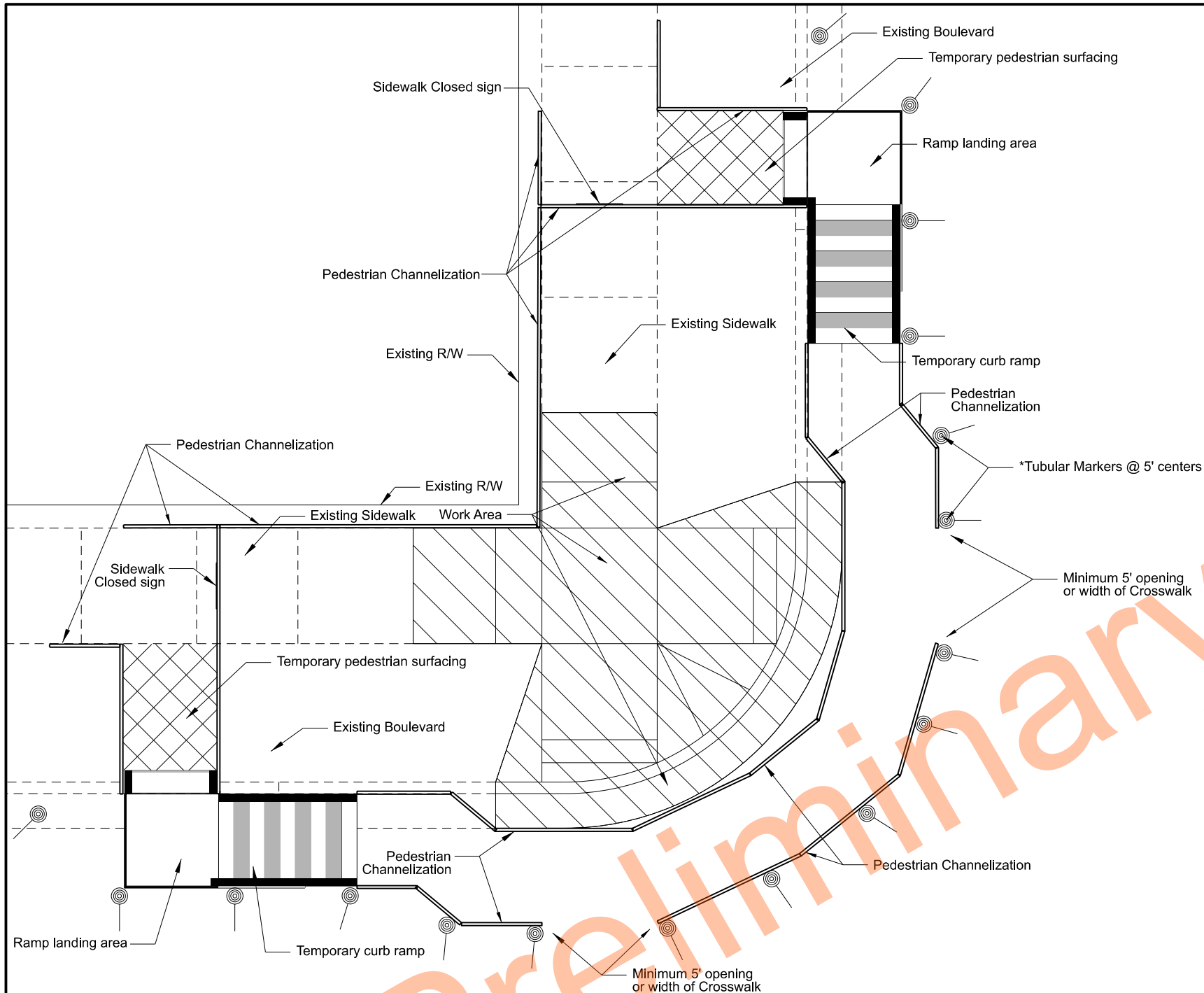
Perspective View



Sidewalk Barricade

HWY 18, Jct 200 W Through Portland

Portland, North Dakota



*NOTE: Eliminate tubular markers if pedestrian channelization is retro-reflective

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	100	4



Temporary Pedestrian Access Route

HWY 18, Jct 200 W Through Portland

Portland, ND

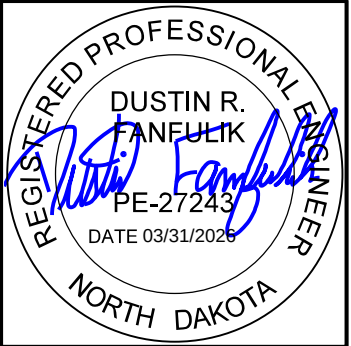


	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	100	5

Workzone Traffic Control

Roadway Construction

Mayville, North Dakota



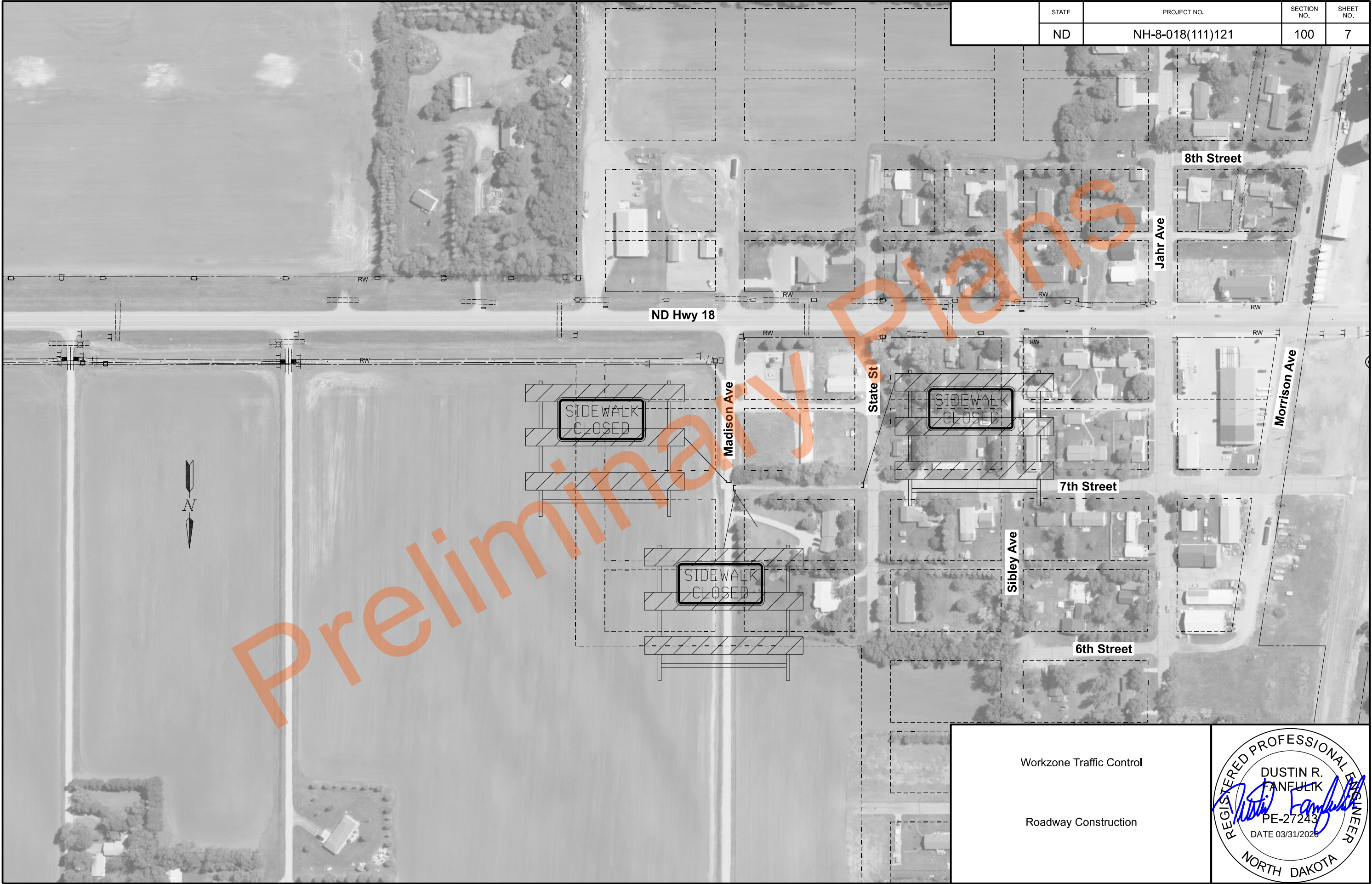


	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	100	6

Workzone Traffic Control

Roadway Construction

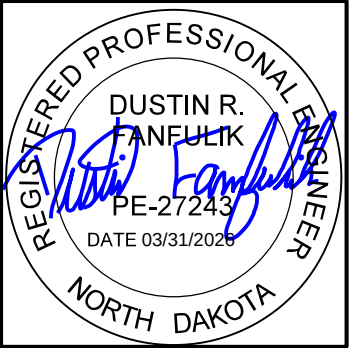


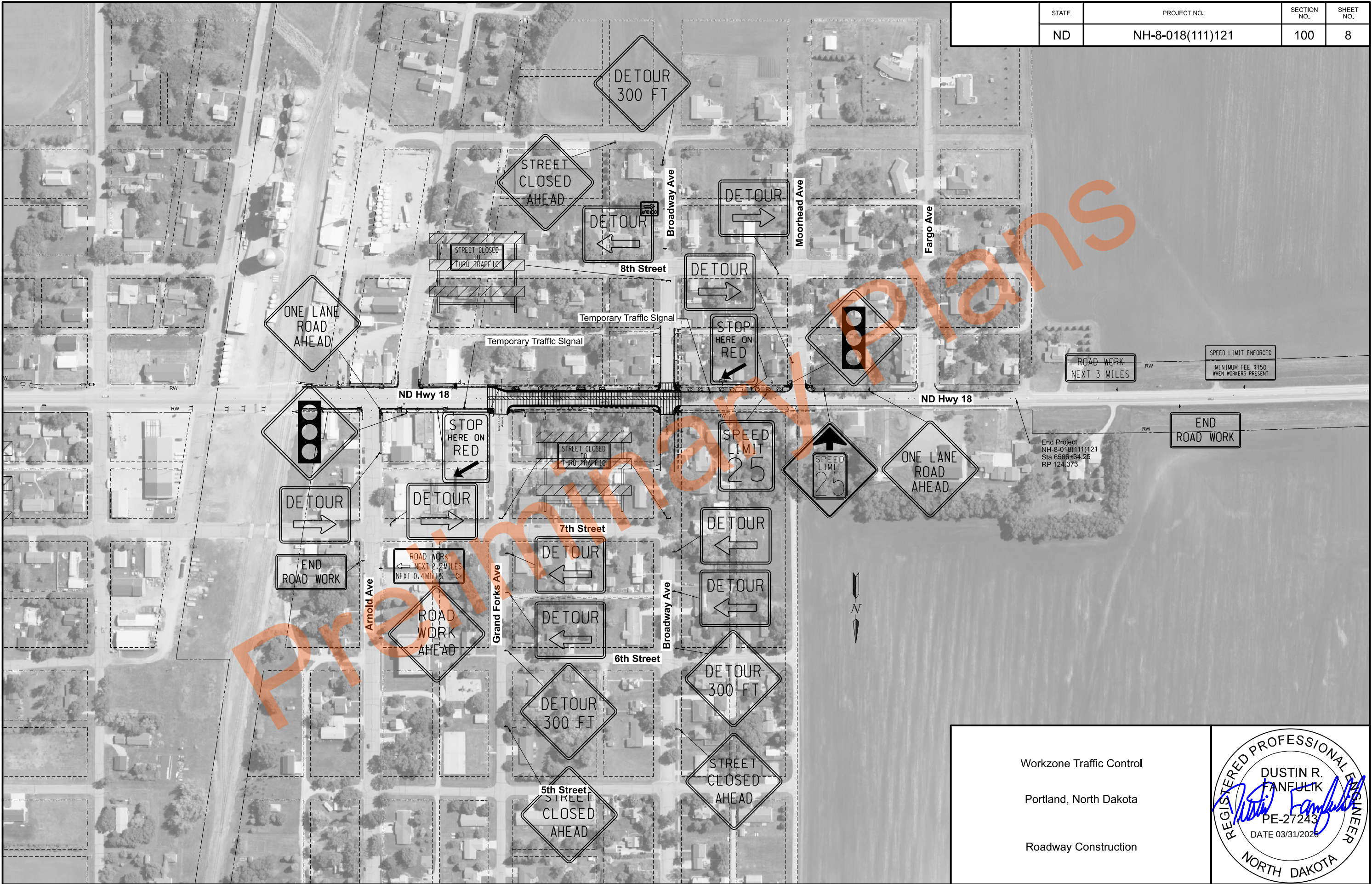


	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	100	7

Workzone Traffic Control

Roadway Construction



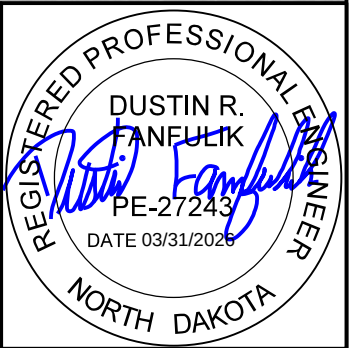


STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NH-8-018(111)121	100	8

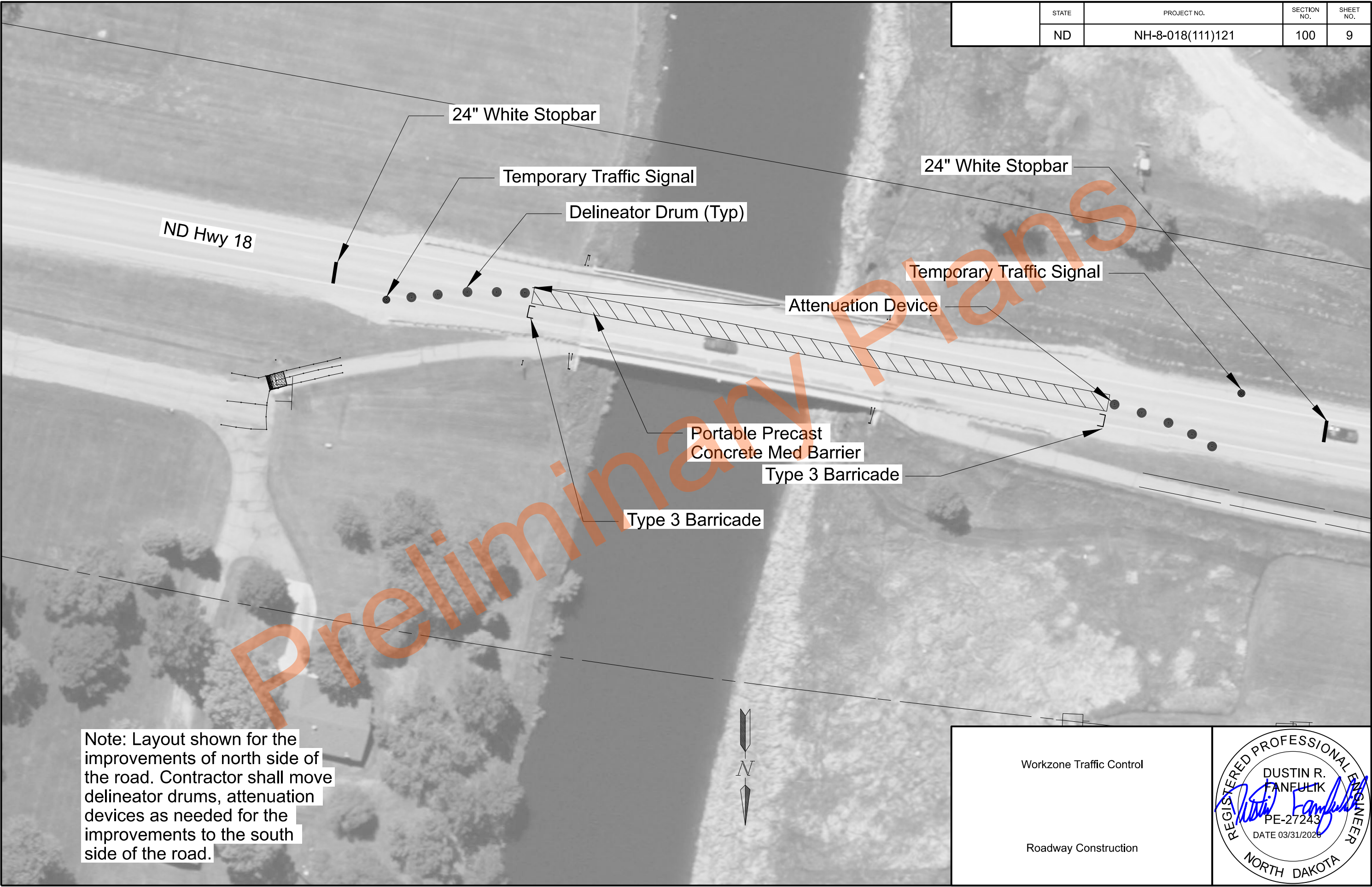
Workzone Traffic Control

Portland, North Dakota

Roadway Construction



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	100	9



Note: Layout shown for the improvements of north side of the road. Contractor shall move delineator drums, attenuation devices as needed for the improvements to the south side of the road.

Workzone Traffic Control

Roadway Construction

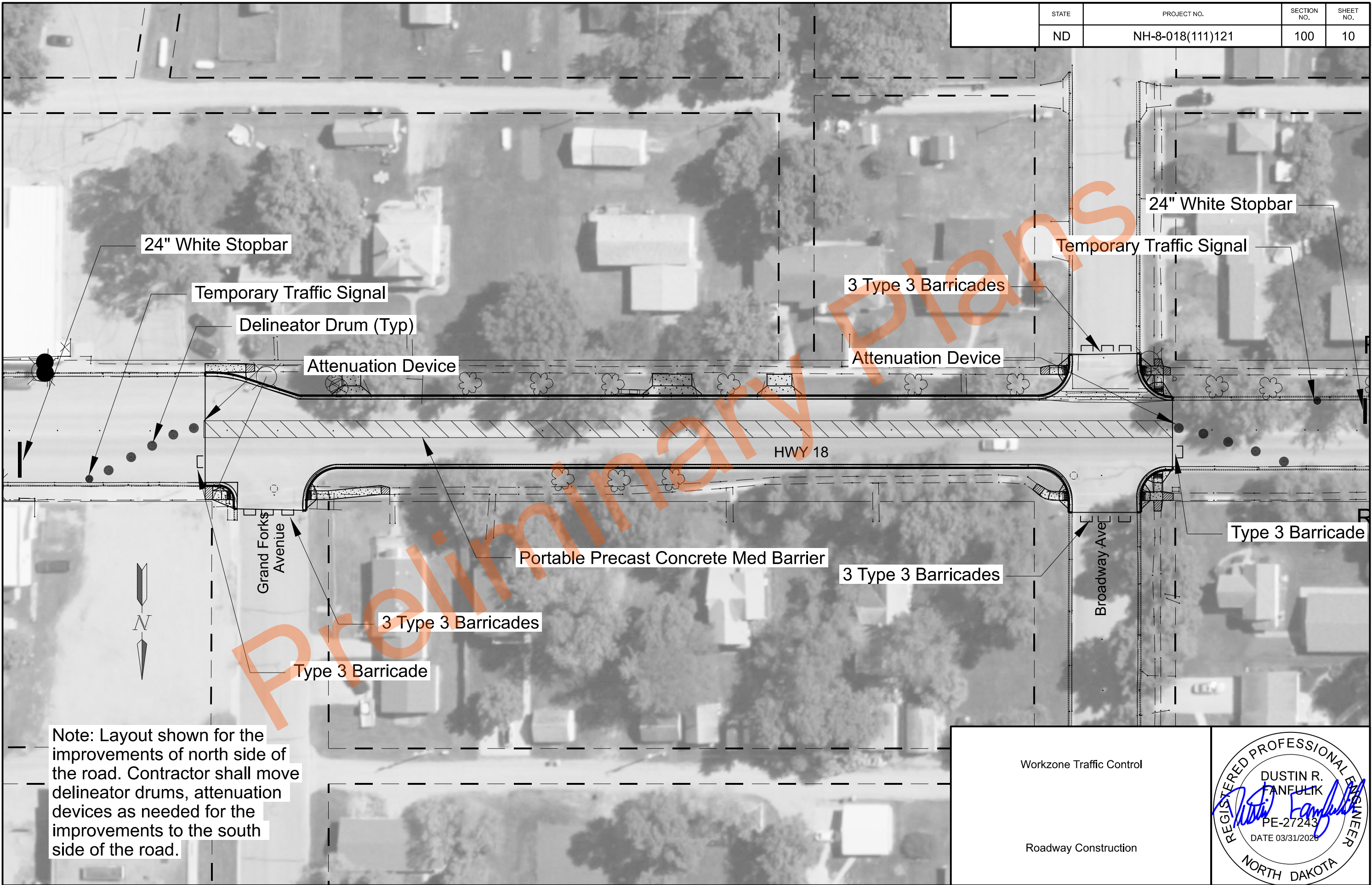
REGISTERED PROFESSIONAL ENGINEER

DUSTIN R. FANFULIK

PE-27243

DATE 03/31/2026

NORTH DAKOTA



STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NH-8-018(111)121	100	10

Note: Layout shown for the improvements of north side of the road. Contractor shall move delineator drums, attenuation devices as needed for the improvements to the south side of the road.

Workzone Traffic Control

Roadway Construction

REGISTERED PROFESSIONAL ENGINEER

DUSTIN R. FANFELIK

PE-27243

DATE 03/31/2026

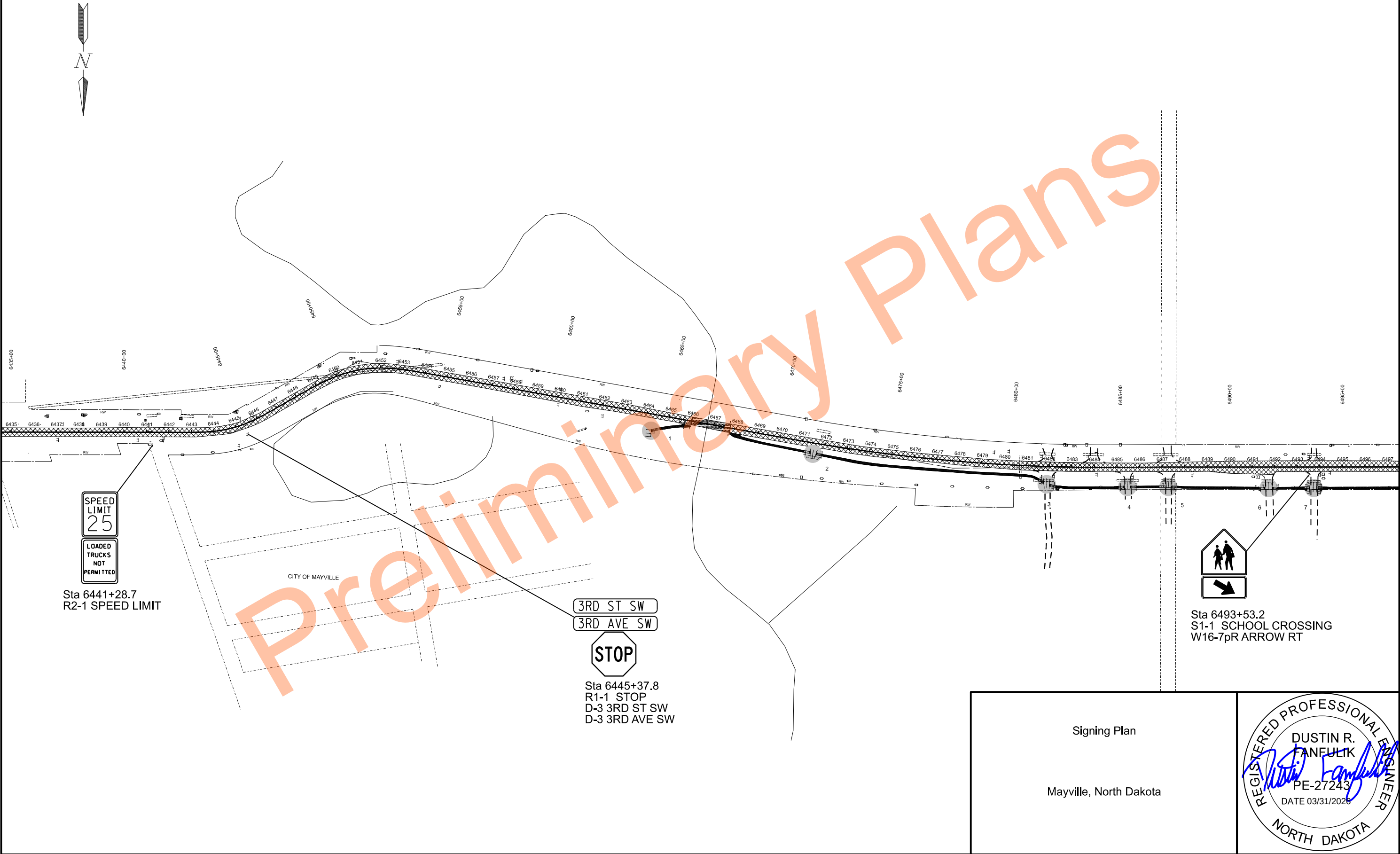
NORTH DAKOTA

																		STATE	PROJECT NO.			SECTION NO.	SHEET NO.	
																		N.D.	NH-8-018(111)121			110	1	
Station / RP	Sign No.	Assembly No.	Flat Sheet For Signs		Sign Support Length				Vert Clearance	Support Size	Max Post Len	Sleeve Length				Sleeve Size	Anchor EA	Anchor LF	Anchor Size	Reset Sign Panel EA	Reset Sign Support EA	Break-Away EA	Comments	
			IV SF	XI SF	1st LF	2nd LF	3rd LF	4th LF	FT		LF	1st LF	2nd LF	3rd LF	4th LF									
6441+28.7 Rt		46			11.2				7.0	2.5 x 2.5 12 ga	13.1						1	4	3 x 3 7 ga	2				
6445+37.8 Rt		1			9.7				7.0	2 x 2 12 ga	10.5						1	4	2.25 x 2.25 12 ga	3				
6493+53.2 Rt					9.7				7.0	2.25 x 2.25 12 ga	11.8	2.5				2.5 x 2.5 12 ga	1	4	3 x 3 7 ga	2		1		
6530+81.7 Rt		1			9.7				7.0	2 x 2 12 ga	10.5						1	4	2.25 x 2.25 12 ga	1				
6547+74.8 Rt																				3		Mount on Light Standard		
6548+89.3 Rt																				3		Mount on Light Standard		
Sub Total			0.0	0.0		Total	40.3									Total	16.0			14	0	1		
Grand Total			0.0	0.0		Total	40.3									Total	16	0		14	0	1		
Preliminary Plans																								
																							Sign Summary Perforated Tube	

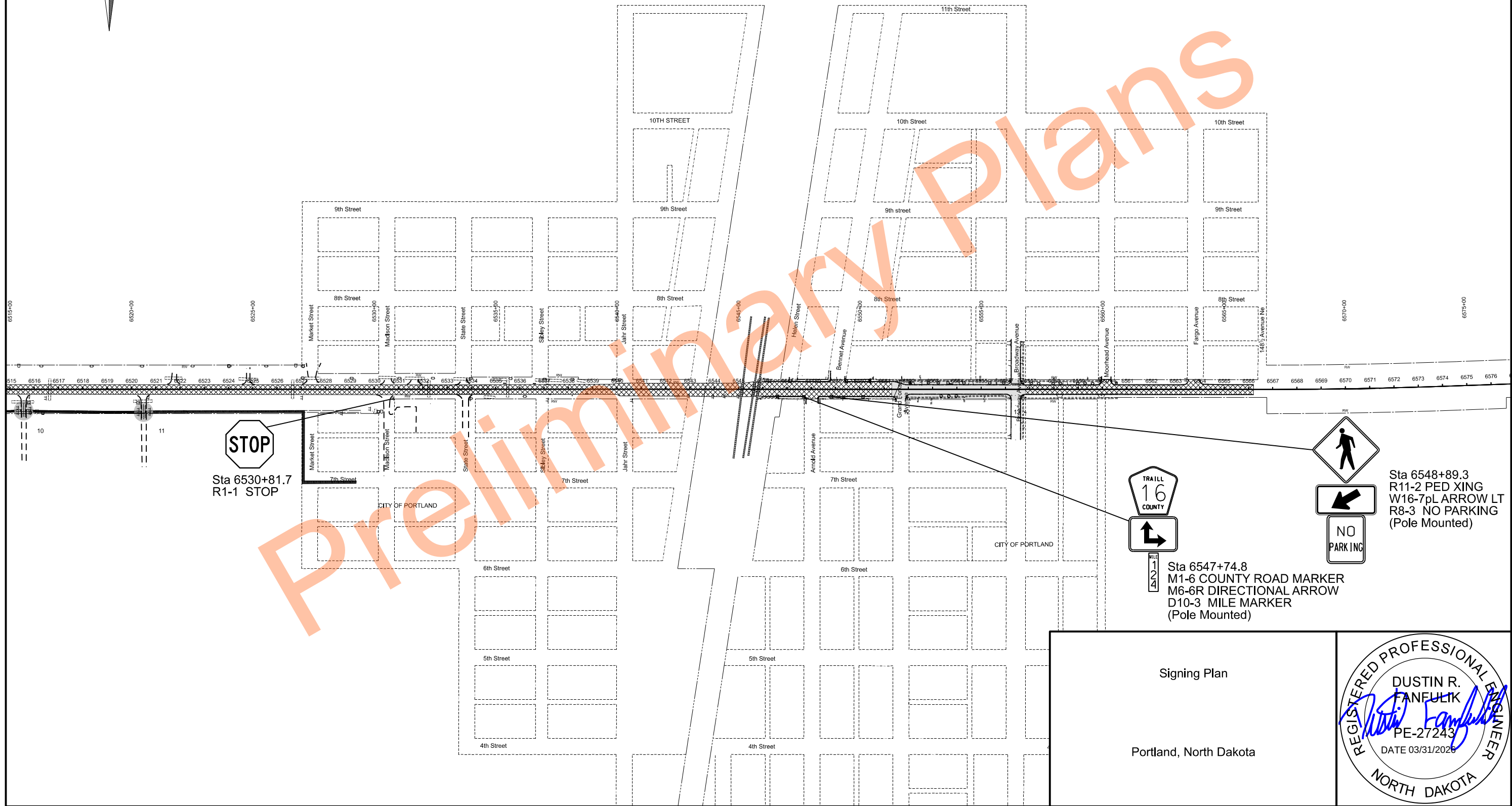
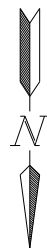
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Page 1 of 1

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	110	2



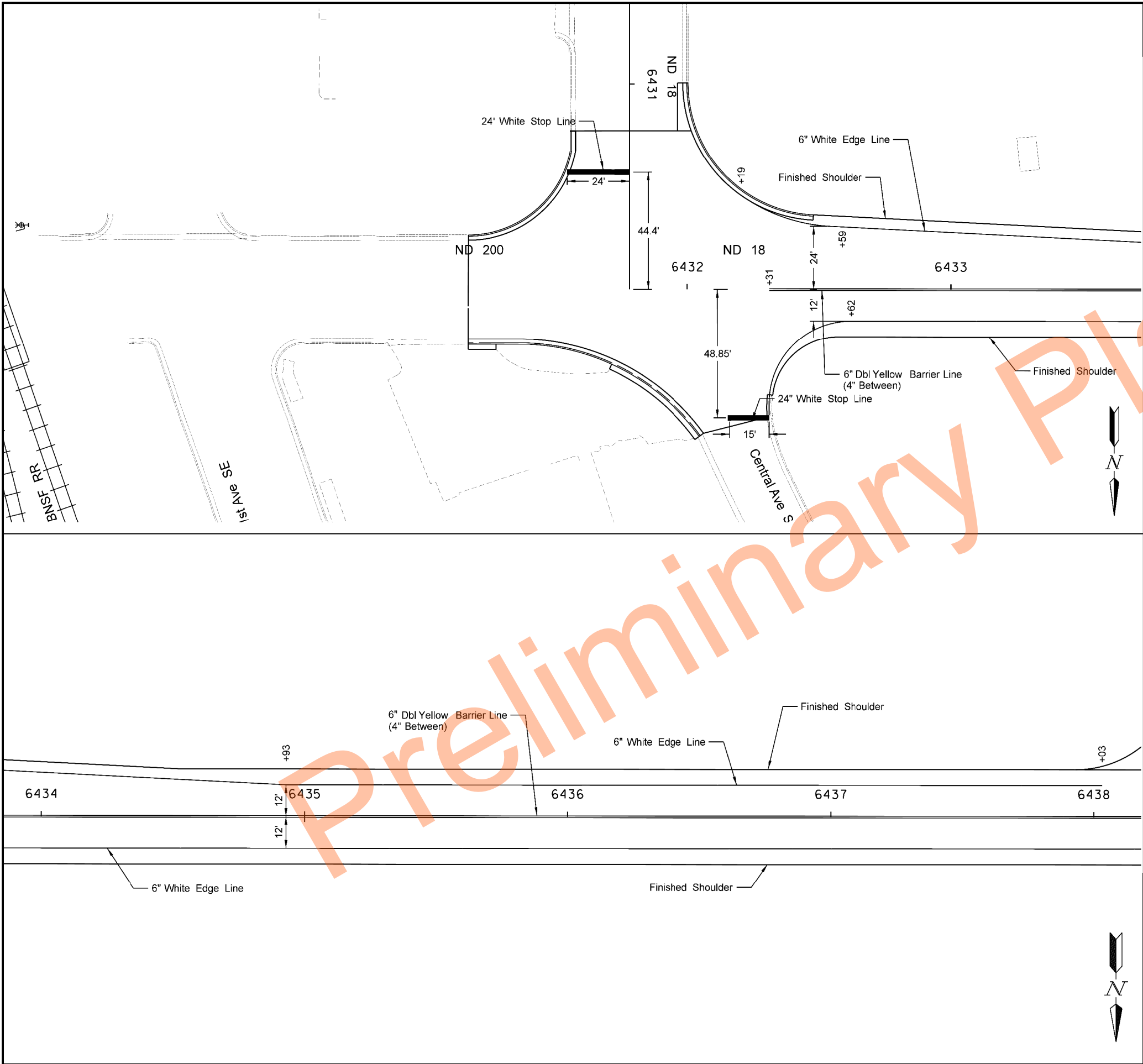
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	110	3



Signing Plan

Portland, North Dakota





	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	120	1

SPEC	CODE	BID ITEM	QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE		
		Double Yellow Barrier Line		
		Sta 6432+31 to Sta 6434+00	338	LF
		White Edge Line		
		Sta 6432+19 to Sta 6434+00 LT	183	LF
		Sta 6432+31 to Sta 6434+00 RT	192	LF
762	0117	EPOXY PVMT MK 24IN LINE		
		Sta 6431+34 RT	21	LF
		Sta 6432+31 to Sta 6432+31 49'RT	15	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6432+31 to Sta 6434+00	338	LF

SPEC	CODE	BID ITEM	QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE		
		Double Yellow Barrier Line		
		Sta 6434+00 to Sta 6438+00	800	LF
		White Edge Line		
		Sta 6434+00 to Sta 6438+00 LT	400	LF
		Sta 6434+00 to Sta 6438+00 RT	400	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6434+00 to Sta 6438+00	800	LF

Pavement Marking

Sta 6431+77.92 to 6438+00

HWY 18, Jct 200 W Through Portland
Mill & Overlay, Reconstruction, Bikeath Overlay

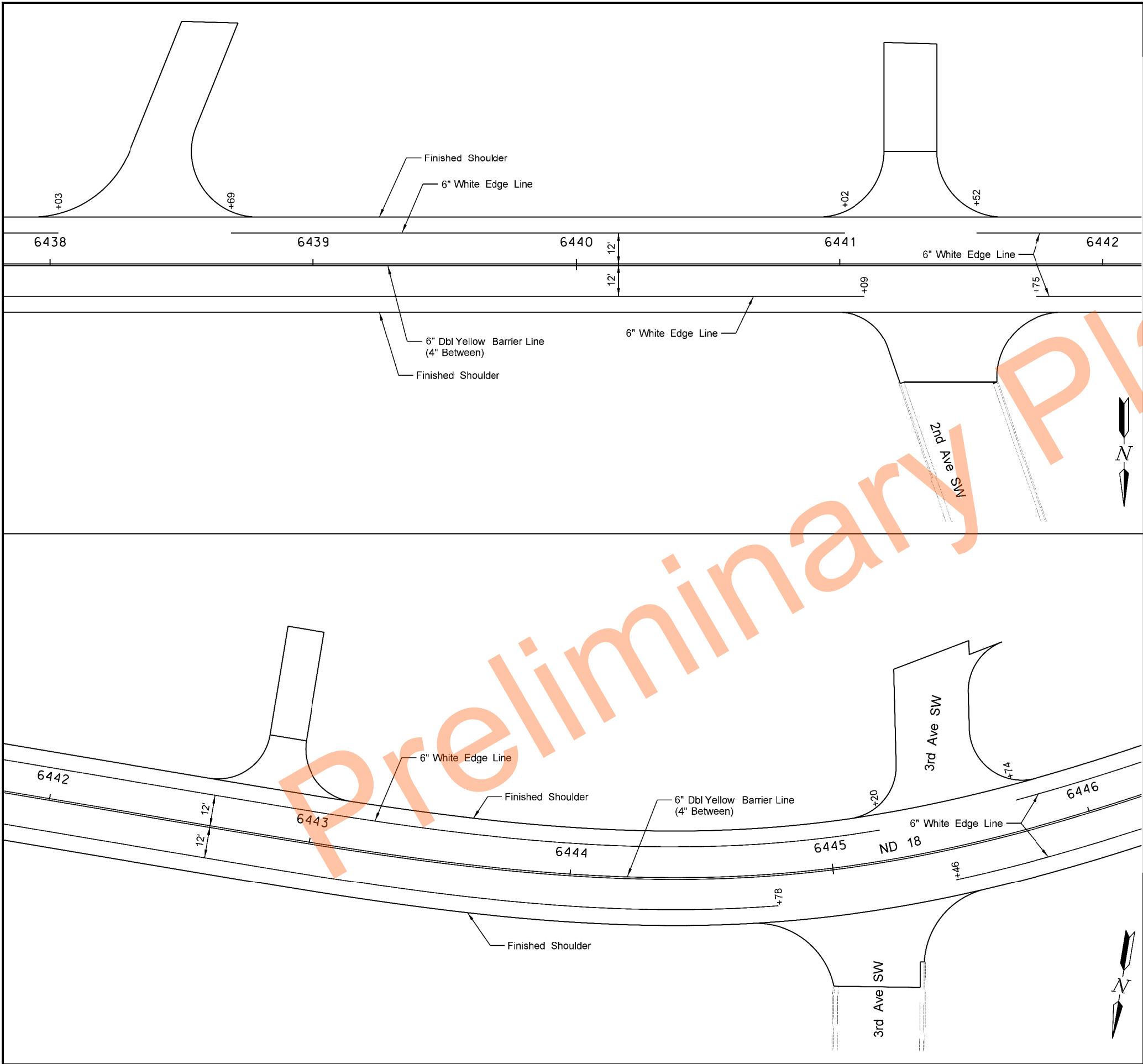
REGISTERED PROFESSIONAL ENGINEER

DUSTIN R. FANFULIK

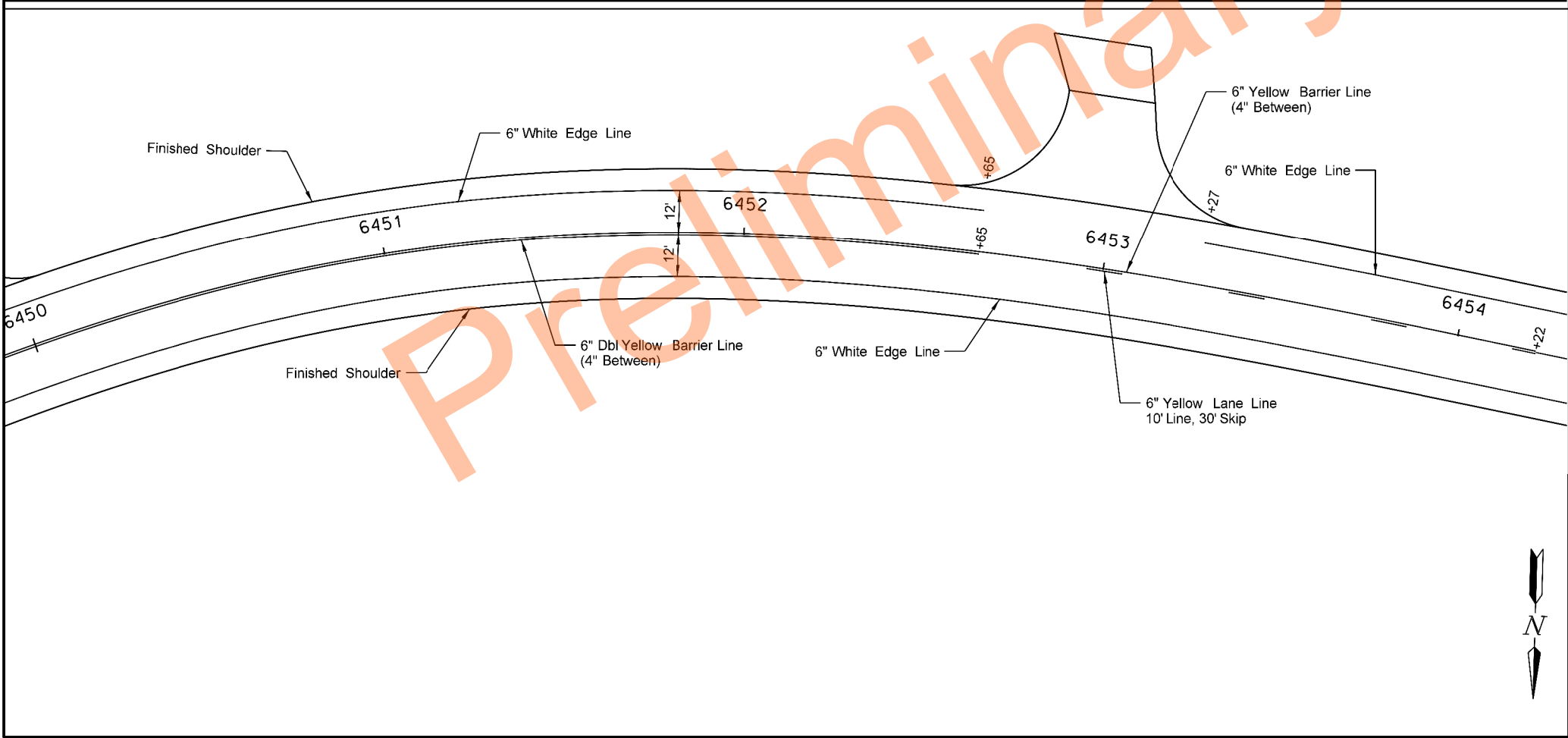
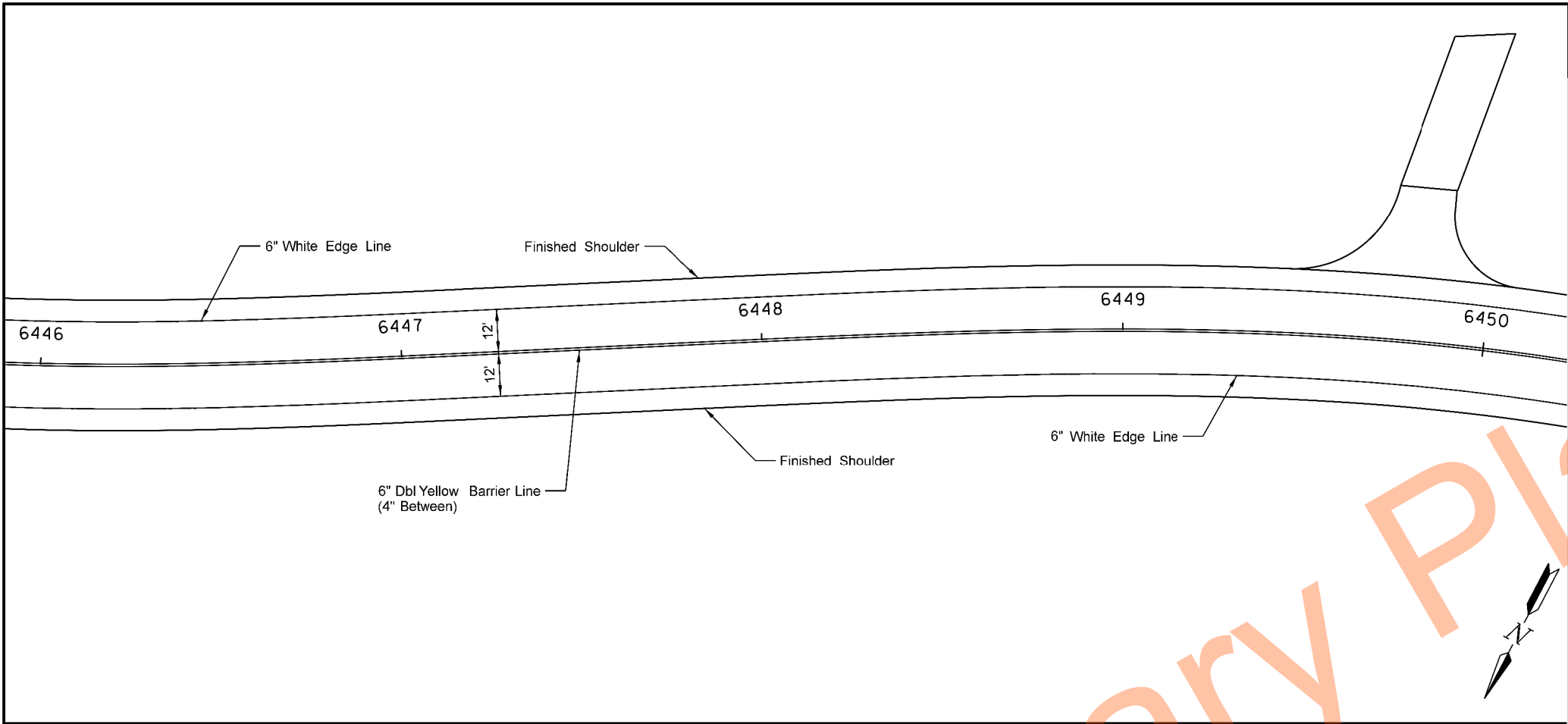
PE-27243

DATE 03/31/2026

NORTH DAKOTA



		STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	NH-8-018(111)121	120	2
SPEC	CODE	BID ITEM		QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE			
		Double Yellow Barrier Line			
		Sta 6438+00 to Sta 6442+00		800	LF
		White Edge Line			
		Sta 6438+00 to Sta 6438+03 LT		3	LF
		Sta 6438+69 to Sta 6441+02 LT		233	LF
		Sta 6441+52 to Sta 6442+00 RT		48	LF
		Sta 6438+00 to Sta 6441+09 RT		209	LF
		Sta 6441+75 to Sta 6442+00 RT		25	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR			
		Sta 6438+00 to Sta 6442+00		800	LF
SPEC	CODE	BID ITEM		QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE			
		Double Yellow Barrier Line			
		Sta 6442+00 to Sta 6446+00		800	LF
		White Edge Line			
		Sta 6442+00 to Sta 6445+20 LT		320	LF
		Sta 6445+74 to Sta 6446+00 LT		26	LF
		Sta 6442+00 to Sta 6444+78 RT		278	LF
		Sta 6445+46 to Sta 6446+00 RT		54	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR			
		Sta 6442+00 to Sta 6446+00		800	LF
Pavement Marking			REGISTERED PROFESSIONAL ENGINEER DUSTIN R. FANFULIK PE-27243 DATE 03/31/2026 NORTH DAKOTA		
Sta 6438+00 to 6446+00					
HWY 18, Jct 200 W Through Portland					
Mill & Overlay, Reconstruction, Bikeath Overlay					

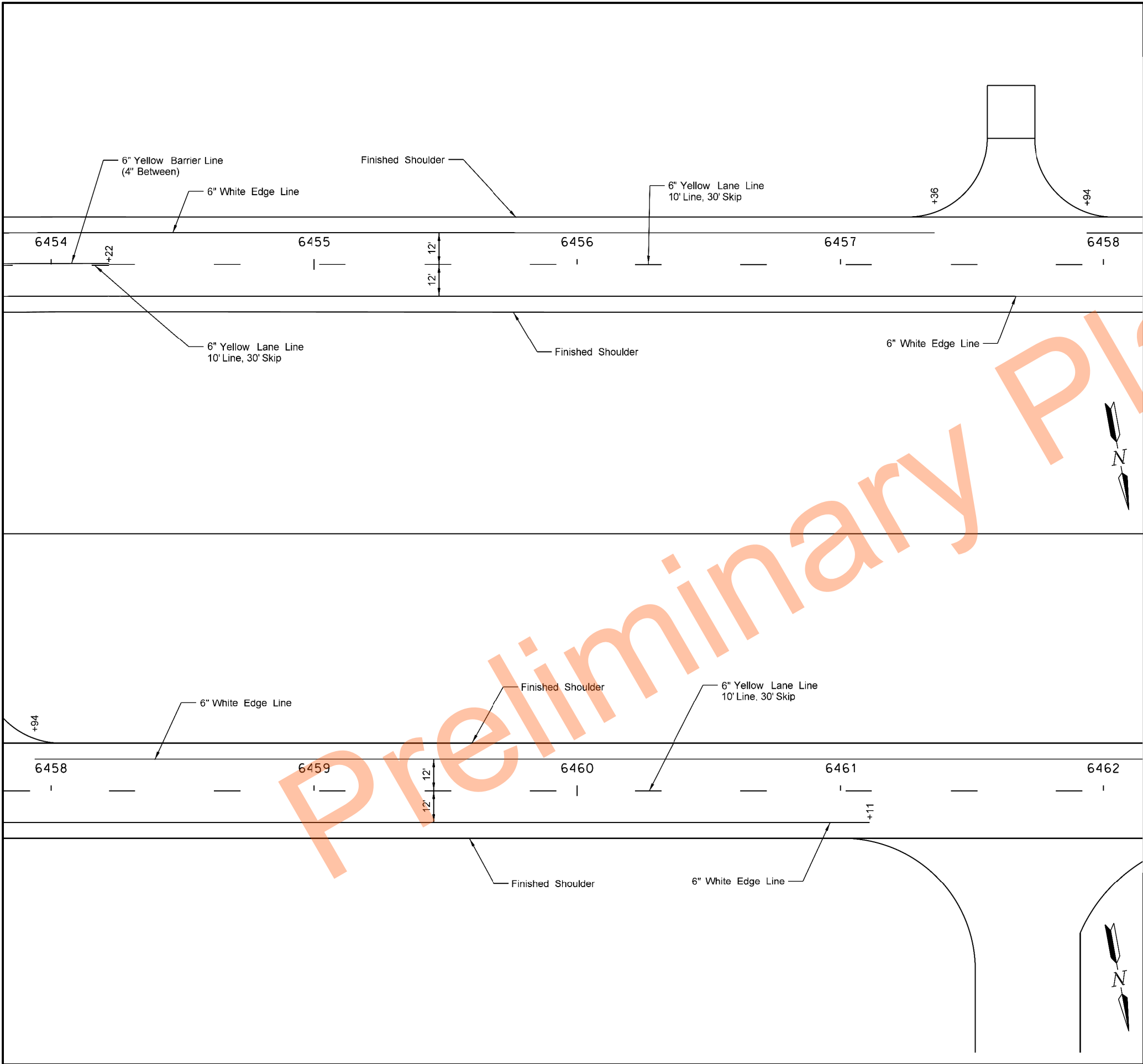


		STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	NH-8-018(111)121	120	3

SPEC	CODE	BID ITEM	QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE		
		Double Yellow Barrier Line		
		Sta 6446+00 to Sta 6450+00	800	LF
		White Edge Line		
		Sta 6446+00 to Sta 6450+00 LT	400	LF
		Sta 6446+00 to Sta 6450+00 RT	400	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6446+00 to Sta 6450+00	800	LF

SPEC	CODE	BID ITEM	QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE		
		Double Yellow Barrier Line		
		Sta 6450+00 to Sta 6452+65	543	LF
		Single Yellow Barrier Line		
		Sta 6452+65 to Sta 6454+00	135	LF
		Yellow Skip Stripe		
		Sta 6452+65 to Sta 6454+00	34	LF
		White Edge Line		
		Sta 6450+00 to Sta 6452+65 LT	265	LF
		Sta 6453+27 to Sta 6454+00 LT	73	LF
		Sta 6450+00 to Sta 6454+00 RT	400	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6450+00 to Sta 6454+00	712	LF

Pavement Marking	REGISTERED PROFESSIONAL ENGINEER DUSTIN R. FANFULIK PE-27243 DATE 03/31/2026 NORTH DAKOTA
Sta 6446+00 to 6454+00	
HWY 18, Jct 200 W Through Portland Mill & Overlay, Reconstruction, Bikeath Overlay	

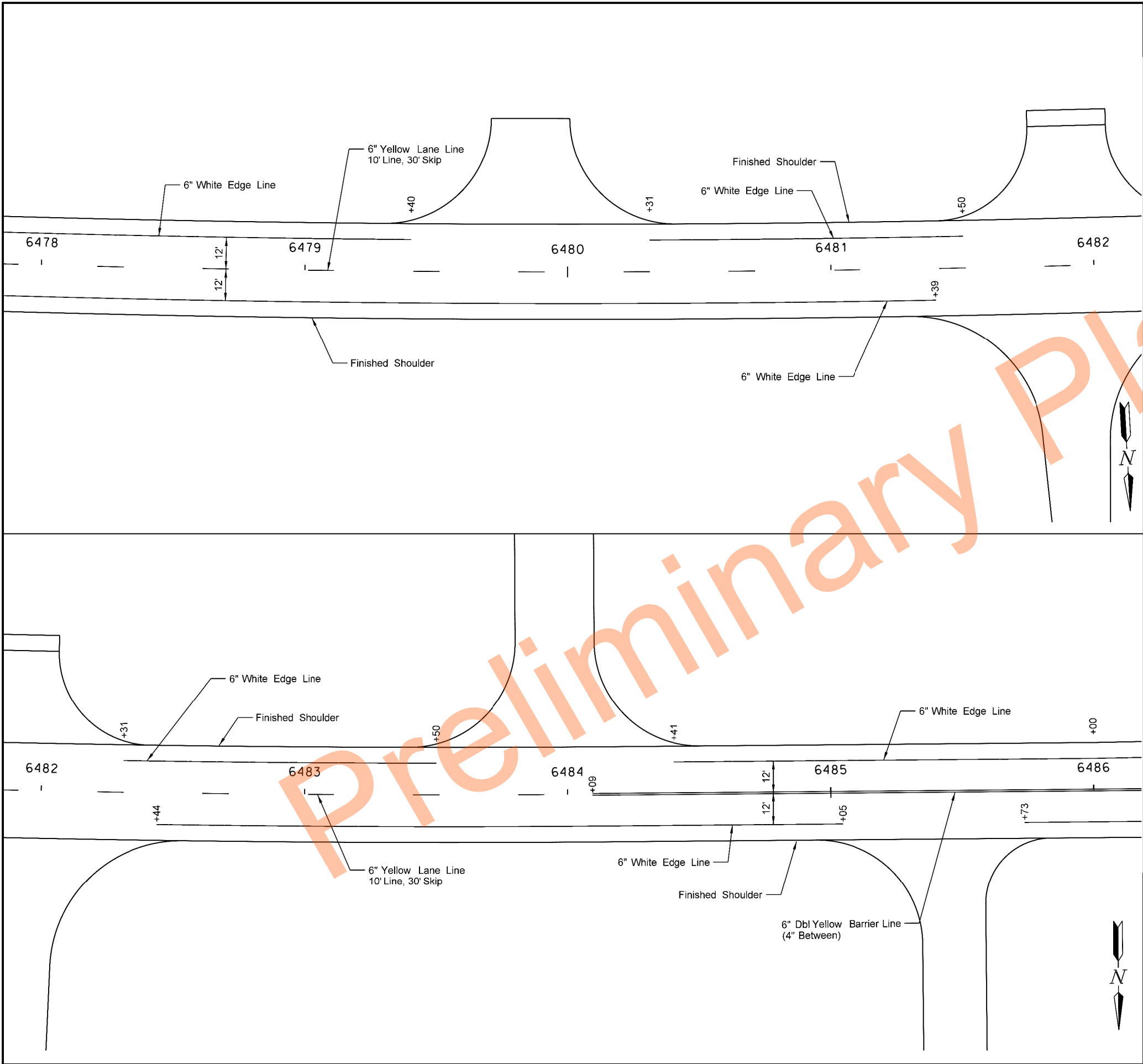


	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	120	4

SPEC	CODE	BID ITEM	QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE		
		Double Yellow Barrier Line		
		Sta 6454+00 to Sta 6454+22	22	LF
		Yellow Skip Stripe		
		Sta 6454+00 to Sta 6458+00	100	LF
		White Edge Line		
		Sta 6454+00 to Sta 6457+36 LT	336	LF
		Sta 6457+94 to Sta 6458+00 LT	6	LF
		Sta 6454+00 to Sta 6458+00 RT	400	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6454+00 to Sta 6458+00	122	LF

SPEC	CODE	BID ITEM	QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE		
		Yellow Skip Stripe		
		Sta 6458+00 to Sta 6462+00	100	LF
		White Edge Line		
		Sta 6458+00 to Sta 6462+00 LT	400	LF
		Sta 6458+00 to Sta 6461+11 RT	311	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6458+00 to Sta 6462+00	100	LF

Pavement Marking	REGISTERED PROFESSIONAL ENGINEER DUSTIN R. FANFULIK PE-27243 DATE 03/31/2026 NORTH DAKOTA
Sta 6454+00 to 6462+00	
HWY 18, Jct 200 W Through Portland	
Mill & Overlay, Reconstruction, Bikeath Overlay	

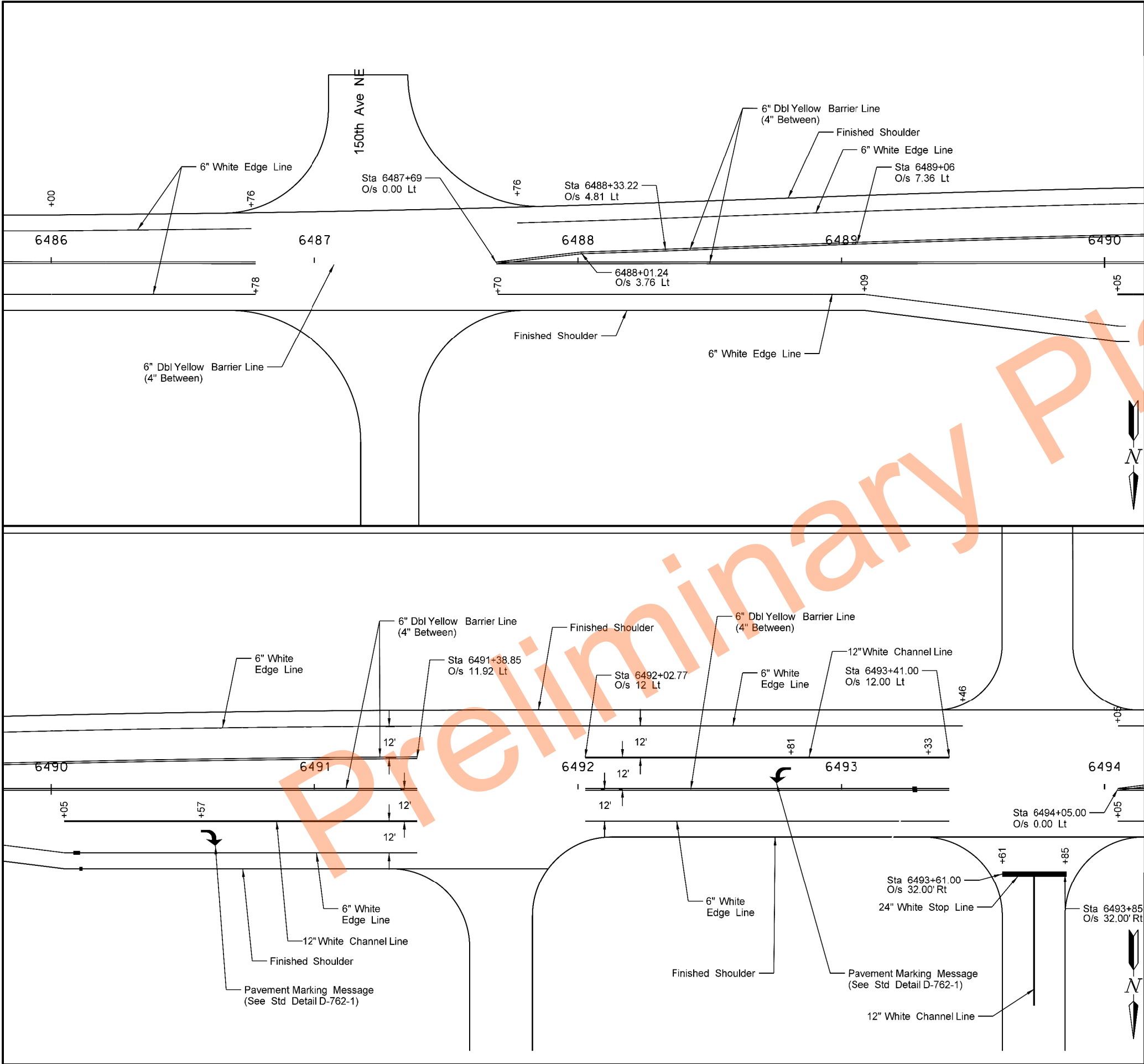


	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	120	7

SPEC	CODE	BID ITEM	QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE		
		Yellow Skip Stripe		
		Sta 6478+00 to Sta 6482+00	100	LF
		White Edge Line		
		Sta 6478+00 to Sta 6479+40 LT	140	LF
		Sta 6480+31 to Sta 6481+50 LT	119	LF
		Sta 6478+00 to Sta 6481+39 RT	339	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6478+00 to Sta 6482+00	100	LF

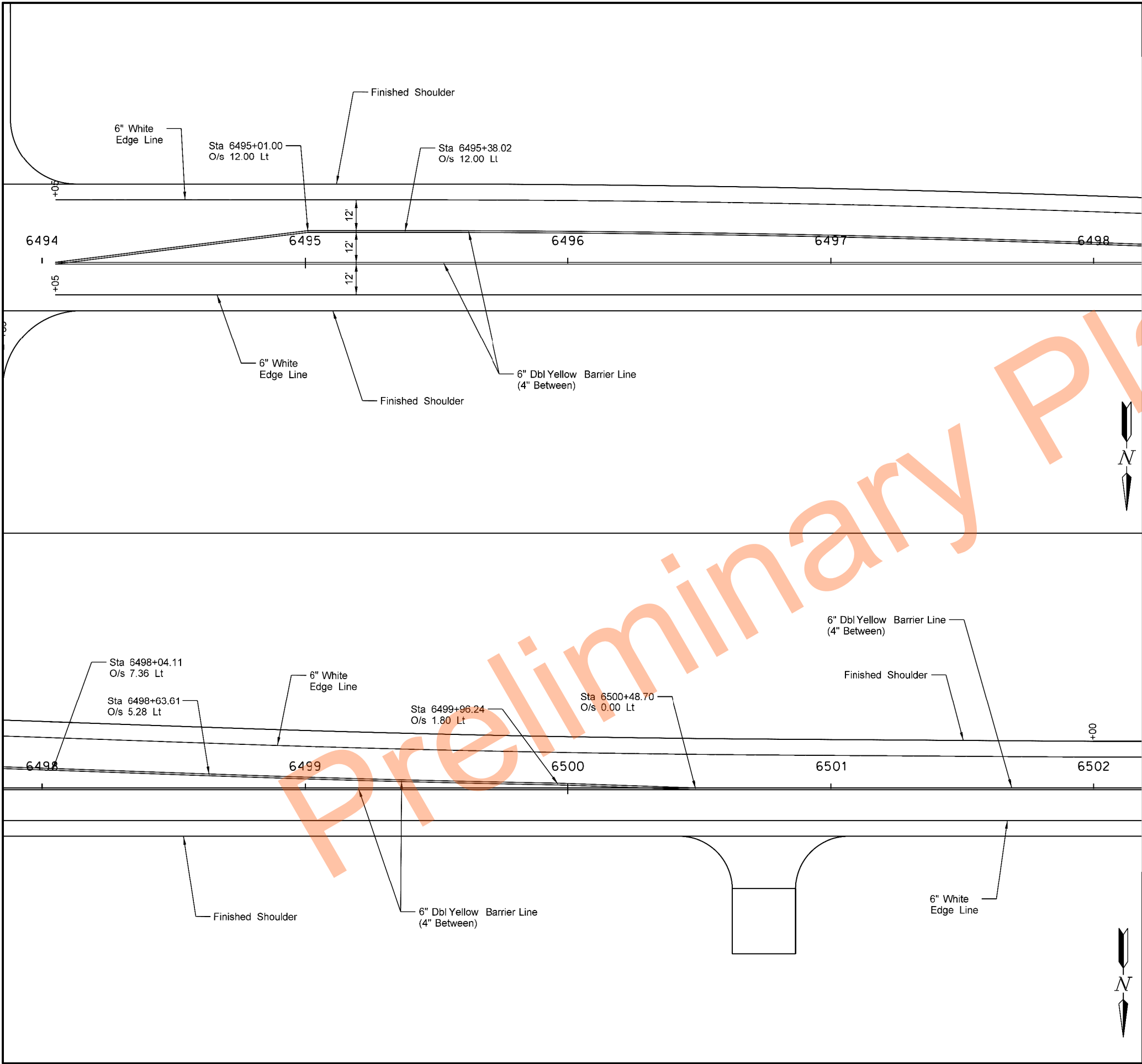
SPEC	CODE	BID ITEM	QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE		
		Yellow Skip Stripe		
		Sta 6482+00 to Sta 6484.09	52	LF
		Double Yellow Barrier Line		
		Sta 6484.09 to Sta 6486+00	382	LF
		White Edge Line		
		Sta 6482+31 to Sta 6483+50 LT	119	LF
		Sta 6484+41 to Sta 6486+00 LT	159	LF
		Sta 6482+44 to Sta 6485+05 RT	261	LF
		Sta 6485+73 to Sta 6486+00 RT	27	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6482+00 to Sta 6486+00	434	LF

Pavement Marking	
Sta 6478+00 to 6486+00	
HWY 18, Jct 200 W Through Portland	
Mill & Overlay, Reconstruction, Bikeath Overlay	



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	120	8
SPEC	CODE	BID ITEM	QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE		
		Double Yellow Barrier Line		
		Sta 6486+00 to Sta 6486+78	156	LF
		Sta 6487+69 to Sta 6490+00	462	LF
		Sta 6487+69 to Sta 6490+00 LT	462	LF
		White Edge Line		
		Sta 6486+00 to Sta 6486+76 LT	76	LF
		Sta 6487+77 to Sta 6490+00 LT	223	LF
		Sta 6486+00 to Sta 6486+78 RT	78	LF
		Sta 6487+70 to Sta 6490+00 RT	230	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6486+00 to Sta 6490+00	1080	LF
SPEC	CODE	BID ITEM	QTY	UNIT
762	0111	EPOXY PVMT MK 12IN LINE		
		Sta 6490+05 to Sta 6491+39 RT	134	LF
		Sta 6492+03 to Sta 6493+41 LT	138	LF
		Sta 6493+73 32'RT to 82'RT	50	LF
762	0112	EPOXY PVMT MK MESSAGE		
		Sta 6490+05 to Sta 6491+39 RT	16	SF
		Sta 6492+03 to Sta 6493+41 LT	16	SF
762	0114	EPOXY PVMT MK 6IN LINE		
		Double Yellow Barrier Line		
		Sta 6490+00 to Sta 6491+39	278	LF
		Sta 6492+03 to Sta 6493+41	276	LF
		Sta 6490+00 to Sta 6491+39 LT	278	LF
		White Edge Line		
		Sta 6490+00 to Sta 6493+46 LT	346	LF
		Sta 6490+00 to Sta 6491+39 RT	139	LF
		Sta 6492+03 to Sta 6493+41 RT	138	LF
762	0117	EPOXY PVMT MK 24IN LINE		
		Sta 6493+61 to Sta 6493+85 32'RT	24	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6490+00 to Sta 6494+00	832	LF

Pavement Marking Sta 6486+00 to 6494+00 HWY 18, Jct 200 W Through Portland Mill & Overlay, Reconstruction, Bikeath Overlay	REGISTERED PROFESSIONAL ENGINEER DUSTIN R. FANFULK PE-27243 DATE 03/31/2026 NORTH DAKOTA
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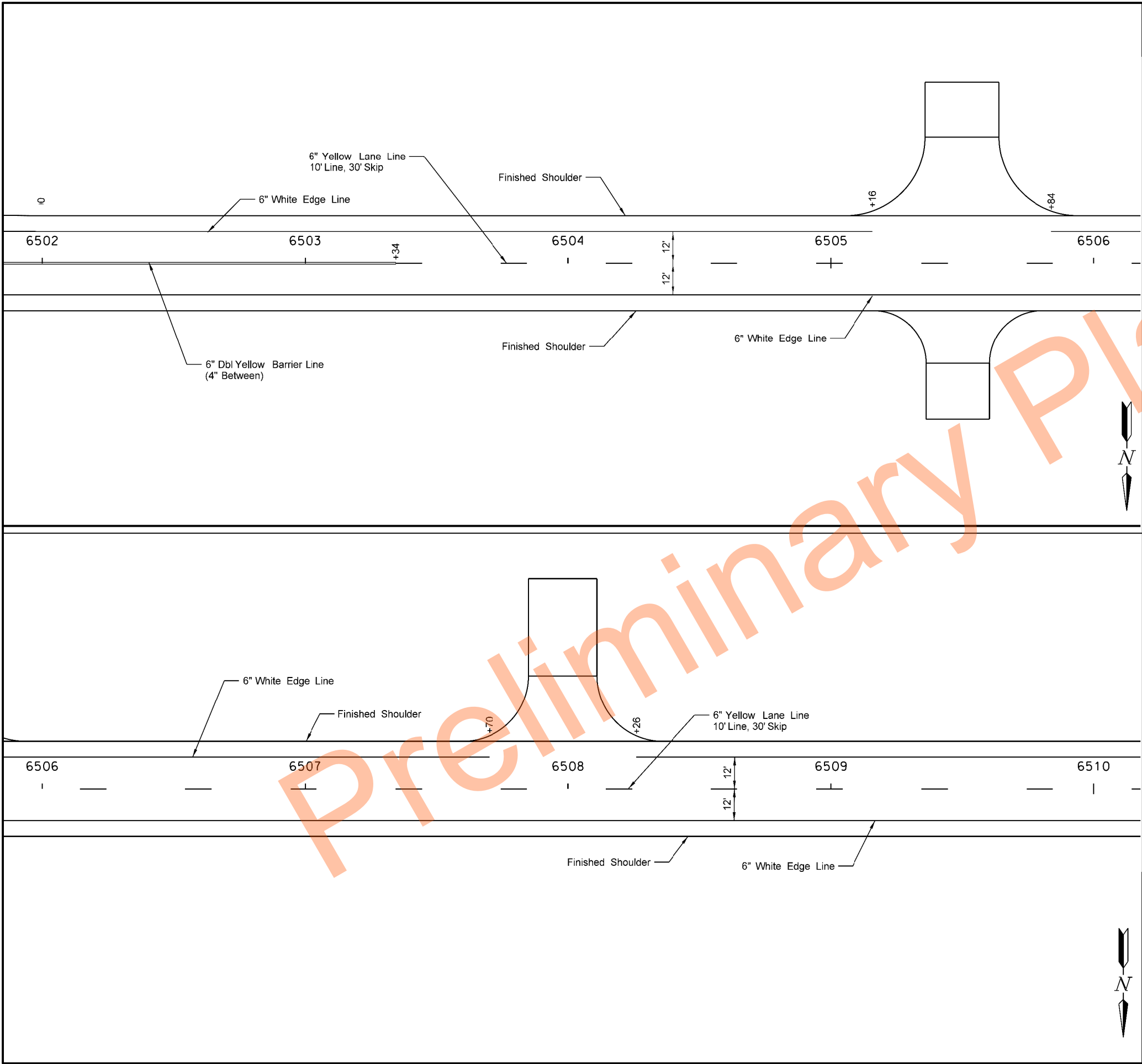


	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	120	9

SPEC	CODE	BID ITEM	QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE		
		Double Yellow Barrier Line		
		Sta 6494+05 to Sta 6498+00	790	LF
		Sta 6494+05 to Sta 6498+00 LT	790	LF
		White Edge Line		
		Sta 6494+05 to Sta 6498+00 LT	395	LF
		Sta 6494+05 to Sta 6498+00 RT	395	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6494+00 to Sta 6498+00	1580	LF

SPEC	CODE	BID ITEM	QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE		
		Double Yellow Barrier Line		
		Sta 6498+00 to Sta 6502+00	800	LF
		Sta 6498+00 to Sta 6500+49 LT	498	LF
		White Edge Line		
		Sta 6498+00 to Sta 6502+00 LT	400	LF
		Sta 6498+00 to Sta 6502+00 RT	400	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6498+00 to Sta 6502+00	1298	LF

Pavement Marking	
Sta 6494+00 to 6502+00	
HWY 18, Jct 200 W Through Portland Mill & Overlay, Reconstruction, Bikeath Overlay	



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	120	10

SPEC	CODE	BID ITEM	QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE		
		Double Yellow Barrier Line		
		Sta 6502+00 to Sta 6503+34	268	LF
		Yellow Skip Stripe		
		Sta 6503+34 to Sta 6506+00	67	LF
		White Edge Line		
		Sta 6502+00 to Sta 6505+16 LT	316	LF
		Sta 6505+84 to Sta 6506+00 LT	16	LF
		Sta 6502+00 to Sta 6506+00 RT	400	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6502+00 to Sta 6506+00	335	LF

SPEC	CODE	BID ITEM	QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE		
		Yellow Skip Stripe		
		Sta 6506+00 to Sta 6510+00	100	LF
		White Edge Line		
		Sta 6506+00 to Sta 6507+70 LT	170	LF
		Sta 6508+26 to Sta 6510+00 LT	174	LF
		Sta 6506+00 to Sta 6510+00 RT	400	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6506+00 to Sta 6510+00	100	LF

Pavement Marking	
Sta 6502+00 to 6510+00	
HWY 18, Jct 200 W Through Portland Mill & Overlay, Reconstruction, Bikeath Overlay	

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	120	11

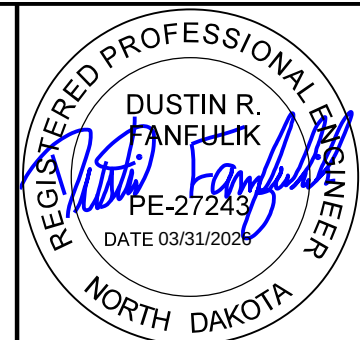
SPEC	CODE	BID ITEM	QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE		
		Yellow Skip Stripe		
		Sta 6510+00 to Sta 6514+00	100	LF
		White Edge Line		
		Sta 6510+00 to Sta 6514+00 LT	400	LF
		Sta 6510+00 to Sta 6514+00 RT	400	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6510+00 to Sta 6514+00	100	LF

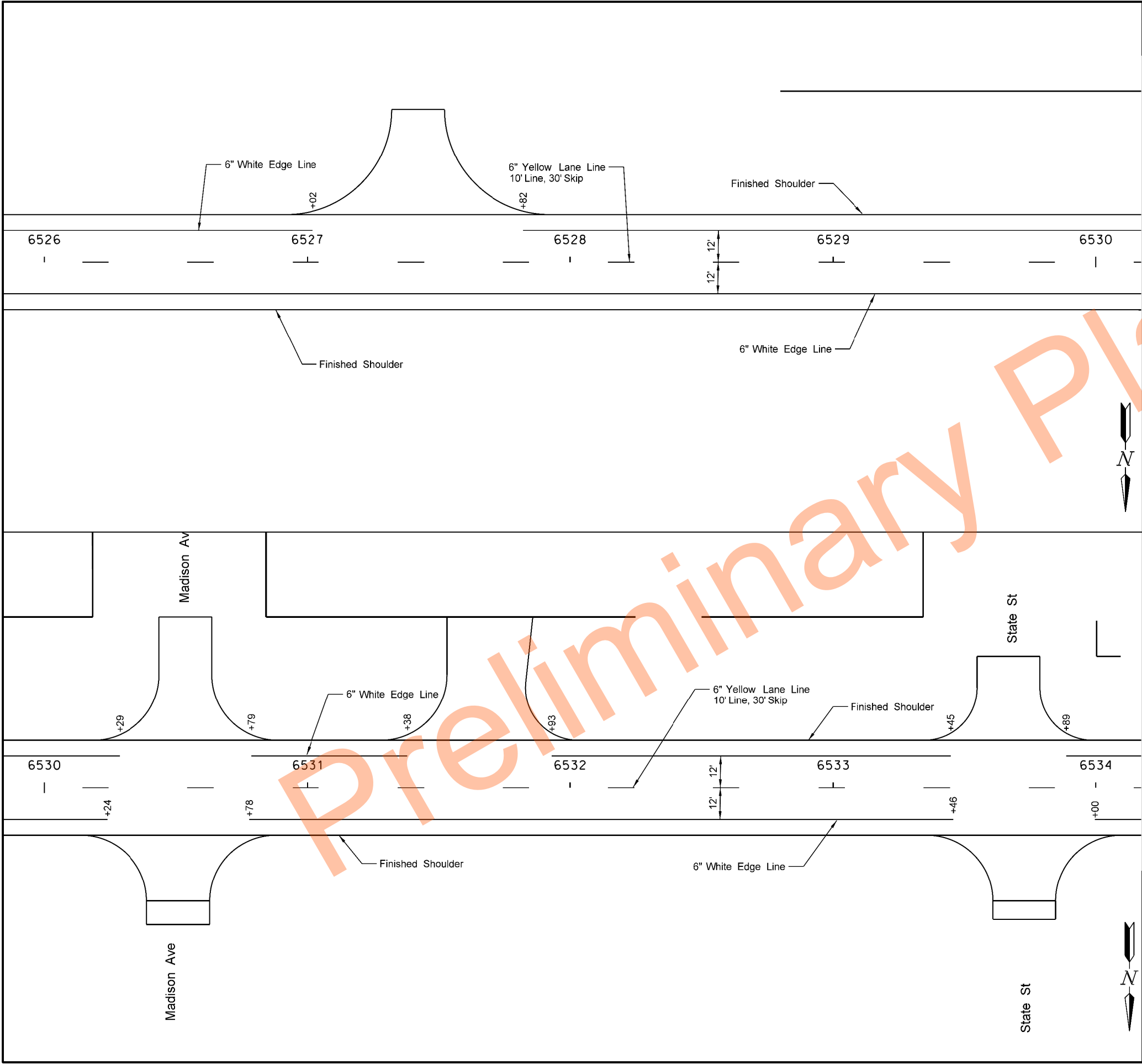
SPEC	CODE	BID ITEM	QTY	UNIT
<u>762</u>	<u>0114</u>	<u>EPOXY PVMT MK 6IN LINE</u>		
		Yellow Skip Stripe		
		Sta 6514+00 to Sta 6518+00	100	LF
		White Edge Line		
		Sta 6514+00 to Sta 6518+00 LT	400	LF
		Sta 6514+26 to Sta 6515+24 RT	124	LF
		Sta 6515+84 to Sta 6518+00 RT	216	LF
<u>762</u>	<u>0432</u>	<u>SHORT TERM 6IN LINE-TYPE NR</u>		
		Sta 6514+00 to Sta 6518+00	100	LF

Pavement Marking

Sta 6510+00 to 6518+00

HWY 18, Jct 200 W Through Portland
Mill & Overlay, Reconstruction, Bikeath Overlay



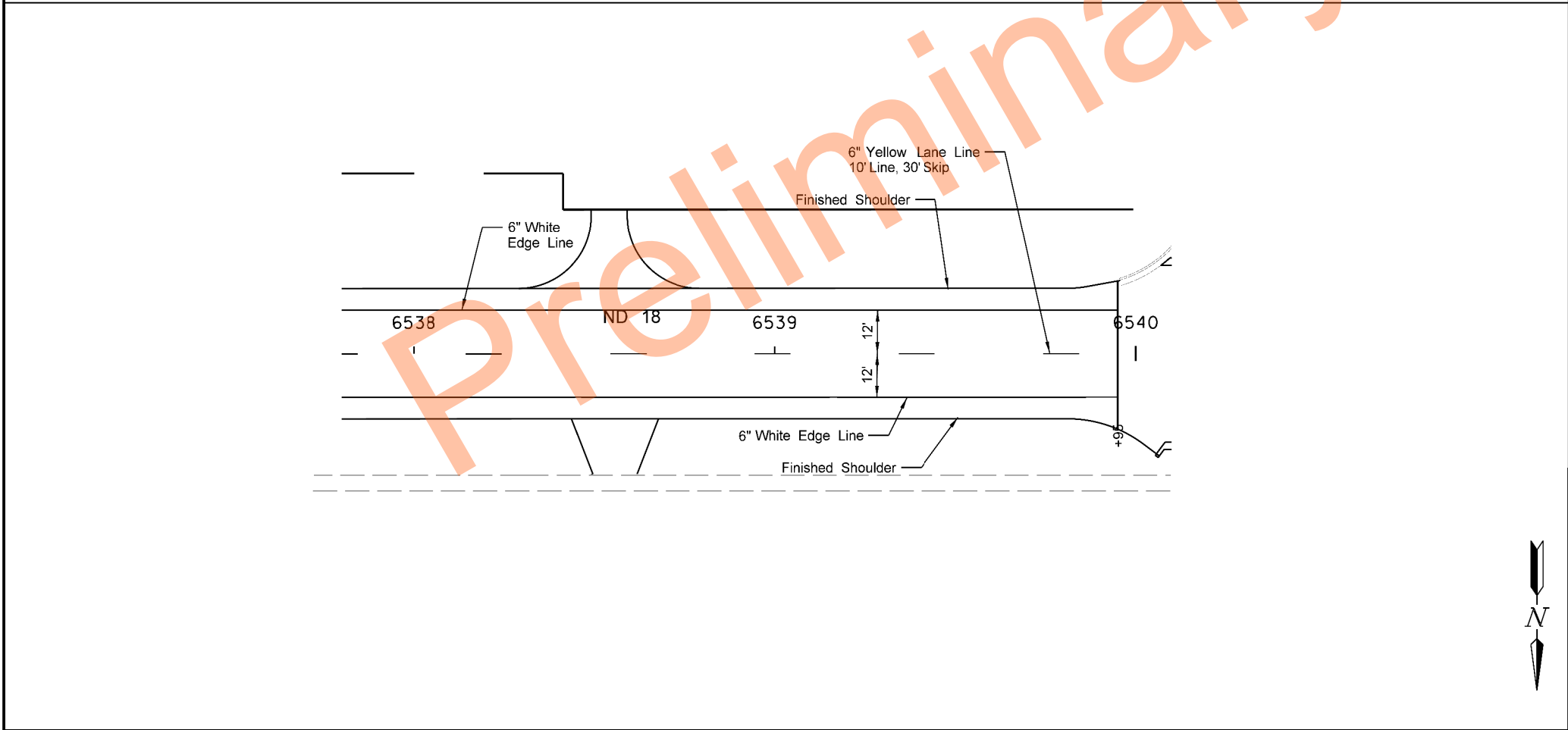
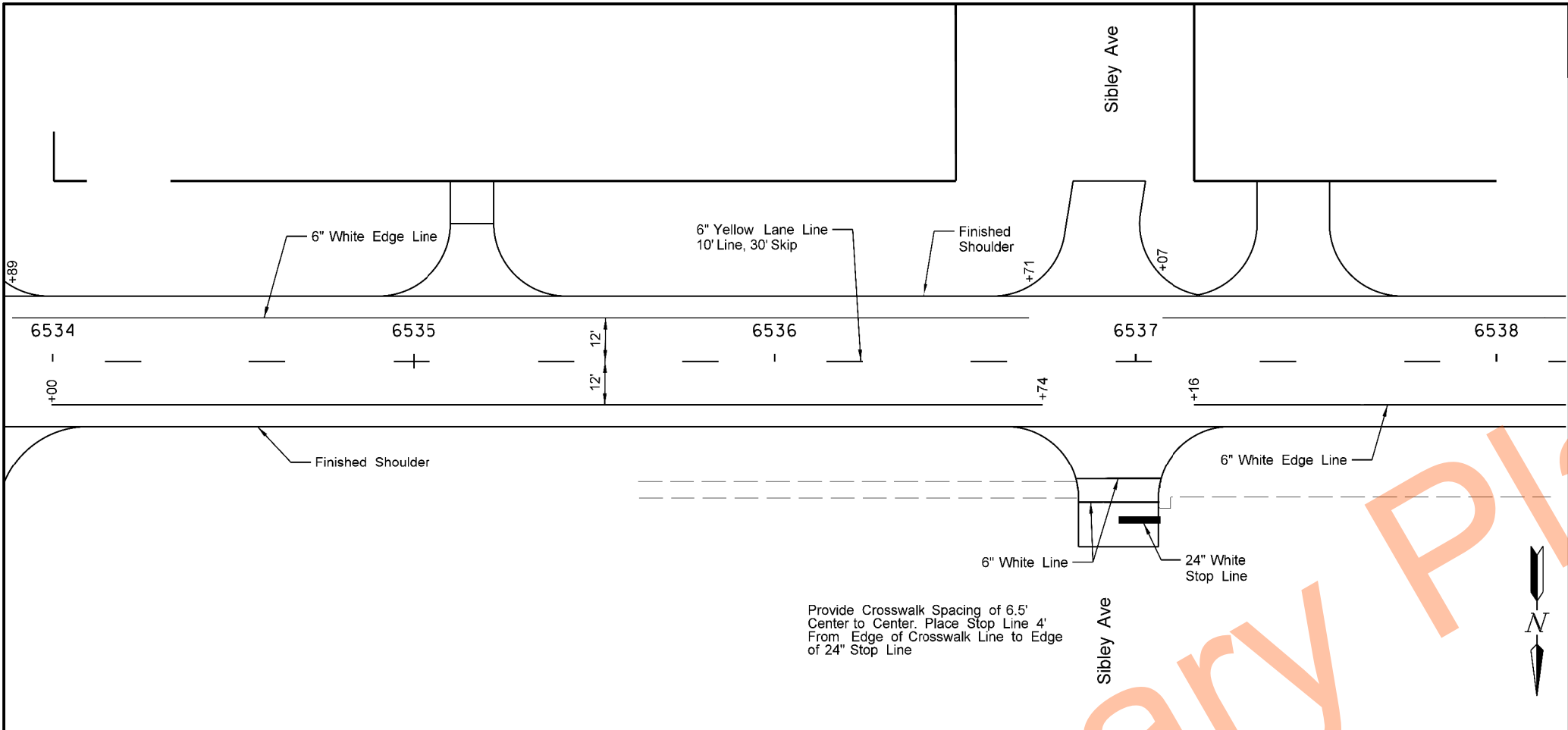


		STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	NH-8-018(111)121	120	13

SPEC	CODE	BID ITEM	QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE		
		Yellow Skip Stripe		
		Sta 6526+00 to Sta 6530+00	100	LF
		White Edge Line		
		Sta 6526+00 to Sta 6527+02 LT	102	LF
		Sta 6527+82 to Sta 6530+00 LT	218	LF
		Sta 6526+00 to Sta 6530+00 RT	400	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6526+00 to Sta 6530+00	100	LF

SPEC	CODE	BID ITEM	QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE		
		Yellow Skip Stripe		
		Sta 6530+00 to Sta 6534+00	100	LF
		White Edge Line		
		Sta 6530+00 to Sta 6530+29 LT	29	LF
		Sta 6530+79 to Sta 6531+38 LT	59	LF
		Sta 6531+93 to Sta 6533+45 LT	152	LF
		Sta 6533+89 to Sta 6534+00 LT	11	LF
		Sta 6530+00 to Sta 6530+24 RT	24	LF
		Sta 6530+78 to Sta 6533+46 RT	268	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6530+00 to Sta 6534+00	100	LF

Pavement Marking	REGISTERED PROFESSIONAL ENGINEER DUSTIN R. FANFULIK PE-27243 DATE 03/31/2026 NORTH DAKOTA
Sta 6526+00 to 6534+00	
HWY 18, Jct 200 W Through Portland	
Mill & Overlay, Reconstruction, Bikeath Overlay	



		STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	NH-8-018(111)121	120	14

SPEC	CODE	BID ITEM	QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE		
		Yellow Skip Stripe		
		Sta 6534+00 to Sta 6538+00	100	LF
		White Edge Line		
		Sta 6534+00 to Sta 6536+71 LT	271	LF
		Sta 6537+07 to Sta 6538+00 LT	93	LF
		Sta 6534+00 to Sta 6536+74 RT	274	LF
		Sta 6536+83 to Sta 6537+06 32'RT	23	LF
		Sta 6536+84 to Sta 6537+06 39'RT	23	LF
		Sta 6537+16 to Sta 6538+00 RT	84	LF
762	0117	EPOXY PVMT MK 24IN LINE		
		Sta 6536+95 to Sta 6537+06 44'RT	11	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6534+00 to Sta 6538+00	100	LF

SPEC	CODE	BID ITEM	QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE		
		Yellow Skip Stripe		
		Sta 6538+00 to Sta 6539+95	49	LF
		White Edge Line		
		Sta 6538+00 to Sta 6539+95 LT	195	LF
		Sta 6538+00 to Sta 6539+95 RT	195	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6538+00 to Sta 6542+00	49	LF

Pavement Marking

Sta 6534+00 to 6540+00

HWY 18, Jct 200 W Through Portland Mill & Overlay, Reconstruction, Bikeath Overlay

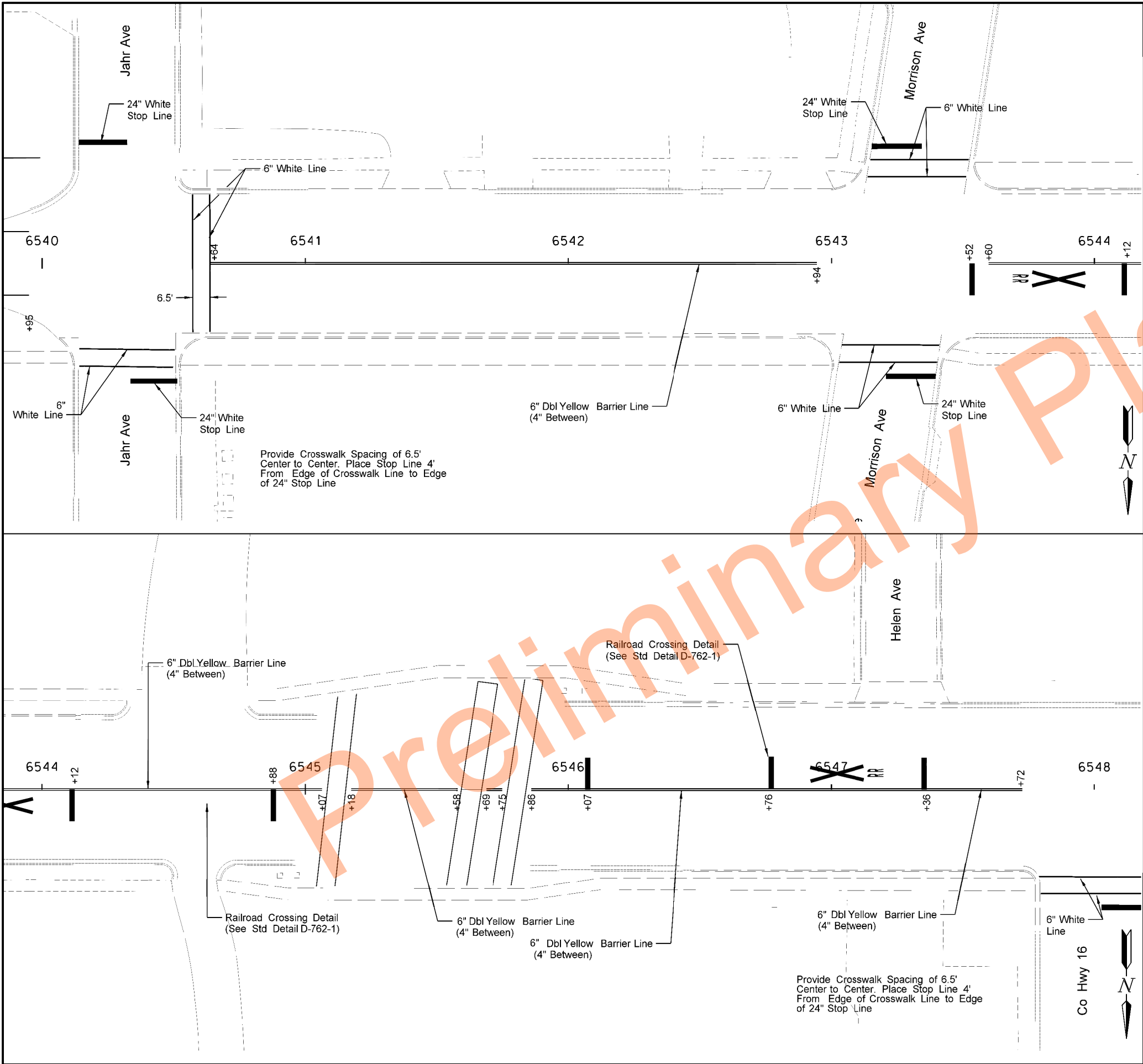
REGISTERED PROFESSIONAL ENGINEER

DUSTIN R. FANFULIK

PE-27243

DATE 03/31/2026

NORTH DAKOTA

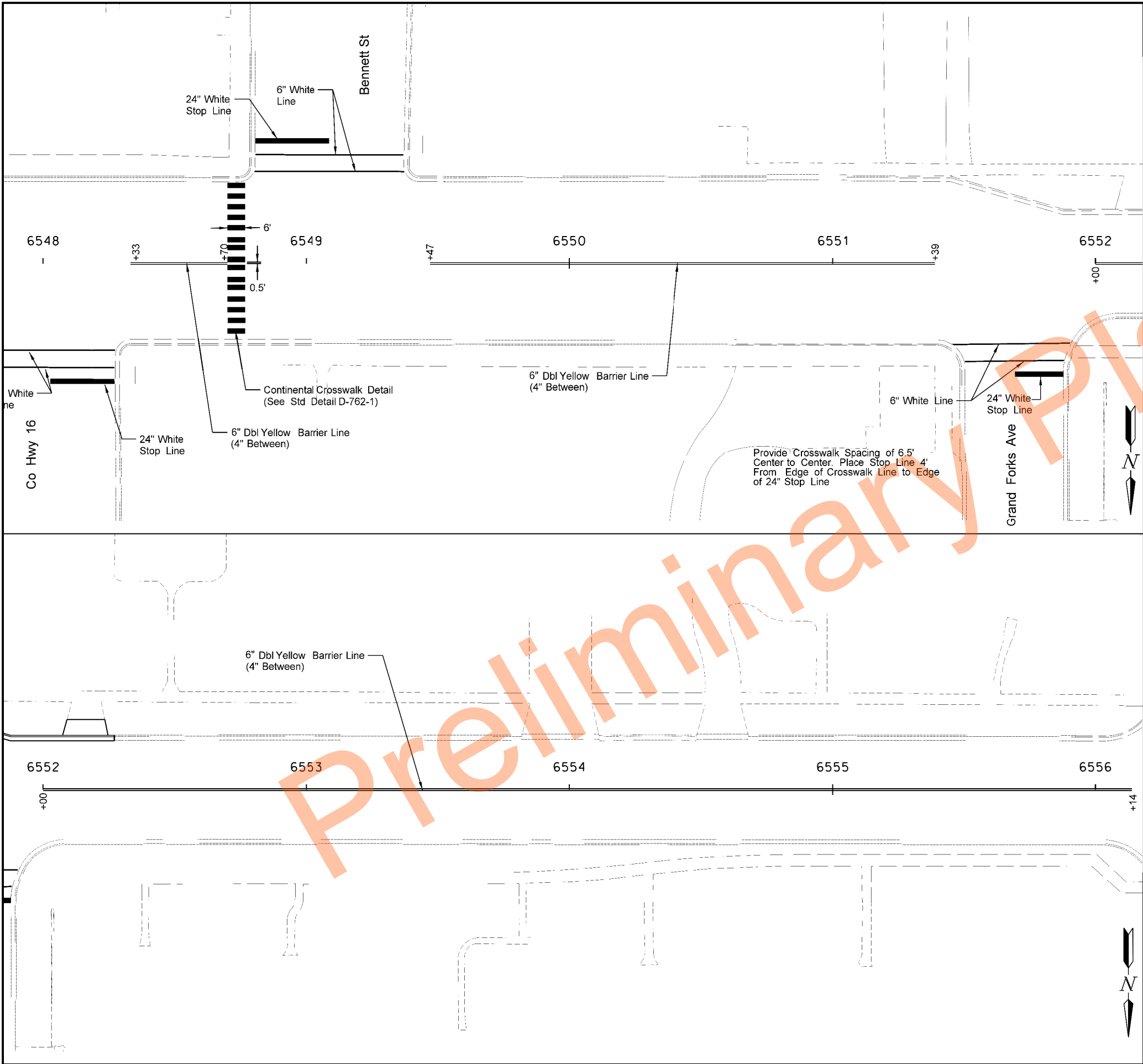


		STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	NH-8-018(111)121	120	15

SPEC	CODE	BID ITEM	QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE		
		Double Yellow Barrier Line		
		Sta 6540+64 to Sta 6542+94	460	LF
		Sta 6543+60 to Sta 6544+00	80	LF
		Single White		
		Sta 6540+14 to Sta 6540+51 33'RT	37	LF
		Sta 6540+14 to Sta 6540+51 40'RT	37	LF
		Sta 6540+57 LT & RT	53	LF
		Sta 6540+64 LT & RT	53	LF
		Sta 6543+03 to Sta 6543+41 40'RT	38	LF
		Sta 6543+04 to Sta 6543+52 33'RT	38	LF
		Sta 6543+14 to Sta 6543+52 32'LT	38	LF
		Sta 6543+15 to Sta 6543+53 39'LT	38	LF
762	0117	EPOXY PVMT MK 24IN LINE		
		Sta 6540+13 to Sta 6540+32 48'LT	19	LF
		Sta 6540+43 to Sta 6540+61 43'RT	18	LF
		Sta 6543+15 to Sta 6543+34 45'LT	19	LF
		Sta 6543+21 to Sta 6543+40 43'RT	19	LF
		Sta 6543+52	12	LF
		Sta 6544+12	12	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6540+00 to Sta 6544+00	540	LF

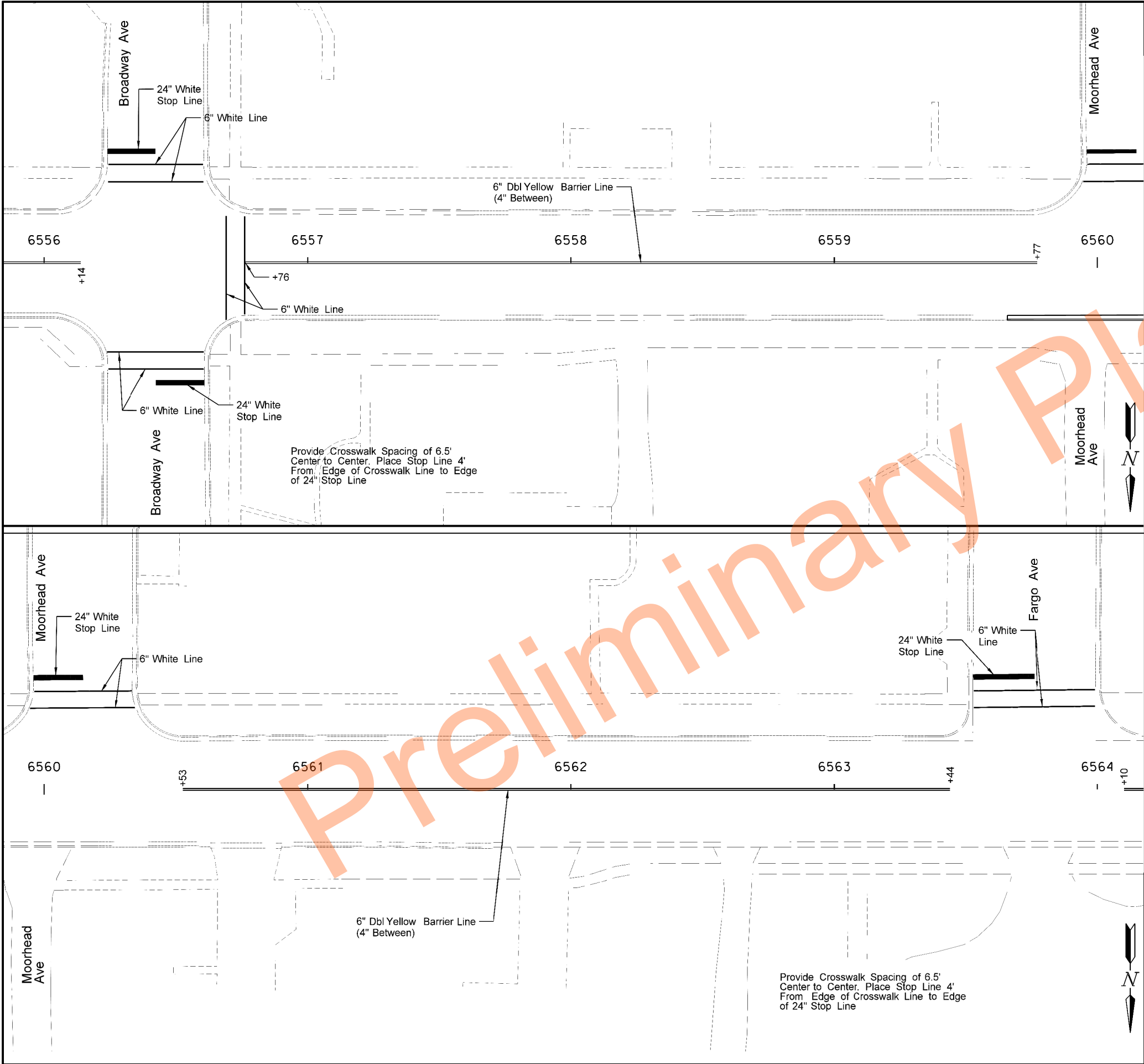
SPEC	CODE	BID ITEM	QTY	UNIT
762	0112	EPOXY PVMT MK MESSAGE		
		Sta 6543+60 to Sta 6544+88 RT	36	SF
		Sta 6546+07 to Sta 6547+36 LT	36	SF
762	0114	EPOXY PVMT MK 6IN LINE		
		Double Yellow Barrier Line		
		Sta 6544+00 to Sta 6545+08	213	LF
		Sta 6545+18 to Sta 6545+58	80	LF
		Sta 6545+86 to Sta 6547+72	12	LF
		Sta 6545+86 to Sta 6547+72	373	LF
		Single White		
		Sta 6547+79 to Sta 6548+00 33'RT	21	LF
		Sta 6547+79 to Sta 6548+00 40'RT	21	LF
762	0117	EPOXY PVMT MK 24IN LINE		
		Sta 6544+88	12	LF
		Sta 6546+07	12	LF
		Sta 6546+76	12	LF
		Sta 6547+36	12	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6544+00 to Sta 6548+00	678	LF

Pavement Marking	REGISTERED PROFESSIONAL ENGINEER DUSTIN R. FANFULIK PE-27243 DATE 03/31/2026 NORTH DAKOTA
Sta 6540+00 to 6548+00	
HWY 18, Jct 200 W Through Portland Mill & Overlay, Reconstruction, Bikeath Overlay	



		STATE	PROJECT NO.		SECTION NO.	SHEET NO.
		ND	NH-8-018(111)121		120	16
SPEC	CODE	BID ITEM			QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE				
		Double Yellow Barrier Line				
		Sta 6548+33 to Sta 6548+70			74	LF
		Sta 6549+47 to Sta 6551+39			384	LF
		Single White Line				
		Sta 6548+00 to Sta 6548+28 33'RT			28	LF
		Sta 6548+00 to Sta 6548+27 40'RT			27	LF
		Sta 6548+80 to Sta 6541+37 35'LT			57	LF
		Sta 6548+80 to Sta 6541+37 41'LT			57	LF
		Sta 6551+46 to Sta 6551+91 31'RT			45	LF
		Sta 6551+50 to Sta 6551+88 37'RT			38	LF
762	0117	EPOXY PVMT MK 24IN LINE				
		Sta 6548+03 to Sta 6548+27 45'LT			24	LF
		Sta 6548+73 LT & RT			90	LF
		Sta 6548+80 to Sta 6549+08 44'LT			28	LF
		Sta 6551+51 to Sta 6551+69 42'LT			18	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR				
		Sta 6548+00 to Sta 6552+00			458	LF
SPEC	CODE	BID ITEM			QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE				
		Double Yellow Barrier Line				
		Sta 6552+00 to Sta 6556+00			800	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR				
		Sta 6552+00 to Sta 6556+00			800	LF

Pavement Marking Sta 6548+00 to 6556+00 HWY 18, Jct 200 W Through Portland Mill & Overlay, Reconstruction, Bikeath Overlay	REGISTERED PROFESSIONAL ENGINEER DUSTIN R. FANFULK PE-27243 DATE 03/31/2026 NORTH DAKOTA
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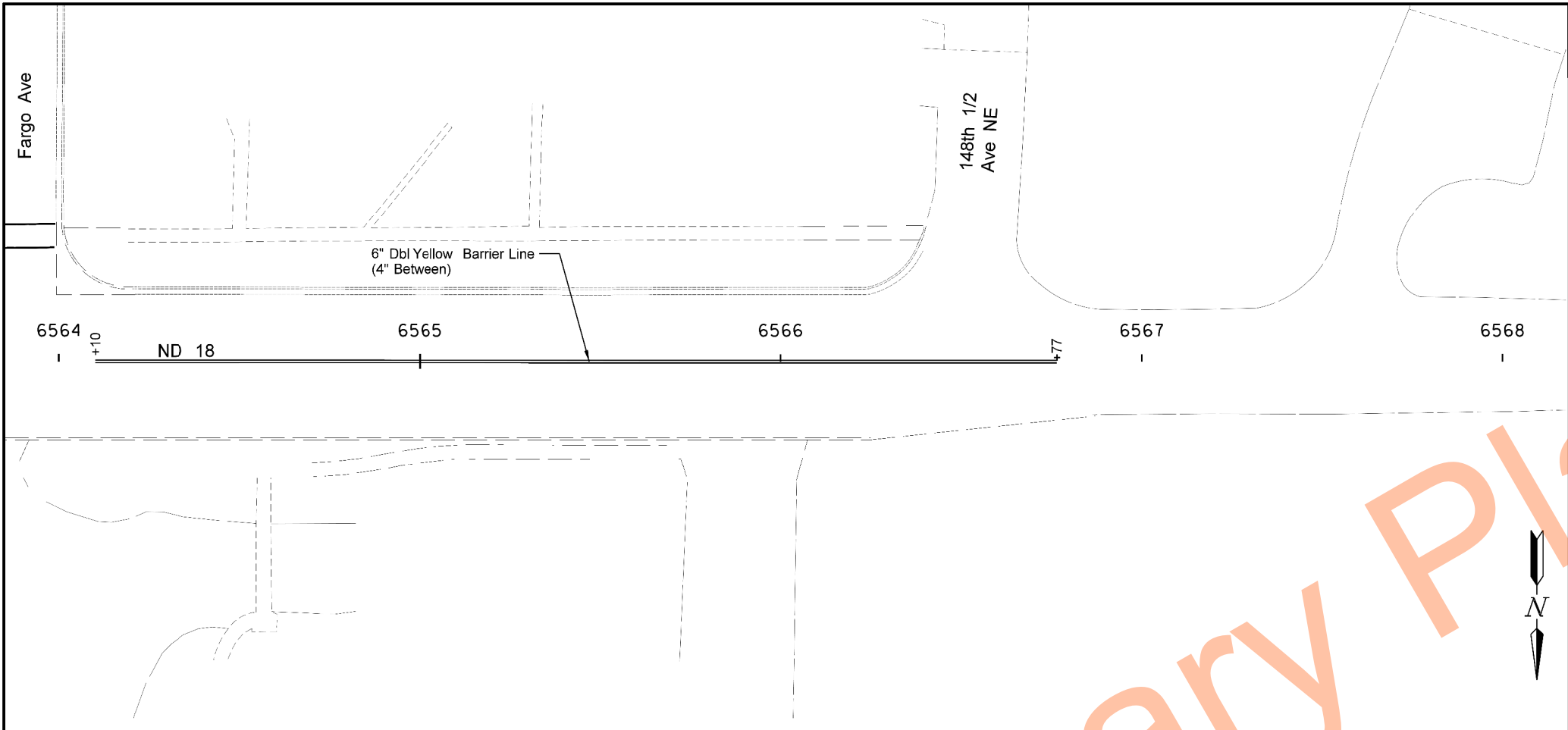


		STATE	PROJECT NO.		SECTION NO.	SHEET NO.
		ND	NH-8-018(111)121		120	17

SPEC	CODE	BID ITEM	QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE		
		Double Yellow Barrier Line		
		Sta 6556+00 to Sta 6556+14	28	LF
		Sta 6556+76 to Sta 6559+77	602	LF
		Single White Line		
		Sta 6556+24 to Sta 6556+61 30'LT	37	LF
		Sta 6556+24 to Sta 6556+61 37'LT	37	LF
		Sta 6556+24 to Sta 6556+62 33'RT	38	LF
		Sta 6556+24 to Sta 6556+62 40'RT	38	LF
		Sta 6556+69 LT & RT	40	LF
		Sta 6556+76 LT & RT	38	LF
		Sta 6559+94 to Sta 6560+00 32'LT	6	LF
		Sta 6559+96 to Sta 6560+00 39'LT	4	LF
762	0117	EPOXY PVMT MK 24IN LINE		
		Sta 6556+24 to Sta 6556+42 42'LT	18	LF
		Sta 6556+42 to Sta 6556+61 45'RT	19	LF
		Sta 6559+96 to Sta 6560+00 44'LT	4	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6556+00 to Sta 6560+00	630	LF

SPEC	CODE	BID ITEM	QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE		
		Double Yellow Barrier Line		
		Sta 6560+53 to Sta 6563+44	582	LF
		Single White Line		
		Sta 6560+00 to Sta 6560+35 32'LT	35	LF
		Sta 6560+00 to Sta 6560+34 39'LT	34	LF
		Sta 6563+53 to Sta 6564+00 30'LT	47	LF
		Sta 6563+53 to Sta 6564+00 37'LT	47	LF
762	0117	EPOXY PVMT MK 24IN LINE		
		Sta 6560+00 to Sta 6560+15 44'LT	15	LF
		Sta 6563+53 to Sta 6563+76 42'RT	23	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6560+00 to Sta 6564+00	582	LF

Pavement Marking	REGISTERED PROFESSIONAL ENGINEER DUSTIN R. FANFULK PE-27243 DATE 03/31/2026 NORTH DAKOTA
Sta 6556+00 to 6564+00	
HWY 18, Jct 200 W Through Portland Mill & Overlay, Reconstruction, Bikeath Overlay	



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-8-018(111)121	120	18

SPEC	CODE	BID ITEM	QTY	UNIT
762	0114	EPOXY PVMT MK 6IN LINE		
		Double Yellow Barrier Line		
		Sta 6564+10 to Sta 6566+77	534	LF
762	0432	SHORT TERM 6IN LINE-TYPE NR		
		Sta 6564+00 to Sta 6566+77	534	LF

Preliminary Plans

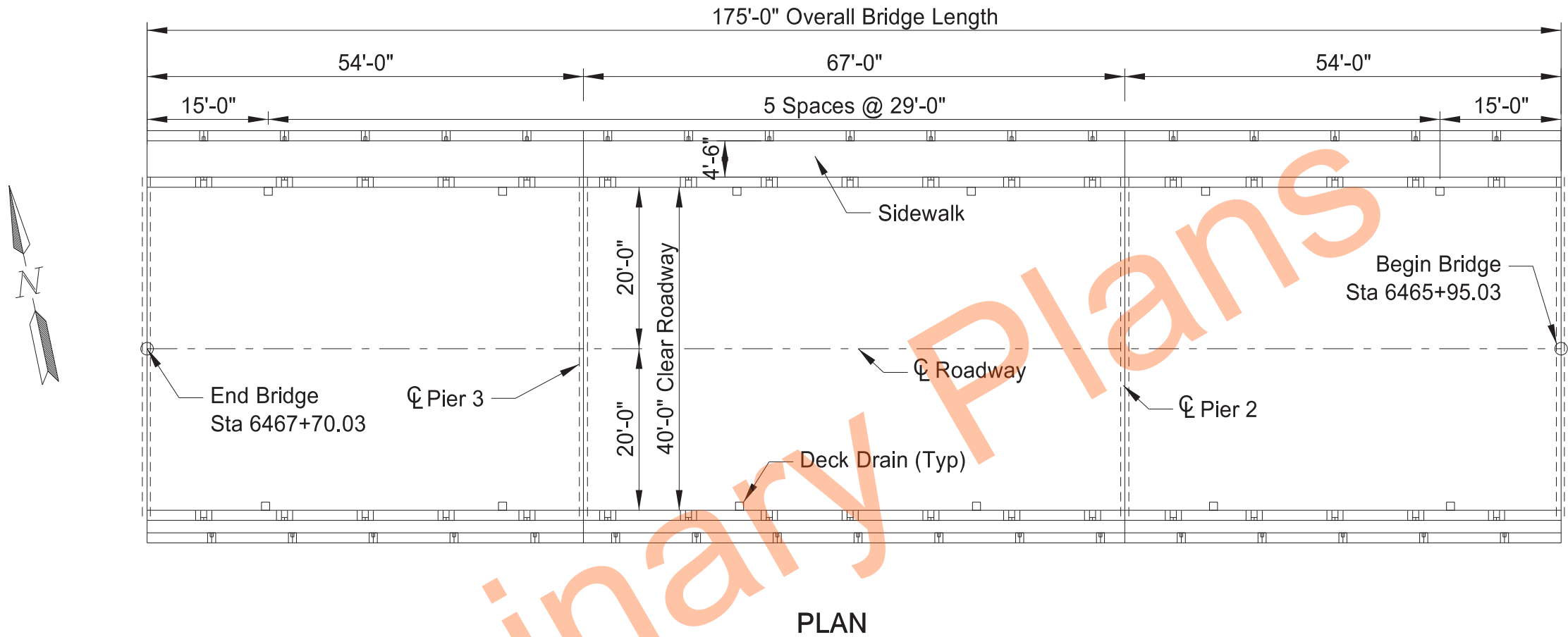
Pavement Marking

Sta 6564+00 to 6566+86

HWY 18, Jct 200 W Through Portland
Mill & Overlay, Reconstruction, Bikeath Overlay



STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NH-8-018(111)121	170	1



BRIDGE BID ITEMS				
SPEC	CODE	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
602	1250	Penetrating Water Repellant Treatment	SY	943
650	0704	Overlay Concrete	CY	56
650	0707	Deck Concrete	CY	11
650	0720	Class 1 Removal	SY	778
650	0721	Class 2 Removal	SY	156
650	0722	Class 2-A Removal	LF	281
650	0723	Class 3 Removal	SY	39
650	0724	Class 4 Removal	SY	9
930	9223	Crack Sealing	LF	200
930	9534	Modify Deck Drain	EA	12
930	9612	Spall Repair	SF	15



SP 389(25)		CONCRETE SPALL REPAIR
Goose River		
Bridge Layout		
ND DEPARTMENT OF TRANSPORTATION BRIDGE DIVISION		
Jason Thorenson		04/13/26
DRAWING NO.	18-122.478-1	

23 U.S.C. § 407
NDDOT Reserves All Objections

STATE
ND

PROJECT NO.
NH-8-018(111)121

SECTION NO.
170

SHEET NO.
2

NOTES

100

SCOPE OF WORK: Complete Bridge Deck Overlay, spall repair to underside of deck at deck drain locations, and extend deck drains..

602

WATER WASHING EQUIPMENT: In addition to the water-washing equipment listed in Section 602.02 D, a cold water pressure washer that provides a minimum nozzle pressure of 3,000 psi may be used.

602

PENETRATING WATER REPELLENT TREATMENT: Apply penetrating water repellent to the driving surface of the bridge deck, the top surface of the sidewalk, and the top and inside faces of the concrete curbs adjacent to the roadway. Apply penetrating water repellent solution prior to sealing any bridge deck cracks. Do install pavement markings or allow traffic until the solution has completely penetrated and the entire driving surface is dry.

650

CRACK SEALING: After the penetrating water repellent has been applied and is dry, the Engineer will perform a visual inspection of the bridge deck to determine the need for crack sealing. Mark and seal all visible cracks appearing on the top surface 0.012” or greater at its widest segment or as directed by the Engineer.

Immediately before applying the sealer, clean the cracks by removing all dust and debris with compressed air. Seal the cracks with two-part epoxy in accordance with the manufacturer’s recommendations. Chase crack with the sealant application to limits of crack, including those portions that are narrower than 0.012” wide. Use Paulco TE-2501 (Viking Paints, Inc.), Dural 50 LM (Euclid Chemical Co.), TK-9000 or TK-2110 (TK Products), or an approved equal epoxy sealer. Include all work and materials associated with the deck overlay crack sealing in the price bid for "OVERLAY CONCRETE."

650

OVERLAY CONCRETE: An additional ¼” depth of overlay concrete was included in the overlay concrete quantity to account for the irregular surface profile from milling.

930

MODIFY DECK DRAIN: Extend the existing deck drains in accordance with Section 616.04. Provide HSS tubing meeting ASTM A500 Grade B. Galvanize the deck drain extensions after fabrication. Prep the locations to be field welded by removing rust or other coatings prior to welding. After completion of field welding, paint the outer surfaces of the deck drains in the weld areas with a zinc rich paint meeting ASTM A780.

Include all labor, equipment, and materials required to extend the deck drains in the bid item “Modify Deck Drain”.

930

SPALL REPAIR: The underside of the bridge deck exhibits spalling at the deck drain locations listed in the table below. Actual repair locations and limits will be determined by the Engineer in the field. At the locations identified, complete the spall repair work in accordance with the Special Provision for Concrete Spall Repair.

SPALL REPAIR		
Photo	Location	Repair Area (SF)
1	South Soffit Span 1	9
2	South Soffit Span 3	6

930

CRACK SEALING: After the penetrating water repellent has been applied and is dry, the Engineer will perform a visual inspection of the concrete curbs and sidewalks to determine the need for crack sealing. Mark and repair all visible cracks appearing on the top surface 0.012” or greater in width at its widest segment or as directed by the Engineer.

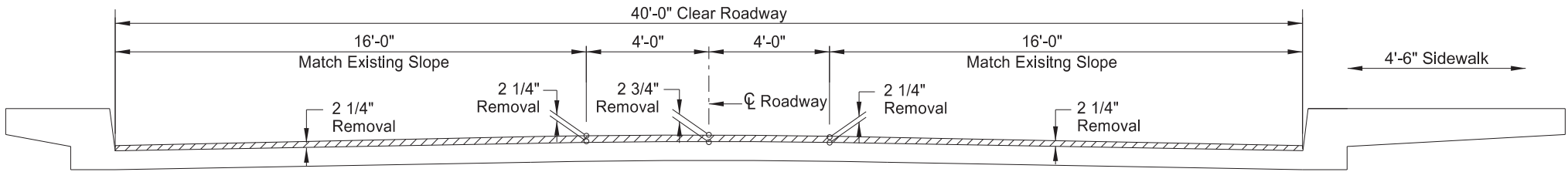
Immediately before applying the sealer, clean the cracks by removing all dust and debris with compressed air. Seal the cracks with a two-part epoxy in accordance with the manufacturer’s recommendations. Chase crack with the sealant application to limits of crack, including those portions that are narrower than 0.012” wide. Use Paulco TE-2501 (Viking Paints, Inc.), Dural 50 LM (Euclid Chemical Co.), TK-9000 or TK-2110 (TK Products), or approved equal epoxy sealer.

Include all labor, equipment, and materials associated with the curb and sidewalk crack sealing in the bid item “CRACK SEALING.”

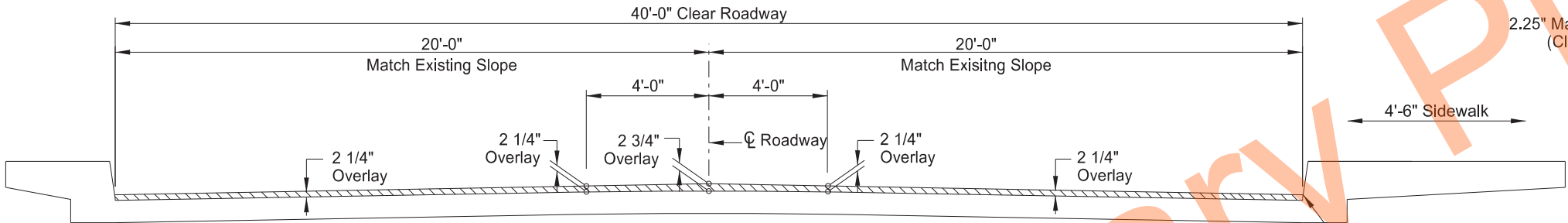
REGISTERED PROFESSIONAL ENGINEER
DUSTIN R. FANFULIK
PE-27243
DATE 04/13/26
NORTH DAKOTA

23 U.S.C. § 407 Documents
NDDOT Reserves All Objections

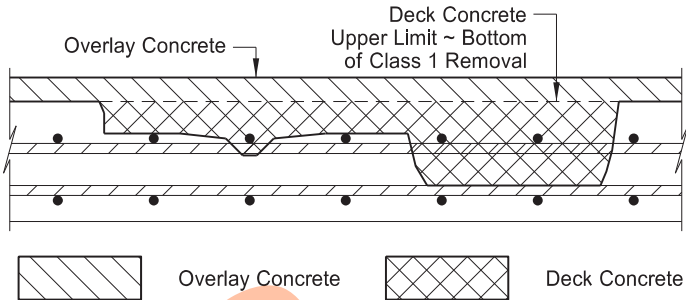
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NH-8-018(111)121	170	3



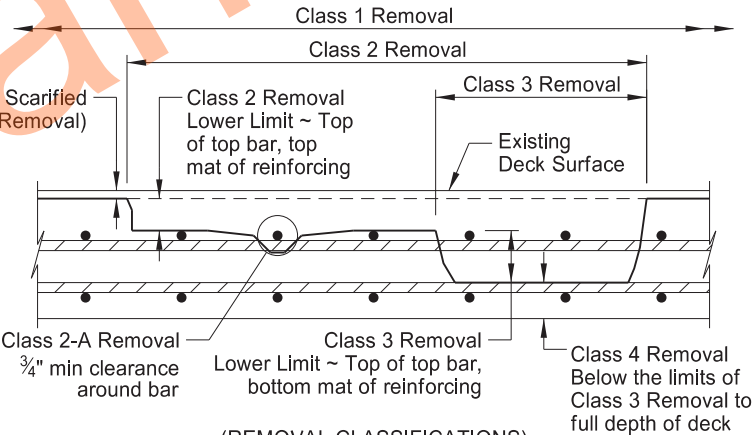
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TYPICAL DECK SECTION



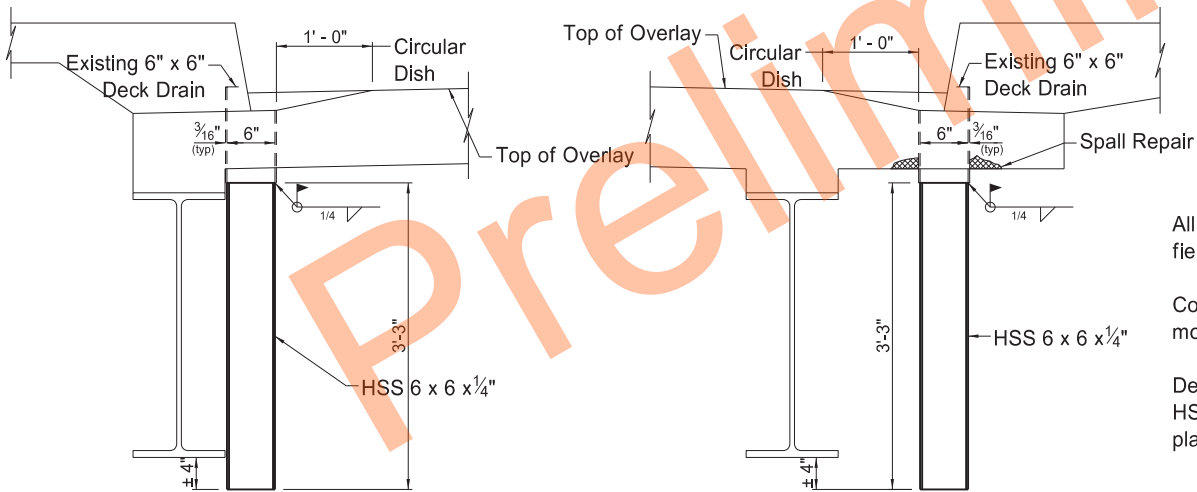
(SHOWING OVERLAY)
TYPICAL DECK SECTION



(DECK CONCRETE)
BRIDGE DECK SECTION



(REMOVAL CLASSIFICATIONS)
BRIDGE DECK SECTION



TYPICAL WESTBOUND DECK DRAIN

TYPICAL EASTBOUND DECK DRAIN

DECK DRAIN DETAILS

Indicates Spall Repair Area

All areas to be verified by Engineer in the field prior to removal.

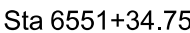
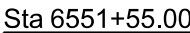
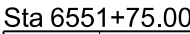
Complete spall repairs prior to deck drain modifications.

Deck drain modifications consist of installing HSS drainpipe extension tubes as shown in plans.



QUANTITIES	
OVERLAY CONCRETE	56 CY
DECK CONCRETE	11 CY
CLASS 1 REMOVAL	778 SY
CLASS 2 REMOVAL	156 SY
CLASS 2-A REMOVAL	281 LF
CLASS 3 REMOVAL	39 SY
CLASS 4 REMOVAL	9 SY
ND DEPARTMENT OF TRANSPORTATION BRIDGE DIVISION	
DRAWING NO.	18-122.478-3

Parke Ave

1

OCL_HWY_200

Parke Ave

STATE

PROJECT NO.

SECTION NO.

SHEET NO.

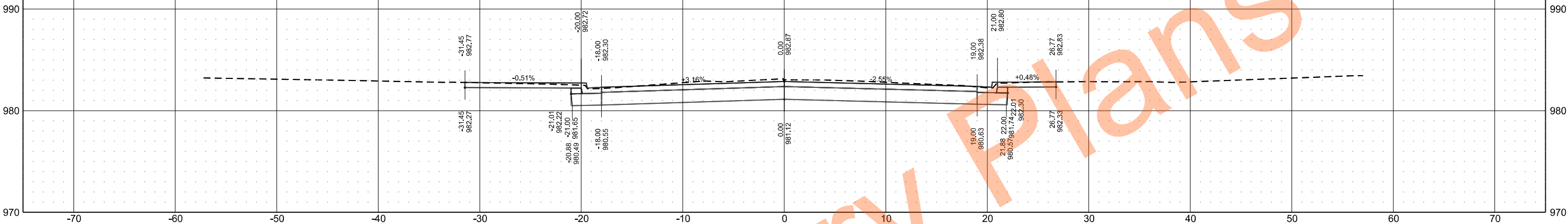
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NH-8-018(111)121

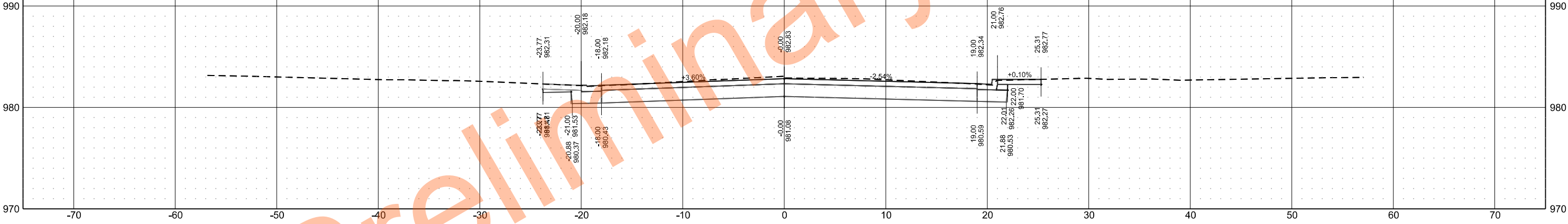
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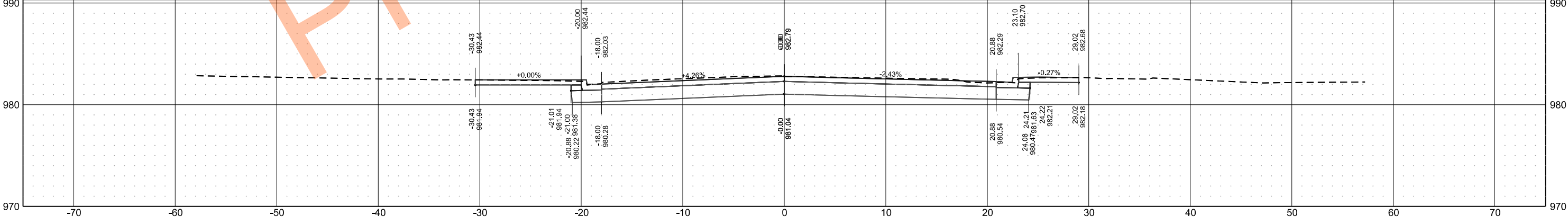
Sta 6552+25.00



Sta 6552+15.00



Sta 6552+00.00



OCL_HWY_200

Parke Ave

STATE

PROJECT NO.

SECTION NO.

SHEET NO.

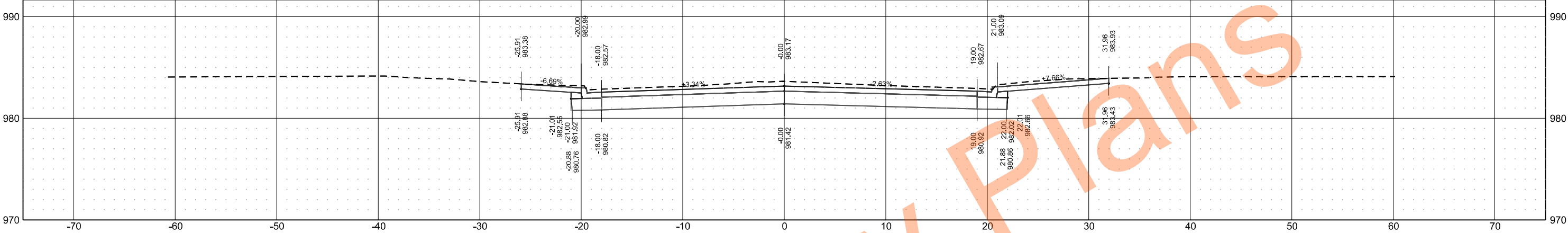
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NH-8-018(111)121

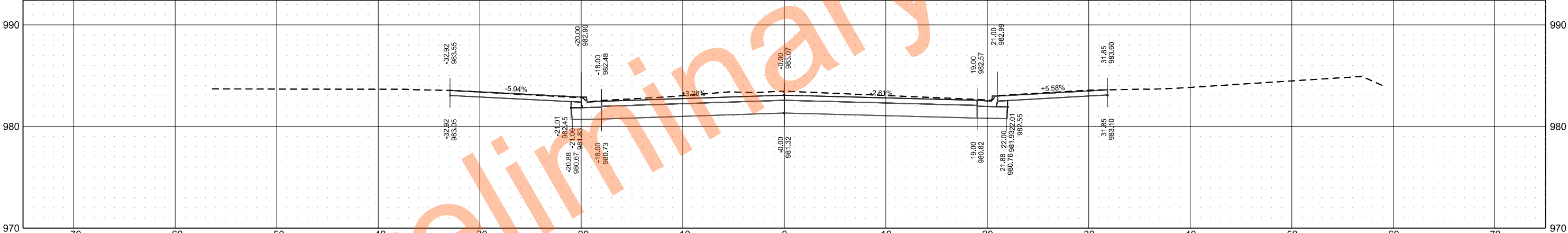
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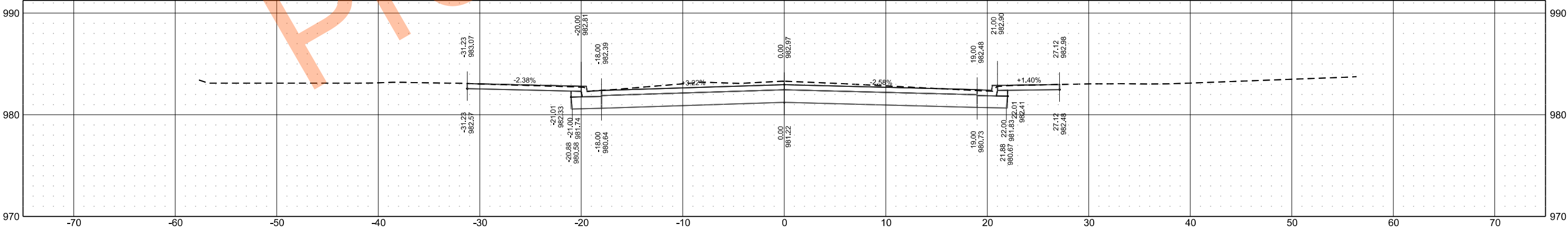
Sta 6553+00.00



Sta 6552+75.00



Sta 6552+50.00



OCL_HWY_200

Parke Ave

STATE

PROJECT NO.

SECTION NO.

SHEET NO.

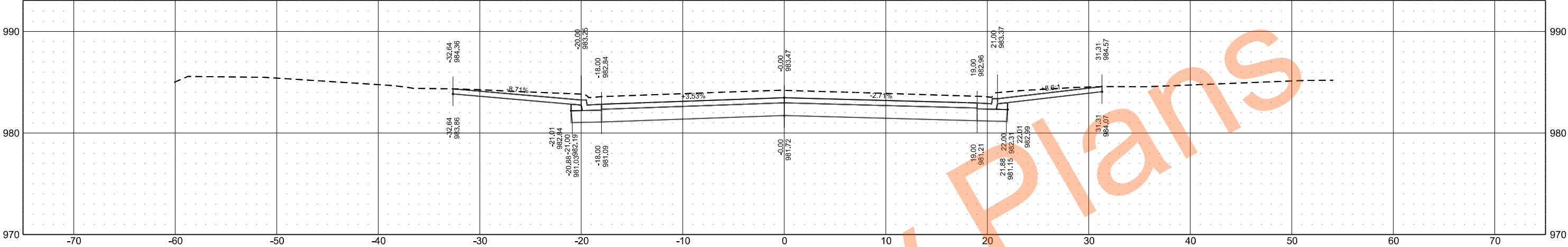
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NH-8-018(111)121

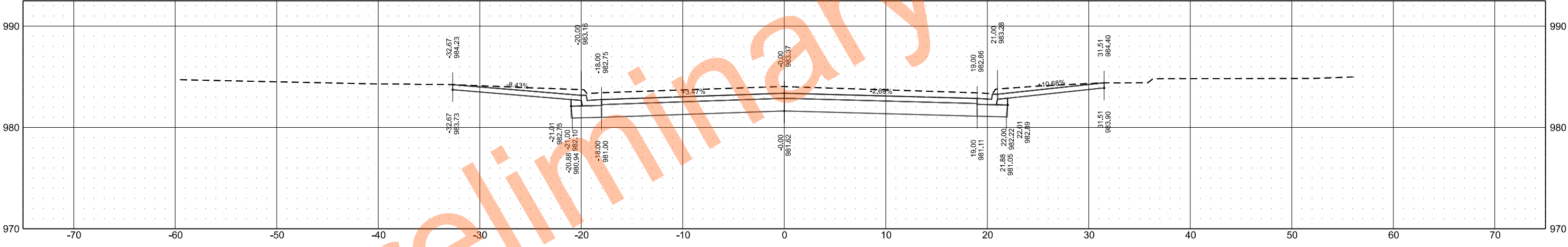
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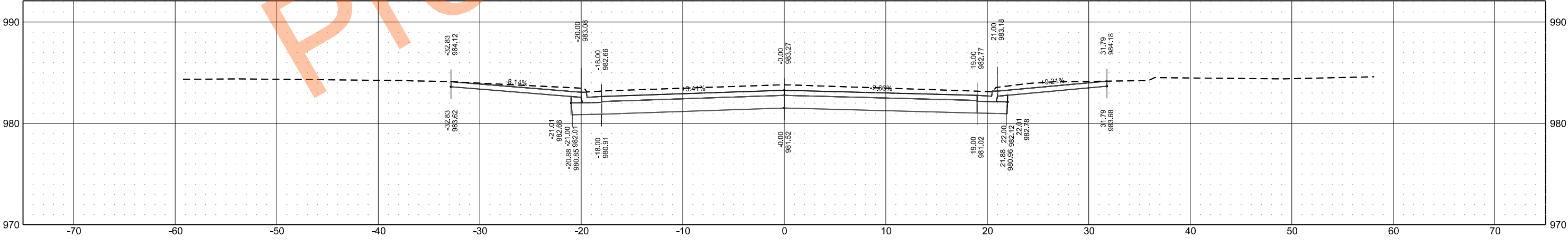
Sta 6553+75.00



Sta 6553+50.00



Sta 6553+25.00



OCL_HWY_200

Parke Ave

STATE

PROJECT NO.

SECTION NO.

SHEET NO.

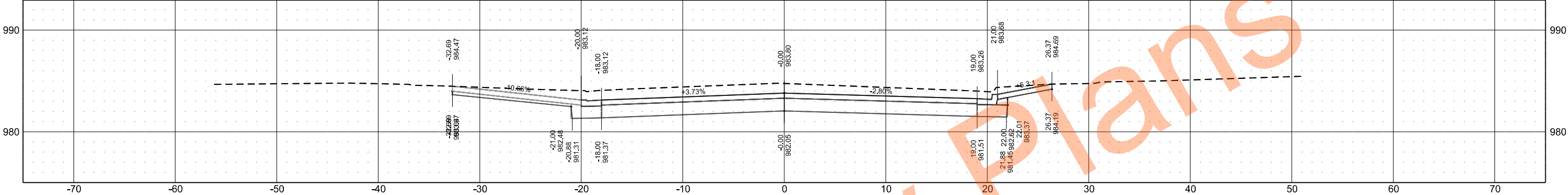
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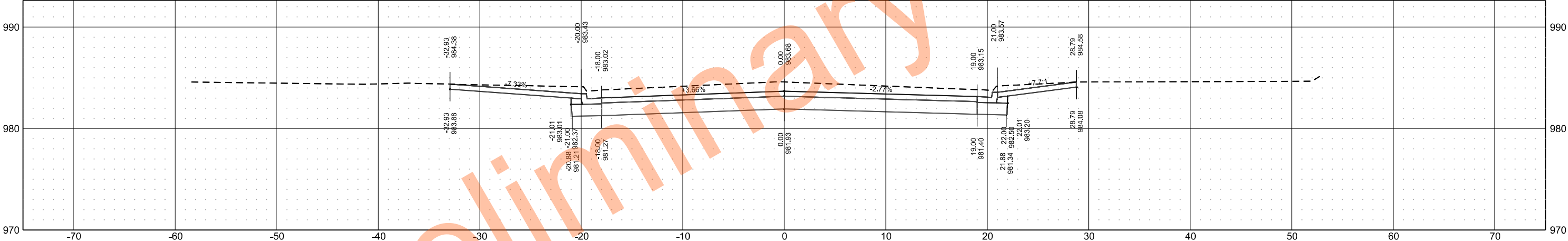
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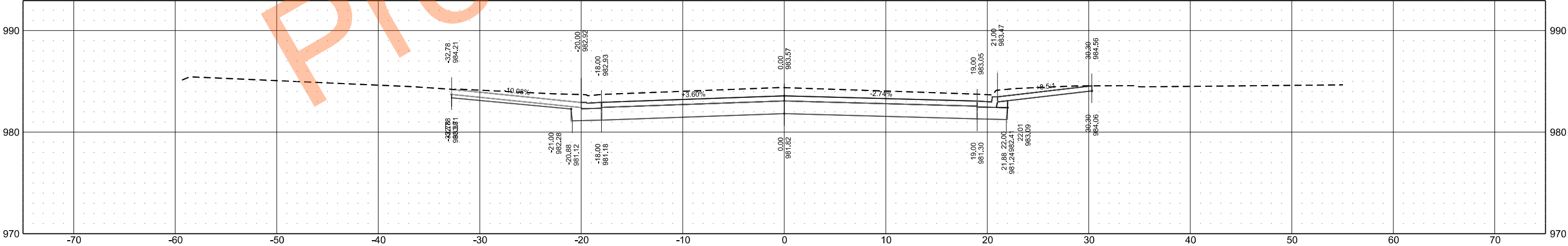
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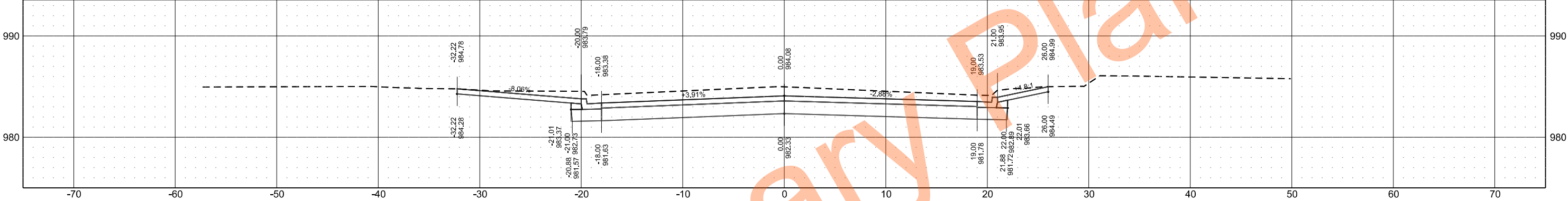
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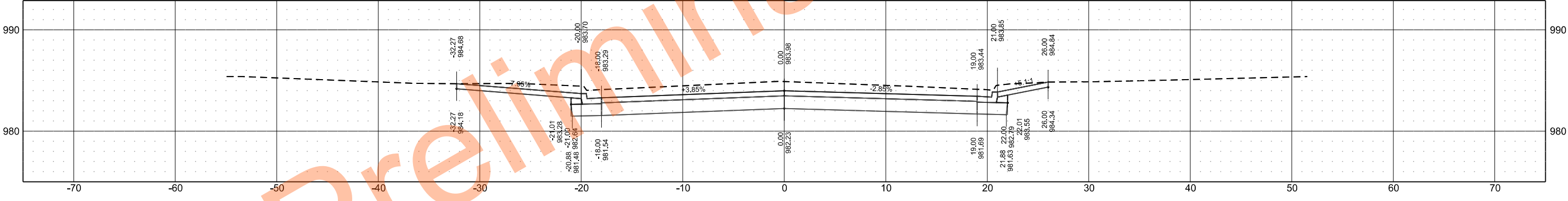
Sta 6554+00.00



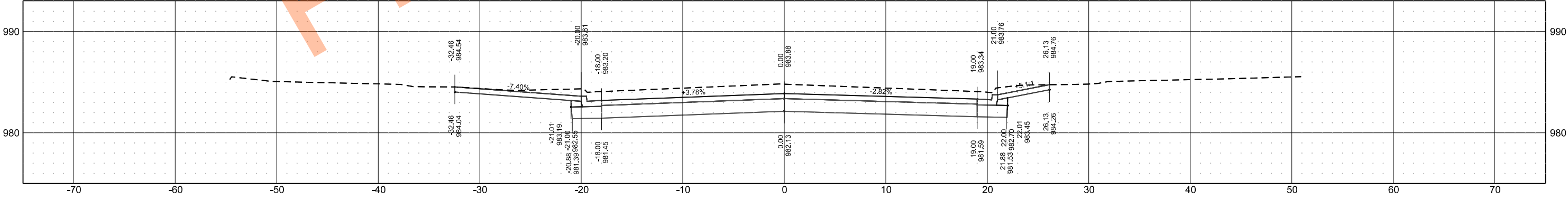
Sta 6555+25.00



Sta 6555+00.00



Sta 6554+75.00



OCL_HWY_200

Parke Ave

STATE

PROJECT NO.

SECTION NO.

SHEET NO.

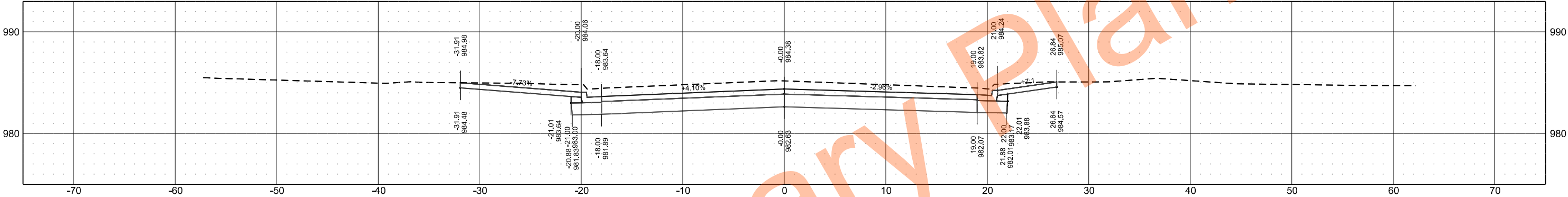
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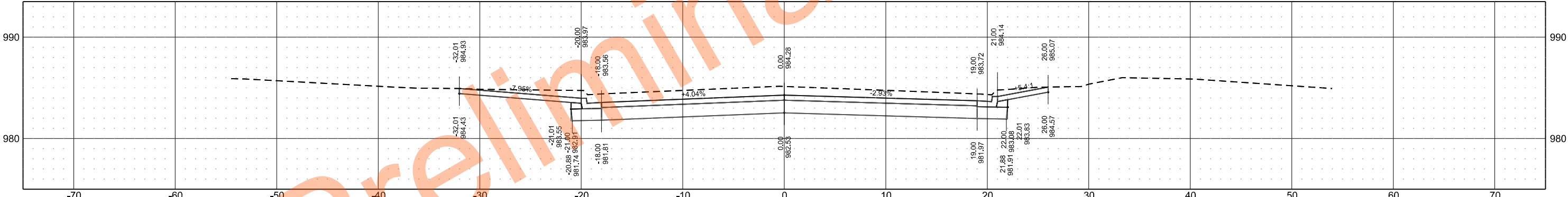
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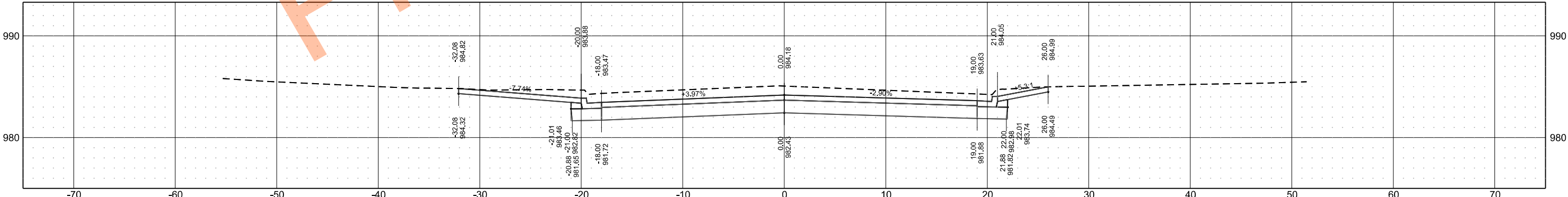
Sta 6556+00.00



Sta 6555+75.00



Sta 6555+50.00



OCL_HWY_200

Parke Ave

STATE

PROJECT NO.

SECTION NO.

SHEET NO.

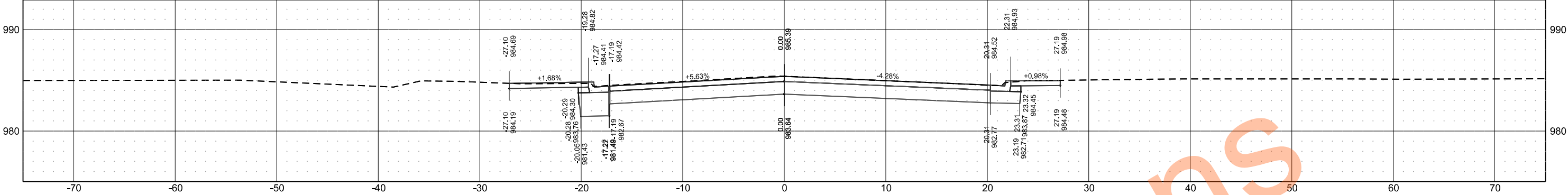
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NH-8-018(111)121

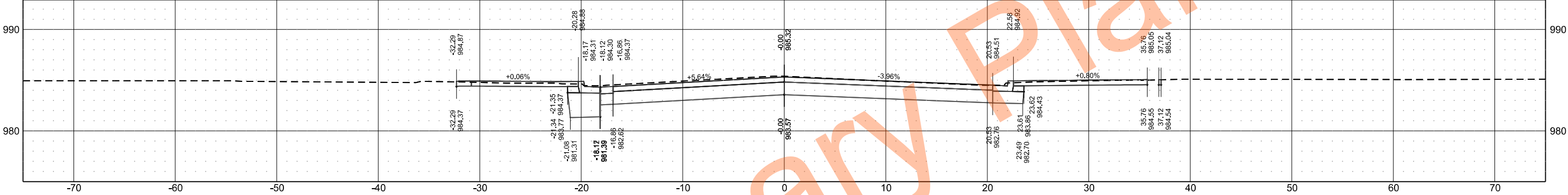
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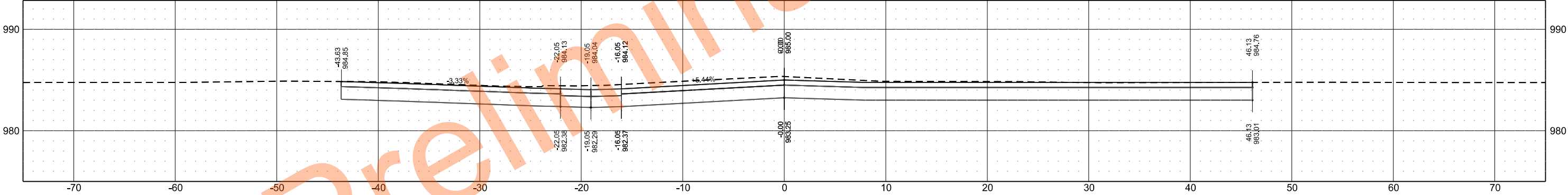
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Sta 6556+75.00



Sta 6556+50.00



Sta 6556+25.00

