



North Dakota Department of Transportation

Grant Levi, P.E.
Director

Jack Dalrymple
Governor

February 2, 2016

ADDENDUM 1 – JOB 6

TO: All prospective bidders on project SOIB-5-094(087)059, Job No. 6 scheduled for the February 5, 2016 bid opening.

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

Plan Revisions:

Remove and replace sheets 6-2, 6-3, 8-2, 8-3, 100-1, 130-11, 130-12 and 130-13 with the enclosed sheets revised 2/1/16.

Sheet 6-2:

Added "Phase 1 Jersey Barrier Pier Protection" paragraph to plan note 704-P01.

Sheet 6-3:

Revised Phase 2 lane closure distance to 11.2 miles in plan note 704-P01.

Sheet 8-2:

Item 704 1043 ATTENUATION DEVICE-TYPE B-65; 5 EA was added.

Sheet 8-3:

Items shifted due to added item on sheet 8-2.

Sheet 100-1:

Added item Attenuation Device-Type B-65

Sheet 130-11:

Revised note describing the PCC Pavement and base removals.

Sheet 130-12 and 130-13:

Revised section A-A, B-B and C-C to construct the jersey barrier slab flush with the existing PCC pavement. In addition, the HMA overlay is to be paved on top of the jersey barrier slab.

Request for Proposal Revisions:

Remove and replace page 7-9 of 11 of the Proposal pages located at the beginning of the Request for Proposal, with the enclosed page revised 2/2/2016.

Page 7 of 11:

Item 704 1043 ATTENUATION DEVICE-TYPE B-65; 5 EA was added.

Addendum 1
Job 6, February 5, 2016 Bid Opening
Page 2 of 2

Page 8-9 of 11:

Items shifted due to added items.

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

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

For 

CAL J. GENDREAU – CONSTRUCTION SERVICES ENGINEER

80:plm

Enclosure

BID ITEMS

Project: SOIB-5-094(087)059 (PCN-18921)

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

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$	000	\$\$\$\$	00
033	704	1018	LANE CLOSURE-SIGNAL CONTROL/FLAGGING CONTROL	EA	2.				
034	704	1037	ATTENUATION DEVICE-TYPE B-35	EA	2.				
035	704	1039	ATTENUATION DEVICE-TYPE B-45	EA	2.				
036	704	1043	ATTENUATION DEVICE-TYPE B-65	EA	5.				
037	704	1045	ATTENUATION DEVICE-TYPE B-75	EA	1.				
038	704	1050	TYPE I BARRICADE	EA	25.				
039	704	1052	TYPE III BARRICADE	EA	16.				
040	704	1060	DELINEATOR DRUMS	EA	147.				
041	704	1067	TUBULAR MARKERS	EA	452.				
042	704	1080	STACKABLE VERTICAL PANELS	EA	50.				
043	704	1087	SEQUENCING ARROW PANEL-TYPE C	EA	3.				
044	704	1500	OBLITERATION OF PAVEMENT MARKING	SF	438.				
045	704	3510	PRECAST CONCRETE MED BARRIER-STATE FURNISHED	EA	110.				
046	706	0400	FIELD OFFICE	EA	1.				
047	706	0550	BITUMINOUS LABORATORY	EA	1.				
048	706	0600	CONTRACTOR'S LABORATORY	EA	1.				

BID ITEMS

Project: SOIB-5-094(087)059 (PCN-18921)

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

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$\$	000	\$\$\$\$\$	00
049	714	0310	PIPE CONC REINF 18IN CL III	LF	6.				
050	714	9659	REMOVE & RELAY PIPE-ALL TYPES & SIZES	LF	48.				
051	714	9660	REMOVE & RELAY END SECTION-ALL TYPE & SIZES	EA	2.				
052	748	0141	CURB & GUTTER-TYPE 1 SPECIAL	LF	388.				
053	760	0005	RUMBLE STRIPS - ASPHALT SHOULDER	MILE	22.				
054	762	0112	EPOXY PVMT MK MESSAGE	SF	128.				
055	762	0113	EPOXY PVMT MK 4IN LINE	LF	14,977.				
056	762	0114	EPOXY PVMT MK 6IN LINE	LF	85.				
057	762	0115	EPOXY PVMT MK 8IN LINE	LF	436.				
058	762	0117	EPOXY PVMT MK 24IN LINE	LF	324.				
059	762	0420	SHORT TERM 4IN LINE-TYPE R	LF	6,440.				
060	762	0426	SHORT TERM 24IN LINE-TYPE R	LF	66.				
061	762	0430	SHORT TERM 4IN LINE-TYPE NR	LF	83,600.				
062	762	0434	SHORT TERM 8IN LINE-TYPE NR	LF	11,640.				
063	762	0436	SHORT TERM 24IN LINE-TYPE NR	LF	654.				
064	762	1104	PVMT MK PAINTED 4IN LINE	LF	139,989.				

BID ITEMS

Project: SOIB-5-094(087)059 (PCN-18921)

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

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$	000	\$\$\$\$	00
065	762	1108	PVMT MK PAINTED 8IN LINE	LF	2,910.				
066	764	0131	W-BEAM GUARDRAIL	LF	505.				
067	764	0145	W-BEAM GUARDRAIL END TERMINAL	EA	9.				
068	764	0151	REMOVE W-BEAM GUARDRAIL & POSTS	LF	1,213.				
069	764	1050	RESET W-BEAM GUARDRAIL	LF	713.				
070	764	2080	REMOVE BOX BEAM GUARDRAIL	LF	382.				
071	764	2081	REMOVE END TREATMENT & TRANSITION	EA	9.				
072	770	0001	LIGHTING SYSTEM	EA	1.				
073	930	9534	MODIFY DECK DRAIN	EA	10.				
074	930	9694	GIRDER PATCHING	L SUM	1.				
075	980	0806	VERTICAL ROAD CLOSURE GATE-18FT	EA	1.				
076	980	0811	VERTICAL ROAD CLOSURE GATE-28FT	EA	1.				
077	980	0820	REMOVE ROAD CLOSURE GATE	EA	2.				
			TOTAL SUM BID						

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NOTES

570-P02 CONCRETE PAVEMENT REPAIR: An additional 10% is added to the quantities for "9 IN- Concrete Pavement Repair-Full Depth-Dowelled" and "Spall Repair-Partial Depth."

570-P03 JOINT SEALING: Do not seal any joints that are to be overlaid.

570-P04 CONCRETE PAVEMENT REPAIR: There is 4" of permeable stabilized aggregate base under the concrete pavement. 880 tons of Class 7 has been included in the quantities for replacing any permeable base material that gets damaged while removing the concrete pavement. Minimize damage to permeable base during removals.

704-200 PRECAST CONCRETE MEDIAN BARRIERS – STATE FURNISHED: Obtain 110 barriers from the NDDOT Maintenance Yard in Belfield. Return barriers to the NDDOT Maintenance Yard in Belfield.

Some 4 inch x 4 inch boards are available at the return location. Provide any additional 4 inch x 4 inch boards necessary to stack barriers. The boards will become property of the Department. Include the cost for boards in the contract unit price for "Precast Concrete Median Barrier - State Furnished".

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".

704-P01 TRAFFIC CONTROL DEVICES: Provide traffic control using the following layouts:

- D-704-15, Layout Type A for ramp mill and overlay.
- D-704-22, Layouts Type K and Type L for construction trucks hauling material.
- D-704-24, Layout Type R: For guardrail embankment and guardrail paving operations at 10th Avenue East. Delineator drums shall be provided in place of tubular markers.
- D-704-26, Layouts Type CC, EE, and GG
- D-704-27, For pavement marking operations
- D-704-49, For construction traffic median crossing
- D-704-56, For grinding shoulder rumble strips

The device list and plan sheets have been based on the following 2 phases:

Phase 1: 10th Avenue East Separation: Bridge Deck Overlay

A signal controlled lane closure has been provided for the two lane roadway. A quantity of 30 precast concrete median barriers and two B-35 attenuation devices have been provided for the lane closure. Place signs and devices in accordance with D-704-16 or D-704-17. (Devices have been provided in Phase 1, but the 10th Ave deck overlay can be completed in either phase.)

Phase 1: East Dickinson Interchange: Bridge Deck Overlay

A signal controlled lane closure has been provided for the two lane roadway. A quantity of 30 precast concrete median barriers and two B-45 attenuation devices have been provided for the lane closure. Place signs and devices in accordance with Sec 100 East Dickinson Interchange plan sheet. (Devices have been provided in Phase 1, but the East Dickinson interchange deck overlay can be completed in either phase.)

Phase 1: Green River Eastbound I-94 Bridge: Bridge Deck Overlay

A one-lane closure for the eastbound roadway has been provided for the bridge deck overlay. A quantity of 50 precast concrete median barriers and one B-75 attenuation device have been provided for the lane closure. Place signs and devices in accordance with D-704-18.

Phase 1: CPR & Girder Patching

Two one-lane closures have been provided to perform CPR & Girder Patching. Place signs and devices in accordance with D-704-35 & D-704-49. (Devices have been provided in Phase 1, but the girder patching can be completed in either phase.)

The CPR full-depth removal areas require vertical panels to be placed at 10 foot spacing on the centerline of the roadway until the concrete has been replaced. A minimum of two stackable vertical panels will be used at each full-depth removal area. Type I Barricades will be placed in front of each open area. The barricades shall not encroach onto the traffic lane. The quantity of 50 Stackable Vertical Panels and 25 Type I Barricades have been provided.

The contractor will be limited to 2, three mile long lane closure(s). There will be a minimum of 2 miles between the end of a lane closure and the advanced signing of the next lane closure.

Lane closures will only be allowed in areas where work is being performed and/or areas where concrete has not reached its required strength or curing time. Once the concrete has reached sufficient strength and has reached the required cure time, that portion of the lane closure shall be removed. The contractor shall schedule his activities to assure that all other related work needed to be completed before opening to traffic will be complete by the time that the concrete has reached sufficient strength and has reached the required cure time.

Phase 1: Jersey Barrier Pier Protection: The one lane closures used during CPR shall also be used when constructing the jersey barrier pier protection at ND 22 Interchange, 10th Avenue Separation, East Dickinson Interchange, Lehigh Separation & Green River Separation. After the jersey barrier pier protection is constructed, the contractor shall place an Attenuation Device Type B-65 (on the outside shoulder) at each of the five locations, prior to the guardrail and guardrail surfacing being constructed.

This document was originally issued and sealed by Chad Frisinger, Registration Number PE-4876, on 2/1/16 and the original document is stored at the North Dakota Department of Transportation.

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NOTES

Phase 2: HMA Overlay:

A one-lane closure has been provided to perform the HMA overlay of I-94. Place signs and devices in accordance with D-704-35 & D-704-49 (construction traffic median crossing). The quantities have been based on an 11.2 mile long lane closure.

If the lane closure is removed and uneven lanes exist, provide traffic control as specified in Section 704.04 O, "Traffic Control for Uneven Pavement". The Contractor shall maintain the one-lane closure for the driving or passing lane until the adjacent shoulder has been brought up even to the lane.

Ramp Milling and Paving: Traffic will not be allowed on any milled surface for more than 24 hours. Place signs and devices in accordance with Sec 100 Ramp Mill & Overlay Construction Signing Layout plan sheet. The quantities have been based on signing & devices for 4 ramps.

Shoulder work signing has been provided for the pipe repair locations. Place signs and devices in accordance with D-704-24 Type S.

706-P01 FIELD OFFICE: Provide a field office which meets the following requirements:

1. Minimum total area of 440 square feet
2. Indoor bathroom facilities and supplies.
3. Hookups for heat, electricity, sewer, and potable water.
4. Minimum cabinet space of 32 cubic feet
5. Minimum counter space of 40 square feet
6. Air conditioner with a minimum of 20,000 BTUs
7. Lighting with a minimum of 110 foot-candles
8. Supply a photocopier with enough toner to last the length of the project and with the following capabilities:
 - a. Printing;
 - b. Scanning; and
 - c. Producing 11 x 17 photocopies and prints.

Place the field office on the project, or as close to the project as possible. The Contractor is responsible for the pay for the following:

- Rental fees;
- Heating;
- Electrical;
- Sewer; and
- Potable water.

Make the field office available for occupancy one week before the start of the project. The Engineer will approve the location and the condition of the office. Do not remove the field office until the Engineer releases the field office.

The Engineer is responsible for the following items:

- Furnishing office equipment;
- Supplying paper; and
- Supplying and paying for internet service.

All requirements of the Field Office are subject to approval by the Engineer. Include the costs for the field office in the bid item "Field Office".

Schedule for Payments:

- 25% when set up on site.
- 50% when 30% of the work is complete.
- 75% when 60% of the work is complete.
- 100% when project is complete.

714-P01 PIPE REPAIR: Two locations of pipe repair are needed at the East Dickinson Interchange as shown in Sec 30. The pipe joints are untied and have separated near the culvert ends.

The cost of labor, equipment, and materials to perform the following work at the location of the pipe repairs will be included in the price bid for "Remove & Relay Pipe – All Types & Sizes" and "Remove & Relay End Section – All Types & Sizes".

1. Strip and stockpile the topsoil to its full depth from the pipe repair areas.
2. Remove and reset the end section and three lengths of pipe.
3. Backfill the pipe in accordance with D-714-27.
4. Add two pipe ties to each pipe joint.
5. Replace the topsoil on the disturbed areas.
6. Seed with Temporary Cover Crop and Class II seed mixture.

714-P02 SLOTTED MEDIAN DRAIN: One median drain repair is needed at RP 67.573 as shown in Sec 30. Replace the damaged slotted pipe median drain by replacing it with a new slotted pipe section

The cost of labor, equipment, and materials to perform the following work at the location of the median drain will be included in the price bid for "Pipe Conc Reinf 18" CL III".

1. Strip and stockpile the topsoil to its full depth from the median drain repair area.
2. Replace the damaged median drain.
3. Remove and reset pipe plug.
4. Reshape the disturbed area.
5. Replace the topsoil.
6. Seed with Temporary Cover Crop and Class II seed mixture.

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

762-P01 SHORT TERM PAVEMENT MARKING: Allow a 24 hour curing period on slurry seal before the application of "SHORT TERM 4IN LINE – TYPE NR" is installed.

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ESTIMATE OF QUANTITIES

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REVISED 02/01/2016

SPEC CODE	ITEM DESCRIPTION	UNIT	MAINLINE	TOTAL
-----	-----	-----	-----	-----
704	1037 ATTENUATION DEVICE-TYPE B-35	EA	2	2
704	1039 ATTENUATION DEVICE-TYPE B-45	EA	2	2
704	1043 ATTENUATION DEVICE-TYPE B-65	EA	5	5
704	1045 ATTENUATION DEVICE-TYPE B-75	EA	1	1
704	1050 TYPE I BARRICADE	EA	25	25
704	1052 TYPE III BARRICADE	EA	16	16
704	1060 DELINEATOR DRUMS	EA	147	147
704	1067 TUBULAR MARKERS	EA	452	452
704	1080 STACKABLE VERTICAL PANELS	EA	50	50
704	1087 SEQUENCING ARROW PANEL-TYPE C	EA	3	3
704	1500 OBLITERATION OF PAVEMENT MARKING	SF	438	438
704	3510 PRECAST CONCRETE MED BARRIER-STATE FURNISHED	EA	110	110
706	0400 FIELD OFFICE	EA	1	1
706	0550 BITUMINOUS LABORATORY	EA	1	1
706	0600 CONTRACTOR'S LABORATORY	EA	1	1
714	0310 PIPE CONC REINF 18IN CL III	LF	6	6
714	9659 REMOVE & RELAY PIPE-ALL TYPES & SIZES	LF	48	48
714	9660 REMOVE & RELAY END SECTION-ALL TYPE & SIZES	EA	2	2
748	0141 CURB & GUTTER-TYPE 1 SPECIAL	LF	388	388
760	0005 RUMBLE STRIPS - ASPHALT SHOULDER	MILE	22	22
762	0112 EPOXY PVMT MK MESSAGE	SF	128	128
762	0113 EPOXY PVMT MK 4IN LINE	LF	14,977	14,977
762	0114 EPOXY PVMT MK 6IN LINE	LF	85	85
762	0115 EPOXY PVMT MK 8IN LINE	LF	436	436
762	0117 EPOXY PVMT MK 24IN LINE	LF	324	324
762	0420 SHORT TERM 4IN LINE-TYPE R	LF	6,440	6,440
762	0426 SHORT TERM 24IN LINE-TYPE R	LF	66	66
762	0430 SHORT TERM 4IN LINE-TYPE NR	LF	83,600	83,600
762	0434 SHORT TERM 8IN LINE-TYPE NR	LF	11,640	11,640
762	0436 SHORT TERM 24IN LINE-TYPE NR	LF	654	654
762	1104 PVMT MK PAINTED 4IN LINE	LF	139,989	139,989
762	1108 PVMT MK PAINTED 8IN LINE	LF	2,910	2,910
764	0131 W-BEAM GUARDRAIL	LF	505	505

ESTIMATE OF QUANTITIES

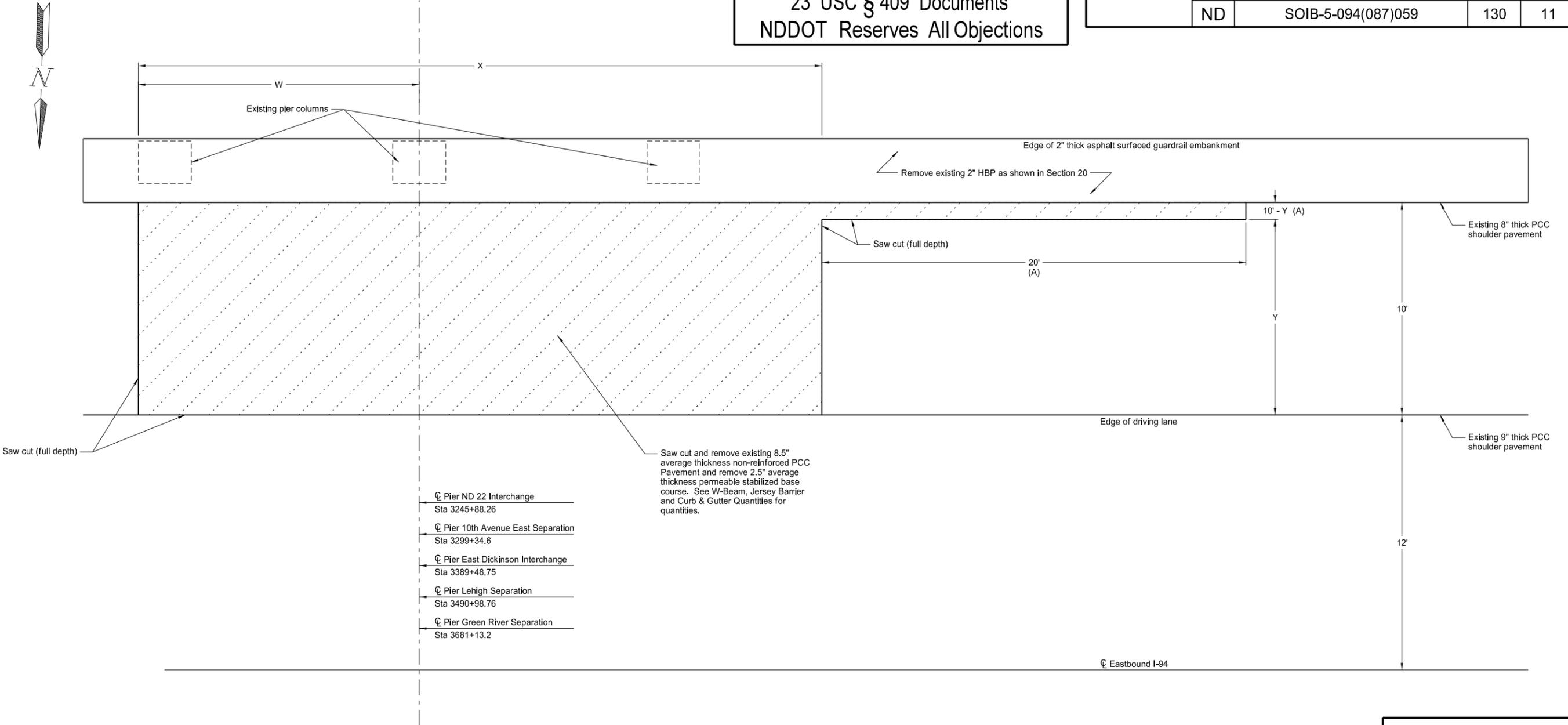
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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SPEC CODE	ITEM DESCRIPTION	UNIT	MAINLINE	TOTAL
-----	-----	-----	-----	-----
764	0145 W-BEAM GUARDRAIL END TERMINAL	EA	9	9
764	0151 REMOVE W-BEAM GUARDRAIL & POSTS	LF	1,213	1,213
764	1050 RESET W-BEAM GUARDRAIL	LF	713	713
764	2080 REMOVE BOX BEAM GUARDRAIL	LF	382	382
764	2081 REMOVE END TREATMENT & TRANSITION	EA	9	9
770	0001 LIGHTING SYSTEM	EA	1	1
930	9534 MODIFY DECK DRAIN	EA	10	10
930	9694 GIRDER PATCHING	L SUM	1	1
980	0806 VERTICAL ROAD CLOSURE GATE-18FT	EA	1	1
980	0811 VERTICAL ROAD CLOSURE GATE-28FT	EA	1	1
980	0820 REMOVE ROAD CLOSURE GATE	EA	2	2

23 USC § 409 Documents
NDDOT Reserves All Objections

Revised	2/1/16	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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(A) At locations where Y is greater than 10' there is no concrete removal, or saw cut, required for the curb at this location.

LOCATION	W	X	Y
ND 22 Interchange RP 61.476	34.92'	79.83'	10.21'
10th Avenue East Separation RP 62.486	13.25'	36.5'	10.21'
East Dickinson Interchange RP 64.204	19.5'	49'	9.29'
Lehigh Separation RP 66.118	7.5'	25'	9.63'
Green River Separation RP 69.714	7.5'	25'	9.31'

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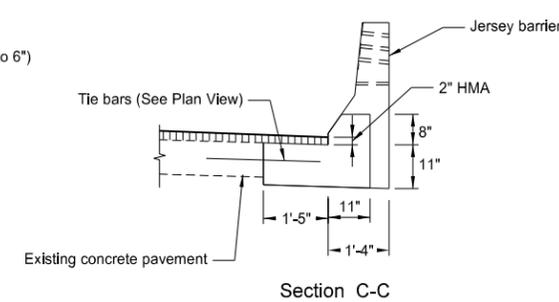
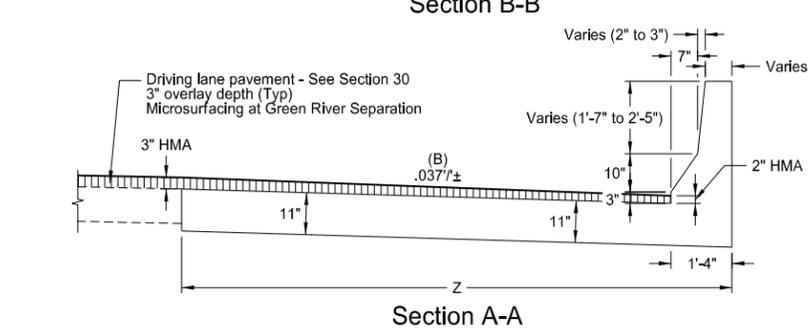
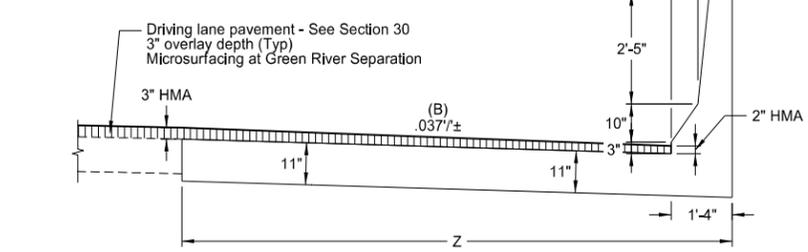
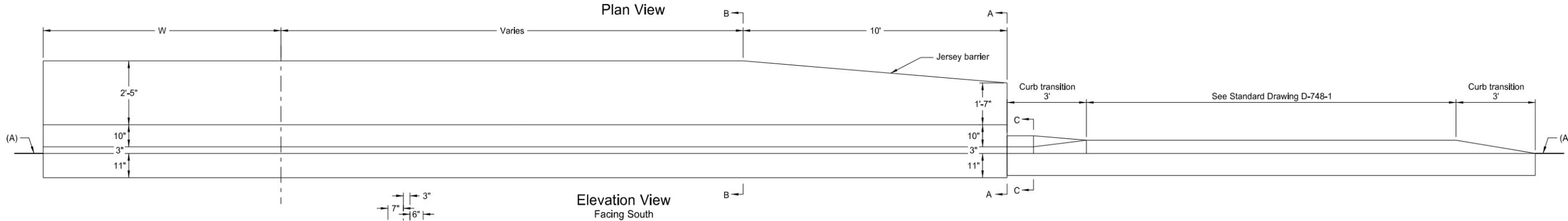
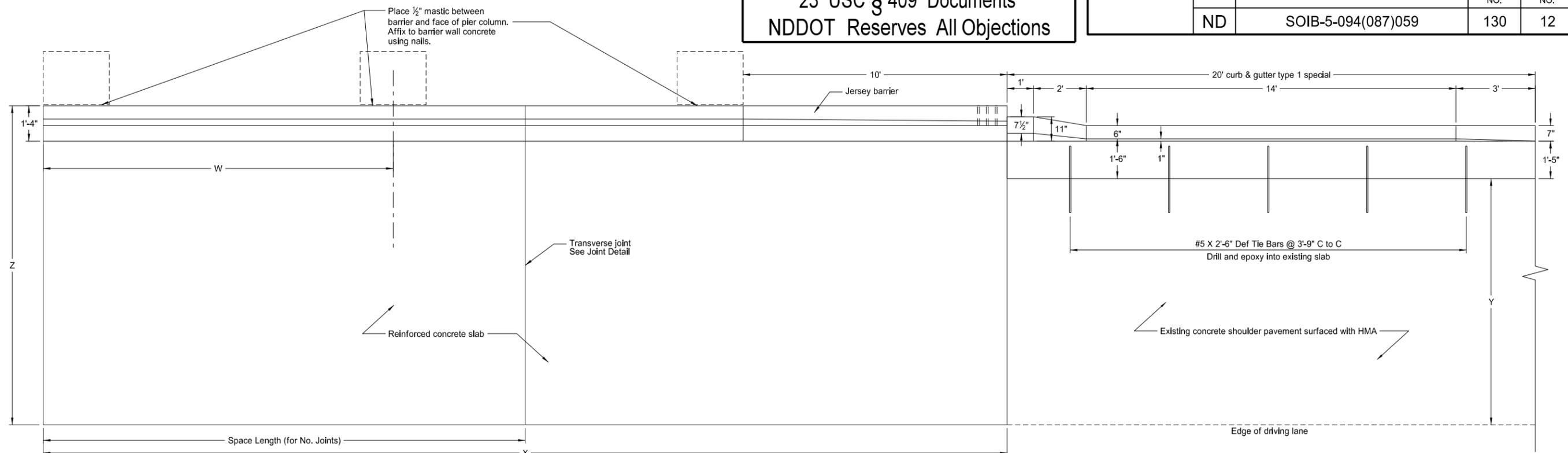
Removal of Shldr Pavement at Jersey Barrier Installations Outside Pier Protection

ND 22 Interchange, RP 61.476
10th Avenue East Separation, RP 62.486
East Dickinson Interchange, RP 64.204
Lehigh Separation, RP 66.118
Green River Separation, RP 69.714

Eastbound I-94

23 USC § 409 Documents
NDDOT Reserves All Objections

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LOCATION	W	X	Y	Z	Space Length	No. Joints
ND 22 Interchange RP 61.476	34.92'	79.83'	10.21'	12.96'	13.31'	5
10th Avenue East Separation RP 62.486	13.25'	36.5'	10.21'	12.96'	12.17'	2
East Dickinson Interchange RP 64.204	19.5'	49'	9.29'	12.04'	12.25'	3
Lehigh Separation RP 66.118	7.5'	25'	9.63'	12.38'	12.5'	1
Green River Separation RP 69.714	7.5'	25'	9.31'	12.06'	12.5'	1

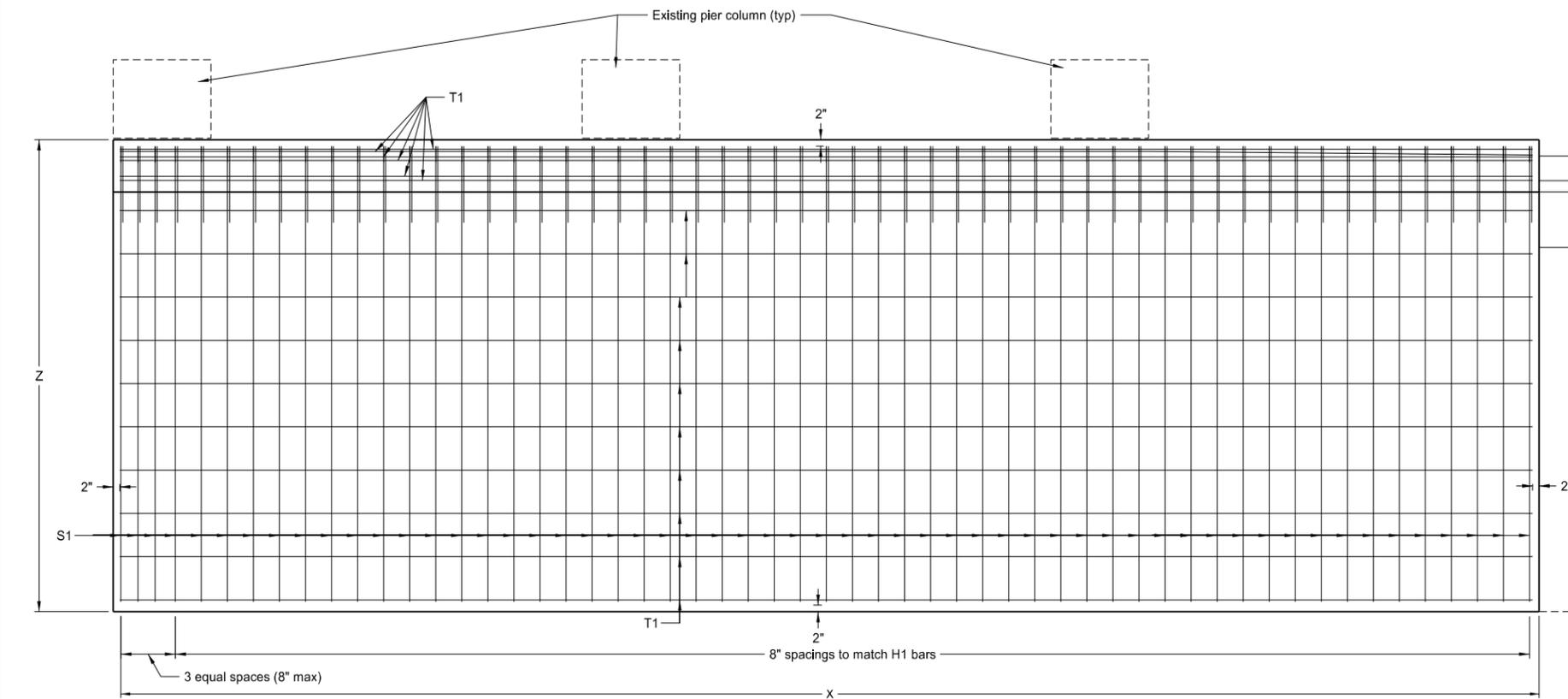
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- (A) Finished shoulder
- (B) The cross slope of the slab shall match the shoulder cross slope as near as possible. However, minor adjustment of the cross slope may be required to maintain drainage of the shoulder along the face of the barrier and curb.

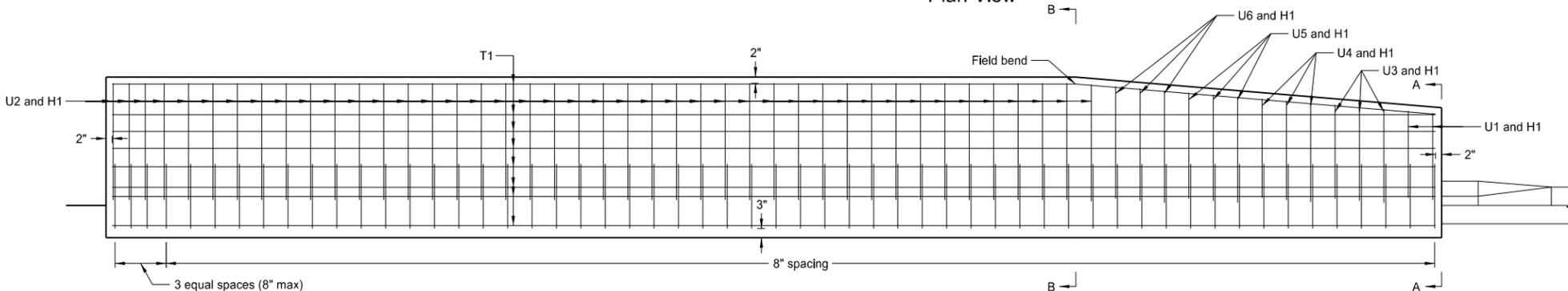
Jersey Barrier and Curb & Gutter Details Outside Pier Protection
 ND 22 Interchange, RP 61.476
 10th Avenue East Separation, RP 62.486
 East Dickinson Interchange, RP 64.204
 Lehigh Separation, RP 66.118
 Green River Separation, RP 69.714
 Eastbound I-94

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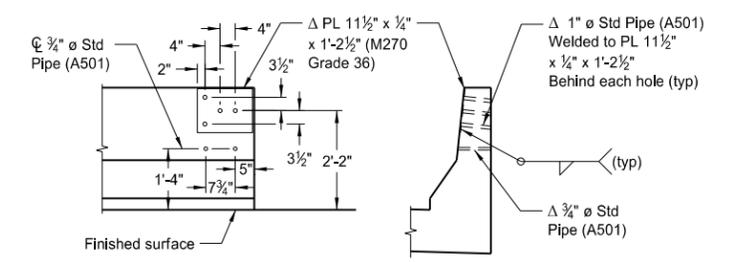
**23 USC § 409 Documents
NDDOT Reserves All Objections**



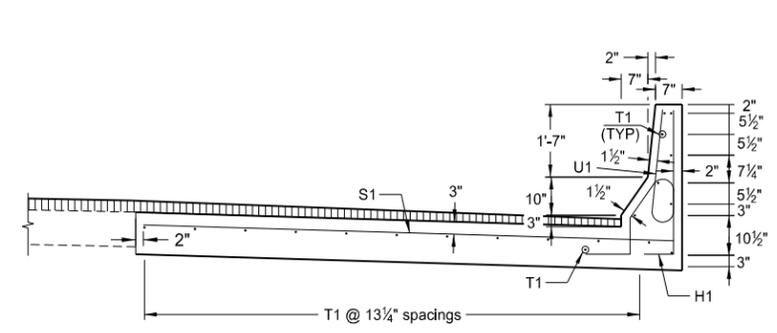
Plan View



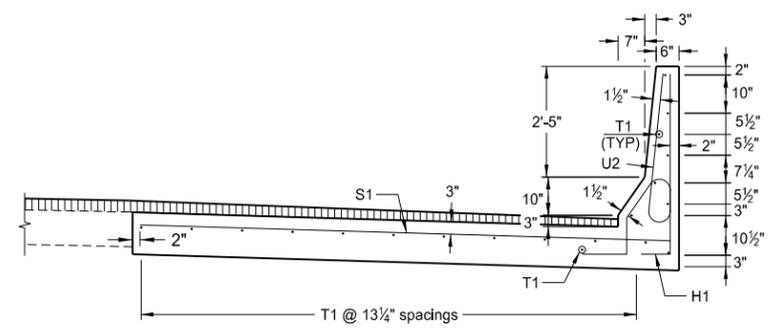
**Elevation View
Facing South**



Guardrail Connection Plate Details
At west end of barrier
(showing front face)



Section A-A



Section B-B

LOCATION	X	Z
ND 22 Interchange RP 61.476	79.83'	12.96'
10th Avenue East Separation RP 62.486	36.5'	12.96'
East Dickinson Interchange RP 64.204	49'	12.04'
Lehigh Separation RP 66.118	25'	12.38'
Green River Separation RP 69.714	25'	12.06'

**Jersey Barrier Details - Reinforcing Steel Layout
Outside Pier Protection**
ND 22 Interchange, RP 61.476
10th Avenue East Separation, RP 62.486
East Dickinson Interchange, RP 64.204
Lehigh Separation, RP 66.118
Green River Separation, RP 69.714
Eastbound I-94

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