



North Dakota Department of Transportation

Grant Levi, P.E.
Director

Jack Dalrymple
Governor

September 30, 2015

ADDENDUM 2 – JOB 6

TO: All prospective bidders on project IM-1-094(181)162, Job No. 6, scheduled for the October 9, 2015 bid opening.

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

Plan Revisions:

Remove and replace sheets 2-1, 6-1, 8-1, 10-1, 100-1, 120-3 and 120-8 with the enclosed sheets revised 9/28/2015.

Remove Standard Drawing D-706-1

Sheet 2-1:

Removed Standard Drawing D-706-1 Bituminous Laboratory

Sheet 6-1:

Note 420-P01 was renumbered to 421-P01.

Note 704-P01 FLAGGING was deleted.

Note 704-P02 was revised and renumbered to 704-P01.

Sheet 8-1 and 8-2:

Item 420 0146 COVER COAT MATERIAL CL 45; quantity decreased from 2497 to 1874 TON.

Item 704 1067 TUBULAR MARKERS; quantity increased from 750 to 1250 EA.

Item 762 0103 PVMT MK PAINTED-MESSAGE; 24 SF was added.

Item 762 0112 EPOXY PVMT MK MESSAGE; 24 SF was deleted.

Item 762 0113 EPOXY PVMT MK 4IN LINE; quantity decreased from 473,429 to 473,239 LF.

Item 762 0115 EPOXY PVMT MK 8IN LINE; quantity decreased from 3,655 to 3,574 LF.

Item 762 1104 PVMT MK PAINTED 4IN LINE; 190 LF was added.

Item 762 1108 PVMT MK PAINTED 8IN LINE; 81 LF was added.

Sheet 10-1:

Revised widths and quantity for EB/WB mainline Class 45. Revised EB/WB rest area pavement marking. Revised width for WB mainline asphalt emulsion.

Sheet 100-1:

Revised quantity for Tubular Markers

Sheet 120-3 and 120-8:
Revised blue epoxy pavement marking to non-epoxy.

Request for Proposal Revisions:

Remove and replace pages 7-8 of 10 of the Proposal pages located at the beginning of the Request for Proposal, with the enclosed pages revised 9/30/2015.

Page 7-8 of 10:

Item 420 0146 COVER COAT MATERIAL CL 45; quantity decreased from 2497 to 1874 TON.

Item 704 1067 TUBULAR MARKERS; quantity increased from 750 to 1250 EA.

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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.



CAL J. GENDREAU – CONSTRUCTION SERVICES ENGINEER

80:plm

Enclosure

BID ITEMS

Project: IM-1-094(181)162 (PCN-20905)

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
001	103	0100	CONTRACT BOND	L SUM	1.				
002	420	0111	CRS2P EMULSIFIED ASPHALT	GAL	85,973.				
003	420	0146	COVER COAT MATERIAL CL 45	TON	1,874.				
004	421	0011	AGGREGATE FOR MICROSURFACING TYPE III	TON	8,033.				
005	421	0020	ASPHALT EMULSION FOR MICROSURFACING	GAL	267,578.				
006	702	0100	MOBILIZATION	L SUM	1.				
007	704	0100	FLAGGING	MHR	600.				
008	704	1000	TRAFFIC CONTROL SIGNS	UNIT	2,658.				
009	704	1052	TYPE III BARRICADE	EA	24.				
010	704	1060	DELINEATOR DRUMS	EA	110.				
011	704	1067	TUBULAR MARKERS	EA	1,250.				
012	704	1087	SEQUENCING ARROW PANEL-TYPE C	EA	2.				
013	762	0100	PAVEMENT MARKING GROOVE	LF	432,221.				
014	762	0103	PVMT MK PAINTED-MESSAGE	SF	24.				
015	762	0113	EPOXY PVMT MK 4IN LINE	LF	473,239.				
016	762	0115	EPOXY PVMT MK 8IN LINE	LF	3,574.				

Revised 9/28/15

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	IM-1-094(181)162	2	1

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<u>Section No.</u>	<u>Sheet No.</u>	<u>Description</u>
1	1	Title Sheet
2	1	Table of Contents
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8	1	Quantities
10	1	Basis of Estimate
30	1-5	Typical Sections
60	1-8	Plan & Profile Sheets
100	1-3	Work Zone Traffic Control
120	1-10	Pavement Marking

LIST OF STANDARD DRAWINGS

<u>Standard No.</u>	<u>Description</u>
D-101-01 to D-101-32	Abbreviations, Linestyles, & Symbols
D-704-7,8	Breakaway Systems for Construction Zone Signs
D-704-9,10,11,12	Construction Sign Details
D-704-13	Barricade Details and Channelizing Devices
D-704-14	Construction Sign and Barricade Assembly Details
D-704-19,22,23,24,26	Construction Sign and Barricade Locations
D-704-27	Traffic Control Plan for Moving Operations
D-704-35	Sign Layout for One Lane Closure - Interstate System
D-704-50	Portable Sign Assembly
D-762-2	Interstate Pavement Marking 4 Lane Divided Highway
D-762-4	Pavement Marking
D-762-6	Short-Term Pavement Marking

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	IM-1-094(181)162	6	1

NOTES**GENERAL NOTES**

100-P01 WORK SCHEDULE: Conduct work activities during daylight hours only and schedule construction activities allow sufficient curing time at the end of the day to accommodate normal traffic before dark. Return traffic to normal driving lanes during non-working hours.

107-710 HAUL ROADS: Before submitting a proposal, contact the appropriate State, County, Township, or City officials to determine if there are any roadways that will be designated as "no haul routes".

108-P01 WORK PROGRESSION: Complete all microsurfacing before sand sealing the shoulders.

421-P01 MICROSURFACING EXCEPTION FOR ITS EQUIPMENT: Two Weigh In Motion (WIM) sites are located within this project. The first site is located at RP 165.0 on the eastbound roadway. The second site is located at RP 169.8 on the westbound roadway. A Fog Seal at the rate of 0.05 gal/SY shall be applied over the loop and sensor area. Micro Surfacing shall not be applied over this area. The area includes 200 feet before and 200 feet after the WIM sites and the entire width of the roadway. The Micro Surfacing shall not track onto the WIM equipment in the roadway.

704-P01 TRAFFIC CONTROL FOR MICROSURFACING: Provide traffic control consisting of a temporary lane closure and flagging.

Traffic control device quantities are based on a 10 mile limitation and the list below. Provide additional devices at no cost to the Department.

1. Standard D-704-12;
2. Standard D-704-22, layouts K and L;
3. Standard D-704-35, for pavement grooving, mainline pavement marking.
4. Standard D-704-27; for non-mainline pavement marking, optional for mainline edge line pavement marking.

762-P01 EPOXY PAVEMENT MARKINGS: The requirements of this note apply to mainline pavement markings placed using 762 contract items only.

Place epoxy pavement markings in a groove with a depth between 55 and 65 mils.

The Engineer will measure the application of epoxy material and glass beads under the contract item "Epoxy Pvmt Mk 4IN Line".

The Engineer will measure the construction of the groove under the contract item "Pavement Marking Groove".

965-P01 PVMT MK 4IN LINE – SPECIAL #1: This work consists of applying epoxy pavement markings and retroreflective optics.

Use equipment as specified in Section 762.02, "Equipment".

Use epoxy pavement marking paint as specified in the following sections:

- 880.02 A, "General";
- 880.03 B, "Epoxy Resin Material";
- 880.04 C, "Sampling Rate and Procedures"; and
- 880.04 E, "Packaging of Epoxy Components".

Prepare pavement surfaces as specified in Section 762.04 A.3, "Epoxy"

Conduct traffic control operations as specified in Section 762.04 B, "Traffic Control".

Apply pavement markings as specified in Section 762.04 C.3, "Epoxy Pavement Markings", with the following exception:

Apply retroreflective optics using a double drop system. The first drop shall consist of applying 3M Series 51E All Weather Elements at a rate of 5.3 pounds per gallon of paint. The second drop shall consist of applying the glass beads specified in Section 880.02 D at a rate of 20 pounds per gallon of paint.

Ensure that a representative from 3M is present during the application of the retroreflective optics.

The Engineer will measure as specified in Section 762.05, "Method of Measurement".

Include all costs for the work outlined including all materials, equipment, labor, and incidentals in the contract unit price for "Pvmt Mk 4 IN Line – Special #1".

This document was originally issued and sealed by Dean A. Schloss, Registration Number PE-5550, on 09/28/15 and the original document is stored at the North Dakota Department of Transportation.

ESTIMATE OF QUANTITIES

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	IM-1-094(181)162	8	1

REVISED 09/28/2015

SPEC CODE	ITEM DESCRIPTION	UNIT	MAINLINE	TOTAL
-----	-----	-----	-----	-----
103	0100 CONTRACT BOND	L SUM	1	1
420	0111 CRS2P EMULSIFIED ASPHALT	GAL	85,973	85,973
420	0146 COVER COAT MATERIAL CL 45	TON	1,874	1,874
421	0011 AGGREGATE FOR MICROSURFACING TYPE III	TON	8,033	8,033
421	0020 ASPHALT EMULSION FOR MICROSURFACING	GAL	267,578	267,578
702	0100 MOBILIZATION	L SUM	1	1
704	0100 FLAGGING	MHR	600	600
704	1000 TRAFFIC CONTROL SIGNS	UNIT	2,658	2,658
704	1052 TYPE III BARRICADE	EA	24	24
704	1060 DELINEATOR DRUMS	EA	110	110
704	1067 TUBULAR MARKERS	EA	1,250	1,250
704	1087 SEQUENCING ARROW PANEL-TYPE C	EA	2	2
762	0100 PAVEMENT MARKING GROOVE	LF	432,221	432,221
762	0103 PVMT MK PAINTED-MESSAGE	SF	24	24
762	0113 EPOXY PVMT MK 4IN LINE	LF	473,239	473,239
762	0115 EPOXY PVMT MK 8IN LINE	LF	3,574	3,574
762	0117 EPOXY PVMT MK 24IN LINE	LF	180	180
762	0430 SHORT TERM 4IN LINE-TYPE NR	LF	136,365	136,365
762	1104 PVMT MK PAINTED 4IN LINE	LF	190	190
762	1108 PVMT MK PAINTED 8IN LINE	LF	81	81
965	0301 PVMT MK 4IN LINE - SPECIAL #1	LF	27,022	27,022
965	0302 PVMT MK 4IN LINE - SPECIAL #2	LF	27,021	27,021
965	0310 PAVEMENT MARKING GROOVE - SPECIAL	LF	54,043	54,043

BASIS OF ESTIMATE

Revised 09/28/2015

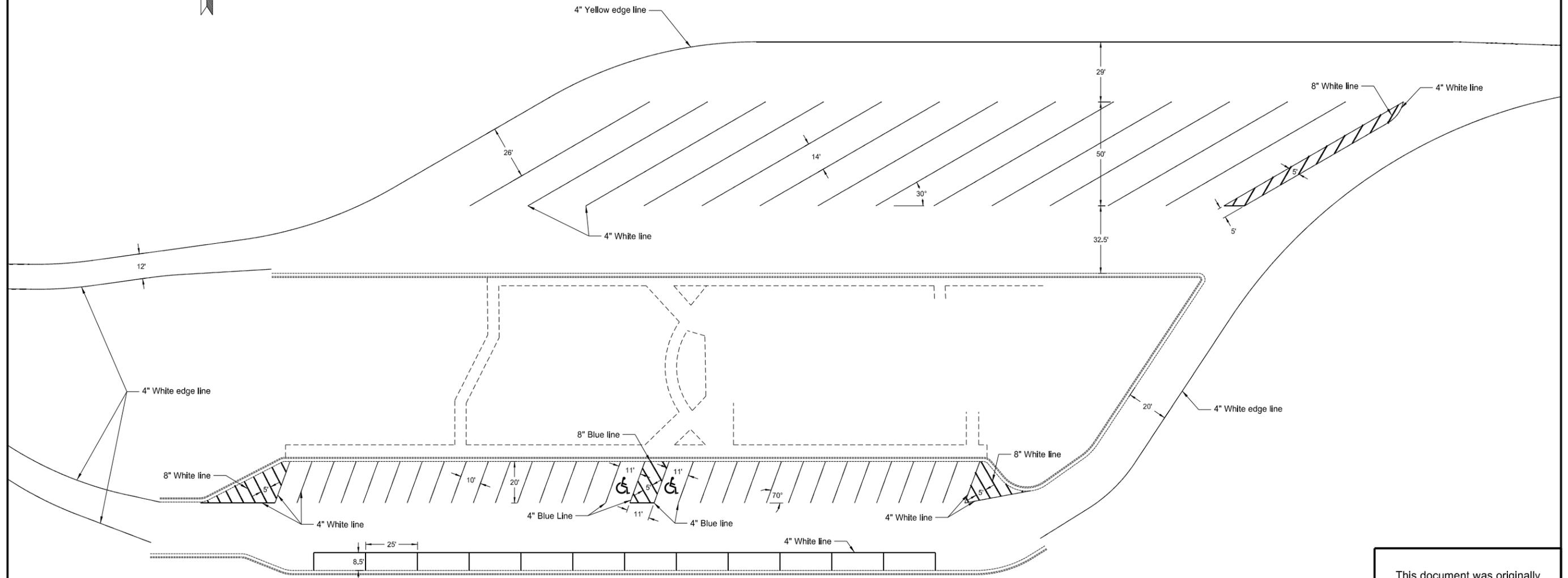
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	IM-1-094(181)162	10	1

Material	Unit	Eastbound Mainline			Westbound Mainline		
		Width (ft)	Quantity per Station	Total	Width (ft)	Quantity per Station	Total
Aggregate for Microsurfacing Type III (24 lb/SY)	Ton	24	3.2	3458	24	3.2	3460
Asphalt Emulsion for Microsurfacing (0.4 Gal/SY)	Gal	24	106.7	115250	24	106.7	115321
CL 45 Aggregate for Sand Seal (12 lb/SY)	Ton	13	0.87	937	13	0.87	937
Sand Seal Oil CRS-2P (0.2 Gal/SY)	Gal	17.7	39.3	43112	16.9	37.6	40650

Permanent Pavement Marking		
Mainline EB		
Location - Type	Basis	Quantity
Centerline Skips - PVMT MK 4IN LINE – SPECIAL #1	RP 173.000 to RP 182.868: 1,320 LF/mile	13026 LF
Centerline Skips - PVMT MK 4IN LINE – SPECIAL #2	RP 162.367 to RP 173.000: 1,320 LF/mile	13987 LF
Centerline Skips - PAVEMENT MARKING GROOVE – SPECIAL	1,320 LF/mile	27013 LF
Edge Lines – Epoxy Pvmt MK 4 IN Line	10,560 LF/mile	216163 LF
Edge Lines – Pavement Marking Groove	10,560 LF/mile	216163 LF
Mainline WB		
Location - Type	Basis	Quantity
Centerline Skips - PVMT MK 4IN LINE – SPECIAL #1	RP 162.360 to RP 173.000: 1,320 LF/mile	13996 LF
Centerline Skips - PVMT MK 4IN LINE – SPECIAL #2	RP 173.000 to RP 182.874: 1,320 LF/mile	13034 LF
Centerline Skips - PAVEMENT MARKING GROOVE – SPECIAL	1,320 LF/mile	27030 LF
Edge Lines – Epoxy Pvmt MK 4 IN Line	10,560 LF/mile	216058 LF
Edge Lines – Pavement Marking Groove	10,560 LF/mile	216058 LF
3 Interchanges (ramps)		
Epoxy Pvmt MK 4 IN Line - dotted	LF	1218 LF
Edge Lines – Epoxy Pvmt MK 4 IN Line	LF	13605 LF
Epoxy Pvmt MK 8 IN Line	LF	2910 LF
Epoxy Pvmt MK 24 IN Line	LF	180 LF
3 crossroads		
Centerline – Epoxy Pvmt MK 4 IN Line	Double Barrier Stripe 10,560 LF/mile	4400 LF
Edge Lines – Epoxy Pvmt MK 4 IN Line	10,560 LF/mile	3422 LF
Apple Creek Rest Area EB		
Epoxy Pvmt MK 4 IN Line	LF	8928 LF
Epoxy Pvmt MK 8 IN Line	LF	268 LF
Pvmt MK Painted 4 IN Line	LF	97 LF
Pvmt MK Painted 8 IN Line	LF	47 LF
Pvmt MK Painted-Message	SF	12 SF
Apple Creek Rest Area WB		
Epoxy Pvmt MK 4 IN Line	LF	9445 LF
Epoxy Pvmt MK 8 IN Line	LF	443 LF
Pvmt MK Painted 4 IN Line	LF	93 LF
Pvmt MK Painted 8 IN Line	LF	34 LF
Pvmt MK Painted-Message	SF	12 SF

Temporary 4 IN Line - Type NR		
Mainline EB		
Location - Type	Basis	Quantity
Centerline – 4 IN Line	Centerline Skips 1,320 LF/mile	54041 LF
Mainline WB		
Location - Type	Basis	Quantity
Centerline – 4 IN Line	Centerline Skips 1,320 LF/mile	54014 LF
3 crossroads		
Centerline – 4 IN Line	Centerline Skips 1,320 LF/mile	1100 LF
3 Interchanges (Ramps)		
Edge Lines – 4 IN Line	10,560/mile	27210 LF

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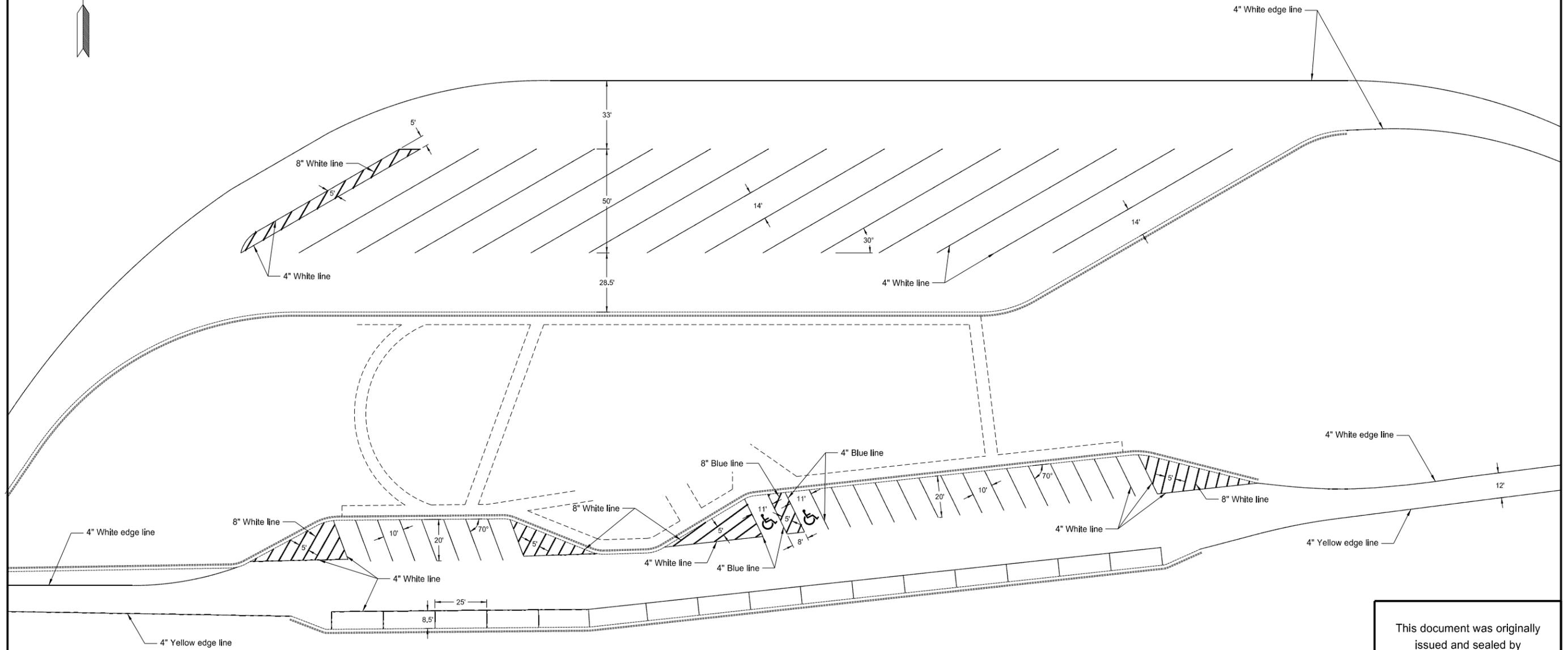


Pvmt Mk Painted-Message	
Wheelchair Symbol (2)	12 SF
Epoxy Pvmt Mk 4In Line	
4" White edge line	3117 LF
4" Yellow edge line	724 LF
Total	3841 LF
Pvmt Mk Painted 4In Line	
4" Blue line	97 LF
Total	97 LF

Epoxy Pvmt Mk 8In Line	
8" White line	268 LF
Total	268 LF
Pvmt Mk Painted 8In Line	
8" Blue line	47 LF
Total	47 LF

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Pavement Marking Layout
 Apple Creek Rest Area - EB



<u>Pvmt Mk Painted-Message</u>	
Wheelchair Symbol (2)	12 SF
<u>Epoxy Pvmt Mk 4In Line</u>	
4" White edge line	3895 LF
4" Yellow edge line	268 LF
Total	4163 LF
<u>Pvmt Mk Painted 4In Line</u>	
4" Blue line	93 LF
Total	93 LF

<u>Epoxy Pvmt Mk 8In Line</u>	
8" White line	443 LF
Total	443 LF
<u>Pvmt Mk Painted 8In Line</u>	
8" Blue line	34 LF
Total	34 LF

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Pavement Marking Layout
 Apple Creek Rest Area - WB