

Project Location
Map on Sheet A.2.

INDEX OF SHEETS	
No.	DESCRIPTION
A Sheets	Title Sheets
A.1	Title Sheet
A.2	Location Map Sheet
B Sheets	Typical Cross Sections and Details
B.1 - 5	Typical Cross Sections and Details
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C.1 - 3	Estimated Project Quantities & ERI Notes
C.4	Project Description
C.4	Standard Road Plans
C.4	Index of Tabulations
C.4 - 19	Tabulations (beg. with tab. of incidentals if needed)
D Sheets	Mainline Plan and Profile Sheets
D.1	Plan & Profile Legend & Symbol Information Sheet
D.2 - 11	"Mainline Name"
G Sheets	Survey Sheets
G.1	Construction Survey
J Sheets	Traffic Control and Staging Sheets
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J.2	Allowable Lane Closure Map
V Sheets	Bridge and Culvert Situation Plans
V.1 - 3	Bridge and Culvert Situation Plans



PLANS OF PROPOSED IMPROVEMENT ON THE
PRIMARY ROAD SYSTEM
POLK COUNTY
HMA Resurfacing
IA-163 to I-80

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.



REVISIONS

TOTAL	
43	
PROJECT IDENTIFICATION NUMBER	
25-77-065-050	
PROJECT NUMBER	
NHSX-065-4(181)--3H-77	
R.O.W. PROJECT NUMBER	

INDEX OF SEALS			
SHEET NO.	NAME	TYPE	BID QUANTITY SHEETS
A.1	Benjamin Adey	Primary Signature Block	C.1
V.1	Majellen C. Pitcher	Structural Design	V.1

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

6-30-2026

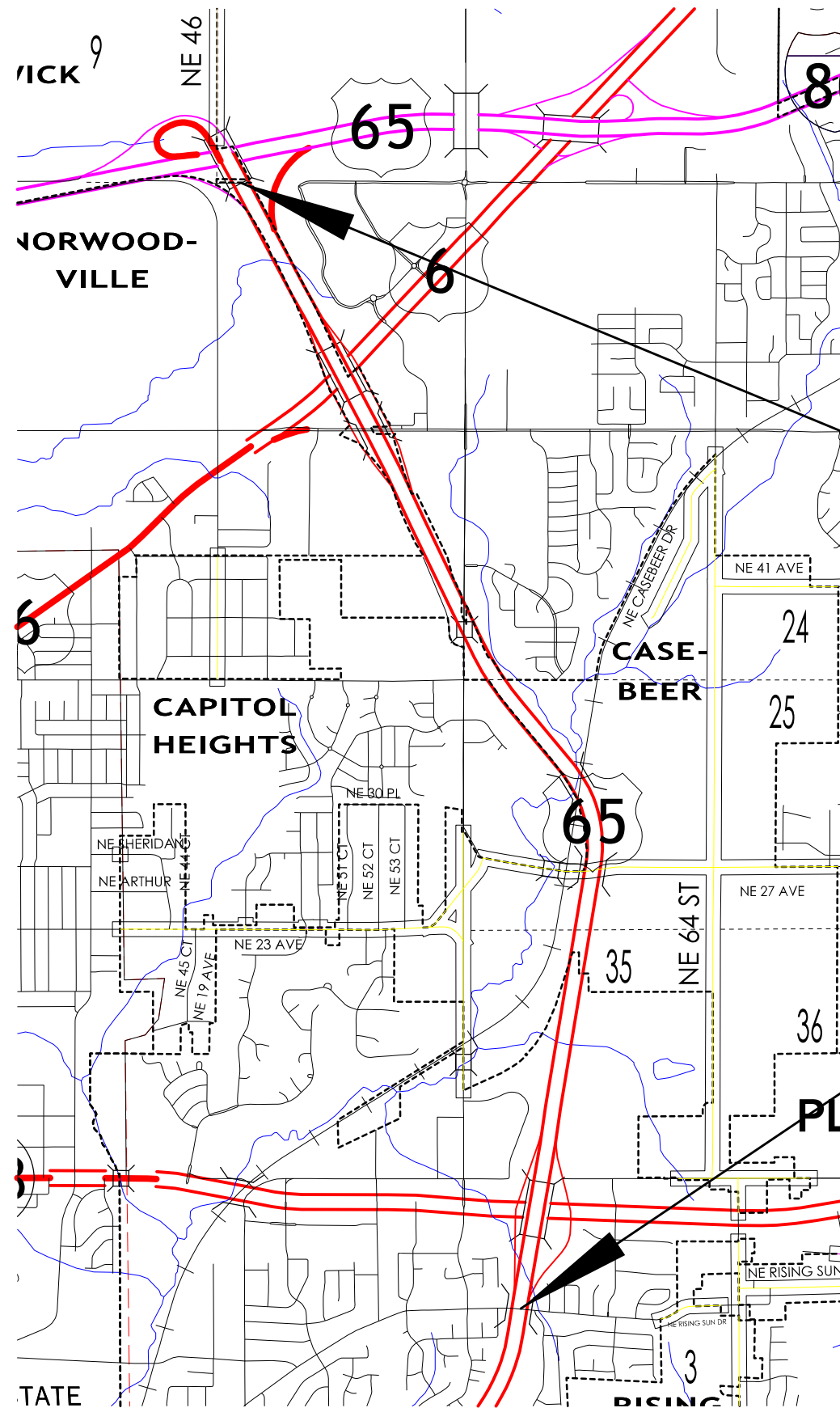
Signature

Benjamin Adey

Printed or Typed Name

My license renewal date is December 31, 2026

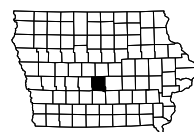
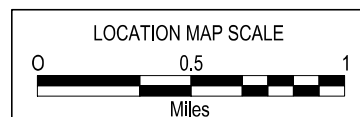
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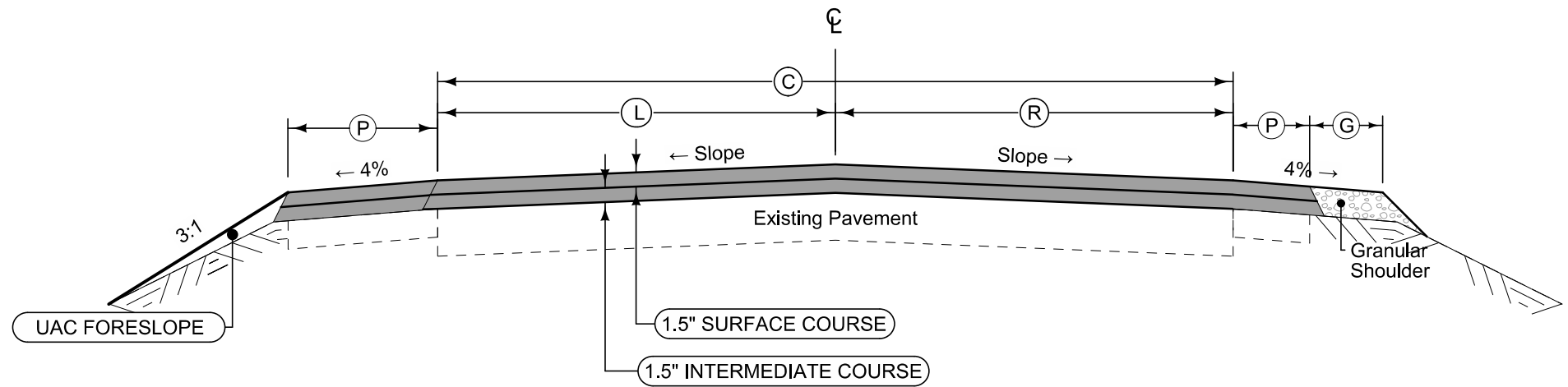


END CONSTRUCTION
EST. LOC. SIGN. 83.10

BEGIN CONSTRUCTION
EST. LOC. SIGN. 78.99

PL

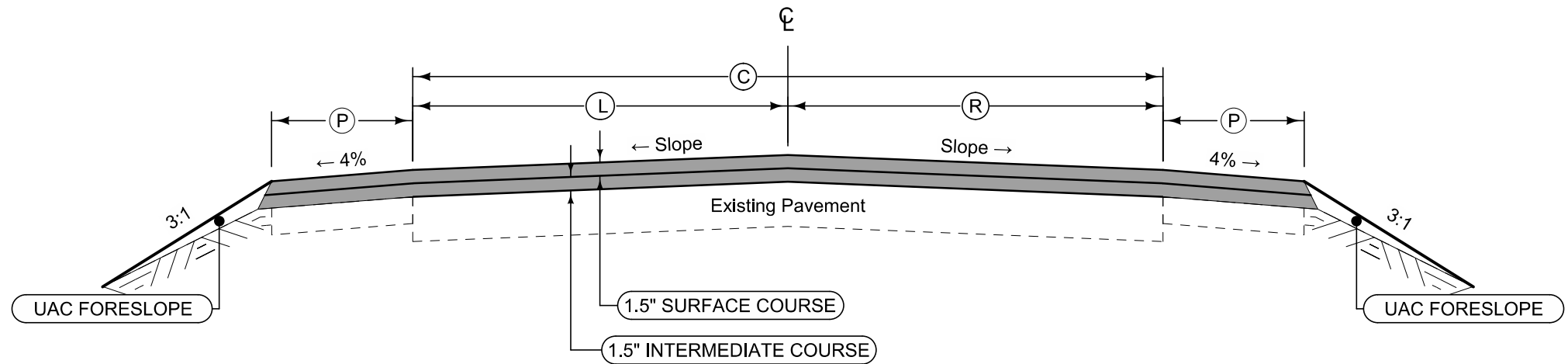




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STATION TO STATION		(P) Feet
417+80	666+17	6

3R_Overlay_ 04-19-11				
STATION TO STATION		(C) Feet	(L) Feet	(R) Feet
417+80	666+17	24	12	12

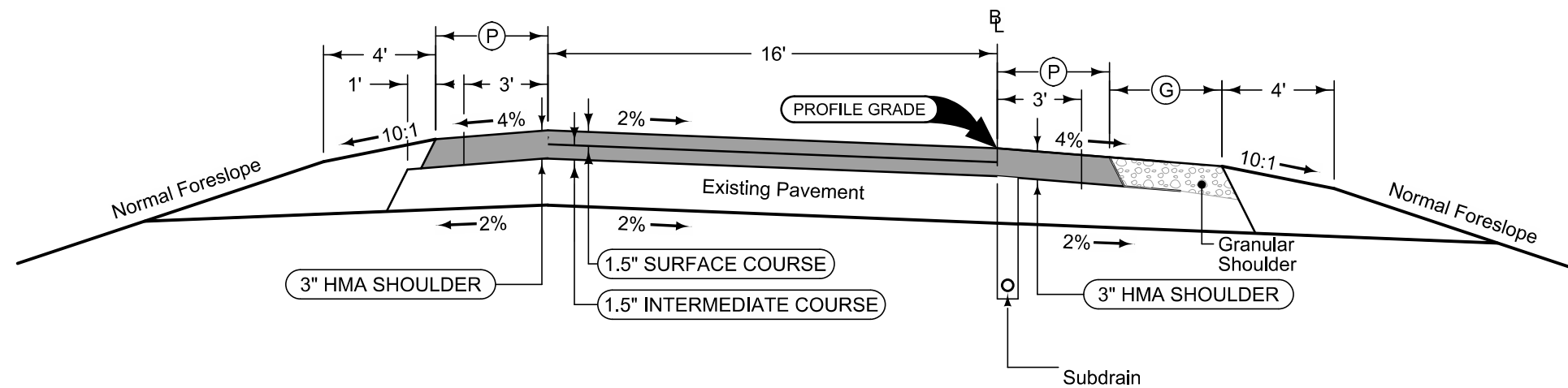
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3R_Shldr_P_Overlay_ 04-19-11		
STATION TO STATION		(P) Feet
417+80	663+00	6

3R_Overlay_ 04-19-11				
STATION TO STATION		(C) Feet	(L) Feet	(R) Feet
417+80	663+00	24	12	12

3R_Shldr_P_Overlay_ 04-19-11		
STATION TO STATION		(P) Feet
417+80	663+00	10



HMA Shoulder

Shoulder Jointing:
Longitudinal joint: B

1R_P_HMA_10-19-10		
BEGIN STATION	END STATION	(P) Feet
671+18	696+56.4	4

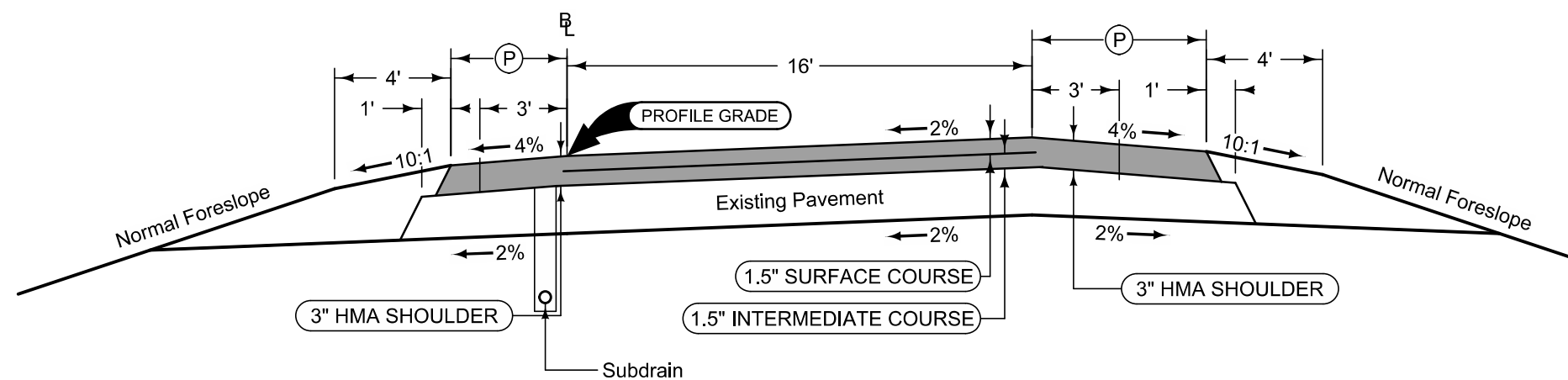
Section shown in direction of traffic (SB)

1RH_	
04-20-2	
BEGIN STATION	END STATION
671+18	696+56.4

HMA Shoulder

Shoulder Jointing:
Longitudinal joint: B

1R_P_HMA 10-19-10			
BEGIN STATION	END STATION	(P) Feet	(G) Feet
671+18	696+56.4	6	4



HMA Shoulder

Shoulder Jointing:
Longitudinal joint: B

1R_P_HMA_ 10-19-10		
BEGIN STATION	END STATION	(P) Feet
676+70	696+56.4	4

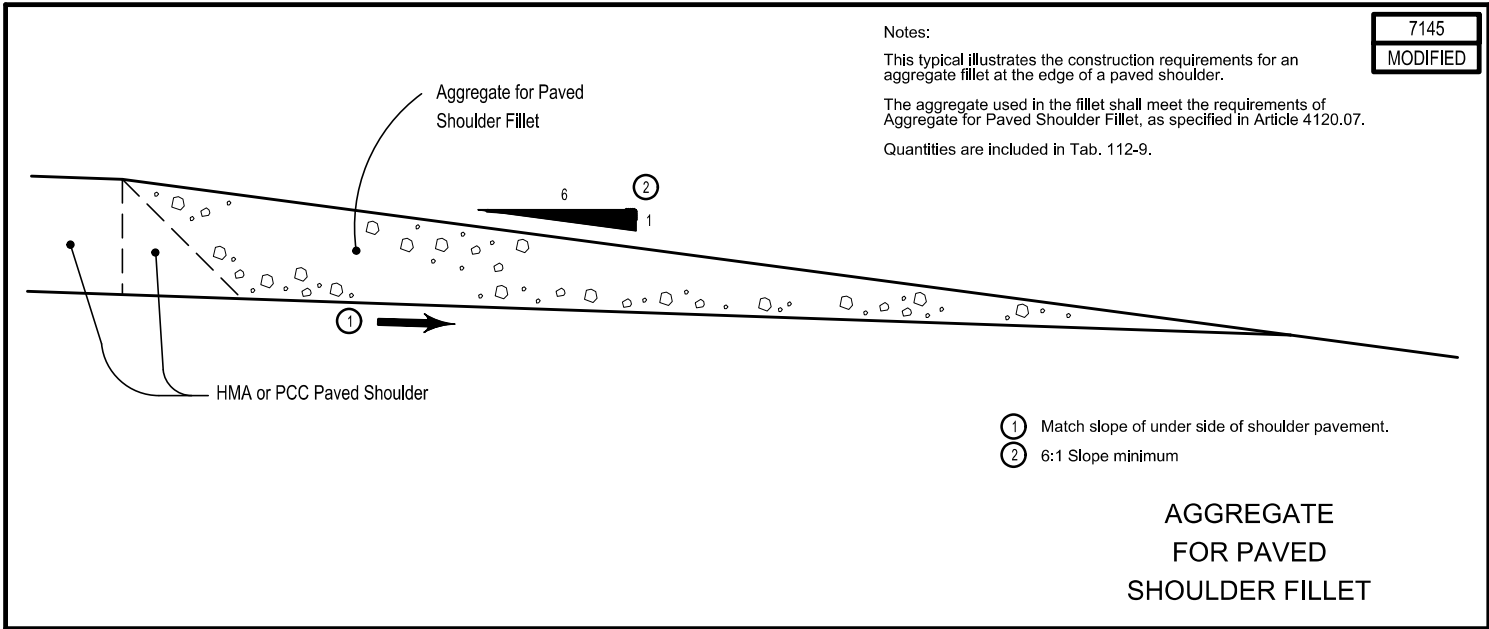
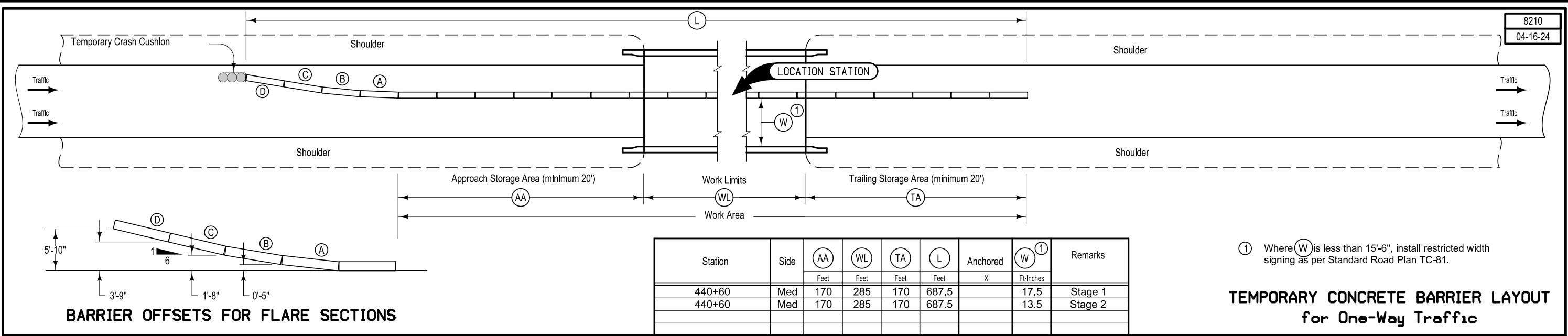
Section shown in direction of traffic (NB)

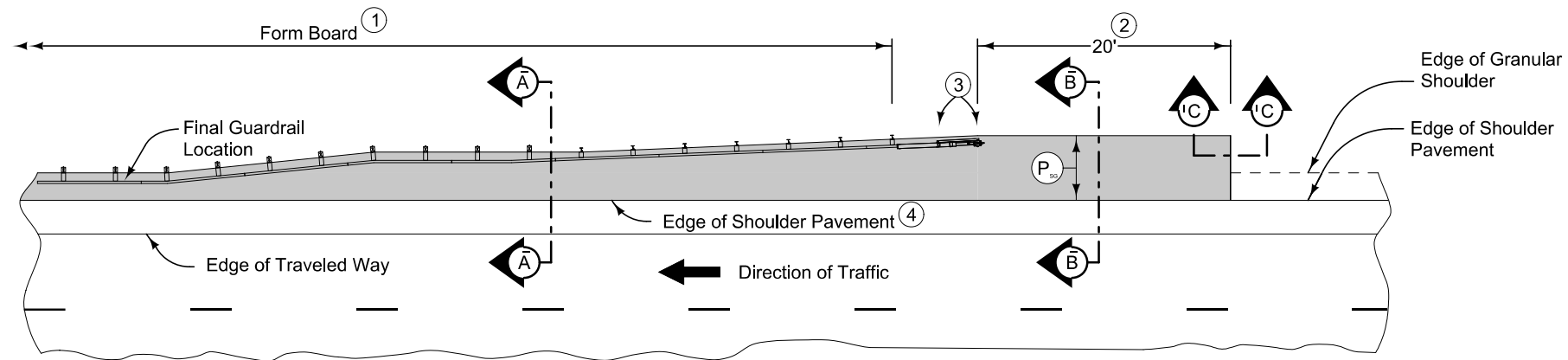
1RH_	
04-20-2	
BEGIN STATION	END STATION
676+70	696+56.4

HMA Shoulder

Shoulder Jointing:
Longitudinal joint: B

1R_P_HMA 10-19-1		
BEGIN STATION	END STATION	(P) Fee
676+70	696+56.4	6





PLAN VIEW

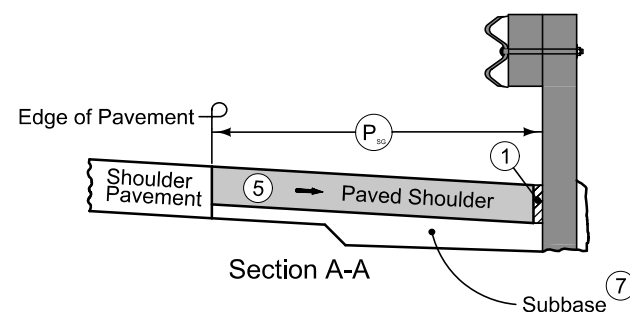
8" HMA Paved Shoulder at guardrail. 8" PCC may be substituted with the following jointing layout:

Match mainline pavement joint spacing. When mainline pavement is 8" or greater in thickness, place additional transverse 'C' joints in shoulder at mid-panel of the mainline pavement. Place longitudinal 'C' joint at $P/2$ from edge of mainline pavement when P is greater than 10' wide. Terminate longitudinal joint at transverse joint less than 10' in length.

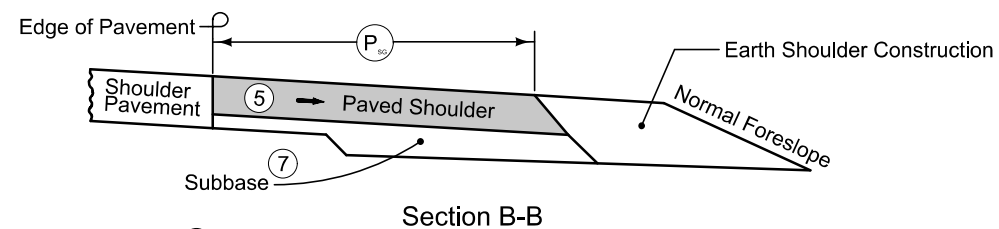
Compaction of HMA is required to face of guardrail post. Hand compaction will be allowed under guardrail. Removal and reinstallation of guardrail will be allowed with no additional payment.

Refer to Tabulation 112-9 for shoulder quantities.

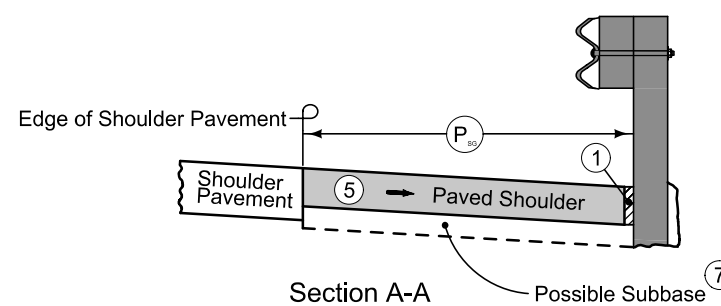
- ① PCC option only: When guardrail posts are installed prior to construction of PCC paved shoulder, fasten form board to the face of guardrail posts for the length shown.
- ② Continue paved shoulder 20 feet beyond the center of the first post.
- ③ Shoulder may be notched for first 2 posts or post sleeves may be installed through pavement. Do not drive posts through pavement.
- ④ 'BT' (per PV-101) joint for PCC shoulder.
'B' (per PV-101) joint for HMA shoulder.
- ⑤ Match shoulder slope.
- ⑥ The Contractor has the option to pave the paved shoulder at guardrail and the partial width paved shoulder as one operation.
- ⑦ Refer to other details in the plan.



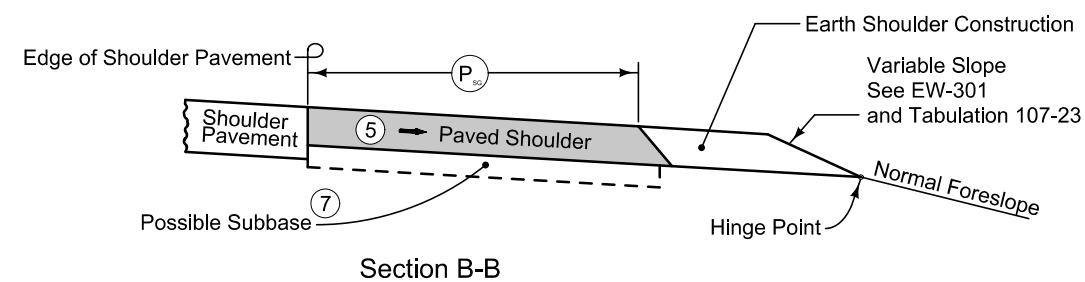
NEW CONSTRUCTION



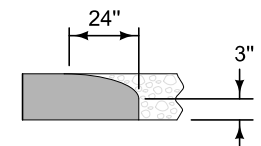
Section B-B

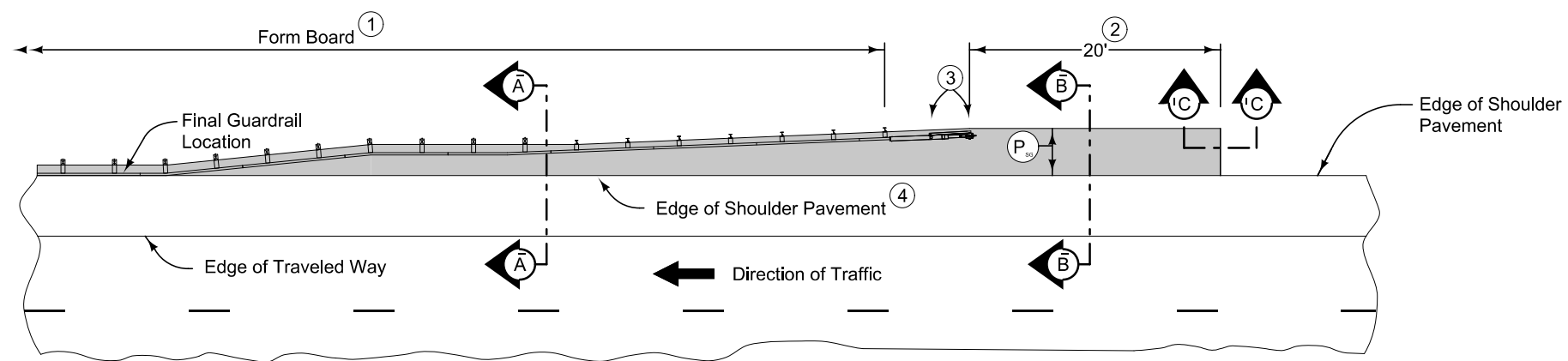


EXISTING SHOULDER



Section B-B

Section C-C
Roll down at granular shoulder or earth.PAVED SHOULDER AT GUARDRAIL
(ADJACENT TO PARTIAL WIDTH PAVED SHOULDER)



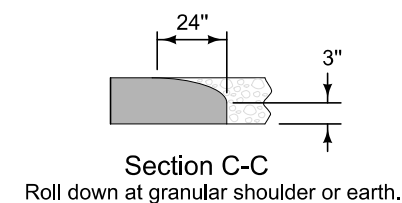
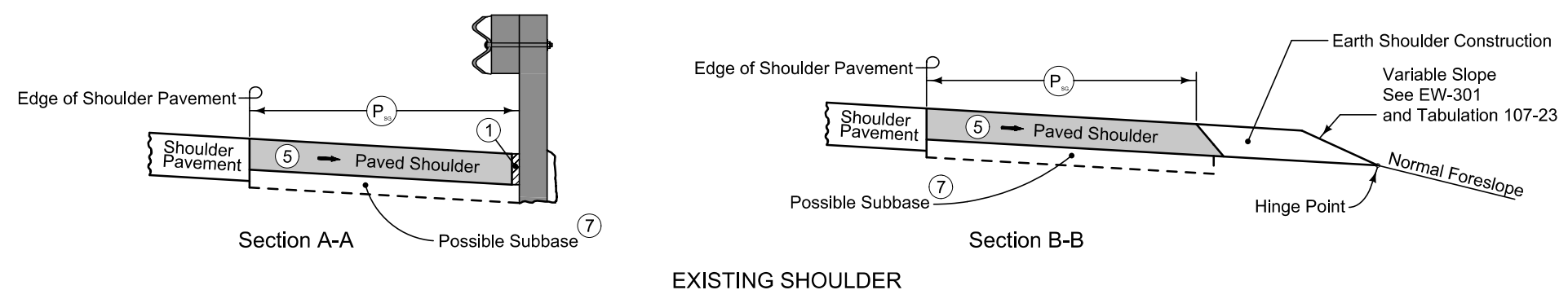
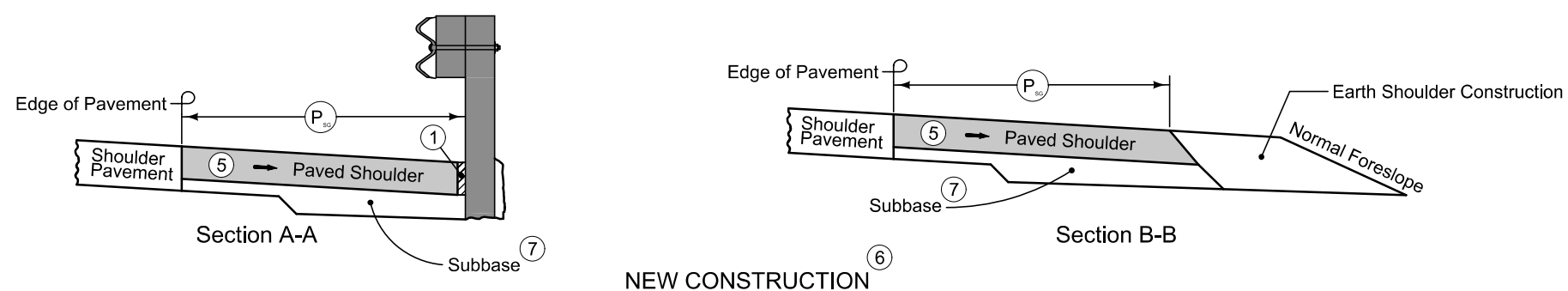
8" HMA Paved Shoulder at guardrail. 8" PCC may be substituted with the following jointing layout:

Match mainline pavement joint spacing. When mainline pavement is 8" or greater in thickness, place additional transverse 'C' joints in shoulder at mid-panel of the mainline pavement. Place longitudinal 'C' joint at P/2 from edge of mainline pavement when P is greater than 10' wide. Terminate longitudinal joint at transverse joint less than 10' in length.

Compaction of HMA is required to face of guardrail post. Hand compaction will be allowed under guardrail. Removal and reinstallation of guardrail will be allowed with no additional payment.

Refer to Tabulation 112-9 for shoulder quantities.

- ① PCC option only: When guardrail posts are installed prior to construction of PCC paved shoulder, fasten form board to the face of guardrail posts for the length shown.
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- ④ 'BT' (per PV-101) joint for PCC shoulder.
'B' (per PV-101) joint for HMA shoulder.
- ⑤ Match shoulder slope.
- ⑥ The Contractor has the option to pave the paved shoulder at guardrail and the full width paved shoulder as one operation.
- ⑦ Refer to other details in the plan.



PAVED SHOULDER AT GUARDRAIL
(ADJACENT TO FULL WIDTH PAVED SHOULDER)

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Roadway Items : Roadway Items

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
1	2102-2713090	EXCAVATION, CLASS 13, WASTE	CY	121.3	Refer to Tab 112-9 for additional information. Dispose of excess material according to Article 1106.07 of the current specifications.
2	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	1,974.1	Refer to B Sheets and Tab 112-9 for additional information.
3	2122-5500080	PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 8 IN.	SY	1,772.5	Refer to Tab 112-9 for additional information. 545.8 SY of 8-inch paved shoulder for guardrail. 1126.7 SY of 8-inch paved shoulder for staging at the US 65 southbound bridge over IA 163.
4	2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA	14.8	Item is for earth shoulder construction adjacent to new paved shoulders at guardrail and the new bridge approaches. Refer to Tab 112-9 for additional information. Requires a minimum of 4 inches of topsoil. Place according to Article 2105.03,B of the Standard Specifications.
5	2212-0475095	CLEANING AND PREPARATION OF BASE	MILE	4.11	This bid item includes: 4.11 centerline miles of NB/SB four lane roadway. Cleaning and preparation of the ramps, tapers and gores shall be covered by the 4.11 centerline miles.
6	2212-5070310	PATCHES, FULL-DEPTH REPAIR	SY	3,071.6	Refer to Tab. 102-6C for additional information.
7	2212-5070330	PATCHES BY COUNT (REPAIR)	EACH	280	Refer to Tab. 102-6C for additional information. The existing right lane is 14' wide. The 2' outside of the right line shall be counted with the right lane patch area.
8	2212-5075001	HOT MIX ASPHALT SURFACE PATCHES	TON	164.4	Quantity estimated at 10 tons per lane mile. [10 Tons/Lane Mile * 4.11 Centerline Miles * 4 Lanes]
9	2214-5145150	PAVEMENT SCARIFICATION, NOMINAL THICKNESS	SY	9,775	Refer to Tab 102-16 for additional information.
10	2301-0690203	BRIDGE APPROACH, BR-203	SY	455.3	Refer to Tab 112-6 for additional information.
11	2303-1052500	HOT MIX ASPHALT VERY HIGH TRAFFIC, INTERMEDIATE COURSE 1/2 IN. MIX	TON	18,028.3	Refer to B Sheets and Tab. 100-25 for additional information.
12	2303-1053502	HOT MIX ASPHALT VERY HIGH TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION L-2	TON	18,028.3	
13	2303-1258285	ASPHALT BINDER, PG 58-28V, VERY HIGH TRAFFIC	TON	2,163.4	
14	2303-6911000	HOT MIX ASPHALT PAVEMENT SAMPLES	LS	1	
15	2303-7000610	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA MIXTURE LABORATORY VOIDS (FORMULA - BY PAY FACTOR)	EACH	36,056	

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
16	2303-7000620	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA MIXTURE FIELD VOIDS (FORMULA - BY PAY FACTOR)	EACH	36,056	
17	2317-7000120	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA PAVEMENT SMOOTHNESS (BY SCHEDULE)	EACH	53,328	
18	2416-0101036	REMOVE AND REINSTALL CONCRETE PIPE APRONS LESS THAN OR EQUAL TO 36 IN.	EACH	8	Refer to D Sheets for additional information. Count Includes the following: 1. 24" Apron at 439+90 2. 36" Apron at 461+40 3. 36" Apron at 467+90 4. 36" Apron at 487+50 5. 24" Apron at 512+50 6. 36" Apron at 535+76 7. 24" Apron at 538+50 8. 24" Apron at 561+00
19	2416-0101136	REMOVE AND REINSTALL CONCRETE PIPE APRONS GREATER THAN 36 IN.	EACH	2	Refer to D Sheets for additional information. Count includes the following: 1. 60" Apron at 555+98 2. 60" Apron at 643+60
20	2416-1541036	REMOVE AND REINSTALL RIGID PIPE CULVERT LESS THAN OR EQUAL TO 36 IN.	LF	24	Refer to D Sheets for Additional Information Length includes the following: 1. 8 LF of 24" RCP at 512+50 2. 8 LF of 36" RCP at 535+76 3. 8 LF of 24" RCP at 538+50
21	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL	LF	2,286	Refer to Tab 110-7A for additional information.
22	2505-4008300	STEEL BEAM GUARDRAIL	LF	2,387.5	Refer to Tab 108-8A and U Sheets for additional information.
23	2505-4008410	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION, BA-201	EACH	12	
24	2505-4021720	STEEL BEAM GUARDRAIL TANGENT END TERMINAL, BA-205	EACH	12	
25	2510-6745850	REMOVAL OF PAVEMENT	SY	1,449.3	Refer to Tab 110-1 and 102-5 for additional information.
26	2526-8285010	CONSTRUCTION SURVEY, MONUMENT PRESERVATION	LS	1	Coordinates of the centerline control points are provided within the "MONUMENT PRESERVATION" G Sheets.
27	2526-8285020	CONSTRUCTION SURVEY, CONTROL POINT SURVEY	LS	1	
28	2526-8285040	CONSTRUCTION SURVEY, LOCATION SURVEY	LS	1	
29	2527-9263137	PAINTED SYMBOLS AND LEGENDS, WATERBORNE OR SOLVENT-BASED	EACH	8	Item is for LLRW and RLRW Arrows during Stage 1 and 2. Refer to J Sheets and Tab 108-29 for additional information.

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
30	2527-9263181	PAVEMENT MARKINGS REMOVED	STA	26.9	Refer to Tab 108-22 for additional information.
31	2527-9263190	SYMBOLS AND LEGENDS REMOVED	EACH	8	Item is for LLRW and RLRW Arrows during Stage 1 and 2. Refer to J Sheets and Tab 108-29 for additional information.
32	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	2,884.75	Refer to Tab 108-22 for additional information.
33	2527-9270112	GROOVES CUT FOR PAVEMENT MARKINGS	STA	952.62	
34	2528-2518000	SAFETY CLOSURE	EACH	20	Item is for closure of ramps. Refer to J Sheets for additional information. Quantity assumes that each ramp will need a safety closure installed twice, once for the intermediate lift of HMA and once for the surface lift of HMA.
35	2528-8400048	TEMPORARY BARRIER RAIL, CONCRETE	LF	1,375	Refer to J Sheets and Tab 108-33 for additional information.
36	2528-8445110	TRAFFIC CONTROL	LS	1	Refer to J Sheets for additional information.
37	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDAY	0	See Proposal.
38	2529-2242304	CD JOINT ASSEMBLY	EACH	17	Refer to Tab. 102-6C for additional information.
39	2529-8201000	JOINT ASSEMBLY, EF	EACH	4	
40	2533-4980005	MOBILIZATION	LS	1	--
41	2548-0000100	MILLED SHOULDER RUMBLE STRIPS, HMA SURFACE	STA	994.8	Refer to Tab 112-10 for additional information.
42	2548-0000110	ASPHALT EMULSION FOR FOG SEAL (SHOULDER RUMBLE STRIPS)	GAL	1,077.8	
43	2551-0000130	TEMP CRASH CUSHION, SEVERE USE (SU)	EACH	2	Refer to J Sheets and Tab 108-30 for additional information.

REMOVAL OF PAVEMENT

TEMPORARY BARRIER RAIL

REMOVAL OF STEEL BEAM GUARDRAIL

- ## CRASH CUSHIONS

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FULL-DEPTH PATCHES

Possible Standards: PR-101, PR-102, PR-103, PR-104, PR-105, and PR-140.

Location				Dimension			PCC Patches				HMA Patches	Composite HMA	Subbase Patches	Subbase Patch w/ 'EF' Joint	Patch Subdrain	'CD' Joints	'CT' Joints	'EF' Joints	Anchor Lugs Removal	Remarks
Count	Mile Post	Reference Location Sign	Lane	Length	Width	Patch Thickness	With Dowels	Without Dowels	C R C	Ramp with Dowels										
							PR-103	PR-102	PR-104	PR-105										
			L, R, or B	FT	FT	IN	SY	SY	SY	SY	SY	TON	SY	SY	PR-101 or PR-140 No.	No.	No.	PR-101 No.	No.	
1	+83.77	SB	1	6.0	12.0	11.0	8.0													
1	+83.77	SB	1	6.0	12.0	11.0	8.0													
1	+83.75	SB	1	6.0	12.0	11.0	8.0													
1	+83.75	SB	1	6.0	12.0	11.0	8.0													
1	+83.74	SB	1	6.0	12.0	11.0	8.0													
1	+83.71	SB	1	6.0	12.0	11.0	8.0													
1	+83.70	SB	1	6.0	12.0	11.0	8.0													
1	+83.62	SB	1	6.0	12.0	11.0	8.0													
1	+83.61	SB	2	6.0	14.0	11.0	9.3													
1	+83.58	SB	1	6.0	12.0	11.0	8.0													
1	+83.45	SB	2	6.0	14.0	11.0	9.3													
1	+83.33	SB	2	6.0	14.0	11.0	9.3													
1	+83.32	SB	2	6.0	14.0	11.0	9.3													
1	+83.11	SB	2	8.0	14.0	11.0	12.4													
1	+81.73	SB	1	6.0	12.0	11.0	8.0													
1	+81.69	SB	2	6.0	14.0	11.0	9.3													
1	+81.67	SB	2	6.0	14.0	11.0	9.3													
1	+81.60	SB	1	6.0	12.0	11.0	8.0													
1	+81.56	SB	2	6.0	14.0	11.0	9.3													
1	+81.54	SB	2	6.0	14.0	11.0	9.3													
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1	+80.70	SB	2	6.0	14.0	11.0	9.3													
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1	+80.58	SB	1	6.0	12.0	11.0	8.0													
1	+80.58	SB	2	6.0	14.0	11.0	9.3													
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1	+83.67	SB	1	6.0	12.0	11.0	8.0													
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1	+83.43	SB	1	6.0	12.0	11.0	8.0													
1	+83.22	SB	2	6.0	14.0	11.0	9.3													
1	+83.16	SB	1	6.0	12.0	11.0	8.0													
1	+83.11	SB	2	6.0	14.0	11.0	9.3													
1	+83.06	SB	2	6.0	14.0	11.0	9.3													
1	+81.66	SB	1	6.0	12.0	11.0	8.0													
1	+81.46	SB	2	6.0	14.0	11.0	9.3													
1	+81.34	SB	1	6.0	12.0	11.0	8.0													
1	+81.22	SB	2	6.0	14.0	11.0	9.3													
1	+81.22	SB	1	6.0	12.0	11.0	8.0													
1	+81.16	SB	2	6.0	14.0	11.0	9.3													
1	+81.09	SB	1	6.0	12.0	11.0	8.0													
1	+81.05	SB	1	6.0	12.0	11.0	8.0													
1	+80.97	SB	1	6.0	12.0	11.0	8.0													
1	+80.85	SB	2	6.0	14.0	11.0	9.3													
1	+80.75	SB	2	6.0	14.0	11.0	9.3													
1	+80.54	SB	2	6.0	14.0	11.0	9.3													
1	+80.45	SB	1	6.0	12.0	11.0	8.0													
1	+80.37	SB	1	6.0	12.0	11.0	8.0													
1	+80.37	SB	1	6.0	12.0	11.0	8.0													
1	+80.30	SB	2	6.0	14.0	11.0	9.3													
1	+80.27	SB	1	6.0	12.0	11.0	8.0													
1	+80.25	SB	2	6.0	14.0	11.0	9.3													
1	+80.24	SB	1	6.0	12.0	11.0	8.0													
1	+80.20	SB	1	6.0	12.0	11.0	8.0													
1	+80.18	SB	2	6.0	14.0	11.0	9.3													
1	+80.18	SB	1	6.0	12.0	11.0	8.0													

FULL-DEPTH PATCHES

Possible Standards: PR-101, PR-102, PR-103, PR-104, PR-105, and PR-140.

Location				Dimension			PCC Patches				HMA Patches	Composite HMA	Subbase Patches	Subbase Patch w/ 'EF' Joint	Patch Subdrain	'CD' Joints	'CT' Joints	'EF' Joints	Anchor Lugs Removal	Remarks
Count	Mile Post	Reference Location Sign	Lane	Length	Width	Patch Thickness	With Dowels	Without Dowels	C R C	Ramp with Dowels										
							PR-103	PR-102	PR-104	PR-105										
			L, R, or B	FT	FT	IN	SY	SY	SY	SY	SY	TON	SY	SY	PR-101 or PR-140 No.	No.	No.	PR-101 No.	No.	
1	+80.15	SB	2	6.0	14.0	11.0	9.3													
1	+80.07	SB	2	6.0	14.0	11.0	9.3													
1	+80.05	SB	1	6.0	12.0	11.0	8.0													
1	+80.04	SB	2	6.0	14.0	11.0	9.3													
1	+79.79	NB	2	6.0	14.0	11.0	9.3													
1	+80.04	NB	1	6.0	12.0	11.0	8.0													
1	+80.04	NB	1	6.0	12.0	11.0	8.0													
1	+80.05	NB	2	6.0	14.0	11.0	9.3													
1	+80.06	NB	2	10.0	14.0	11.0	15.6													
1	+80.06	NB	2	24.0	14.0	11.0	37.3									1				
1	+80.07	NB	2	10.0	14.0	11.0	15.6													
1	+80.07	NB	2	10.0	14.0	11.0	15.6													
1	+80.08	NB	2	95.0	14.0	11.0	147.8									5				
1	+80.10	NB	2	6.0	14.0	11.0	9.3													
1	+80.11	NB	2	20.0	14.0	11.0	31.1													
1	+80.11	NB	2	6.0	14.0	11.0	9.3													
1	+80.12	NB	2	104.0	14.0	11.0	161.8									5				
1	+80.17	NB	2	6.0	14.0	11.0	9.3													
1	+80.18	NB	1	20.0	12.0	11.0	26.7									1				
1	+80.18	NB	2	6.0	14.0	11.0	9.3													
1	+80.21	NB	2	6.0	14.0	11.0	9.3													
1	+80.23	NB	2	6.0	14.0	11.0	9.3													
1	+80.27	NB	2	6.0	14.0	11.0	9.3													
1	+80.27	NB	1	6.0	12.0	11.0	8.0													
1	+80.28	NB	1	6.0	12.0	11.0	8.0													
1	+80.28	NB	1	6.0	12.0	11.0	8.0													
1	+80.29	NB	2	6.0	14.0	11.0	9.3													
1	+80.29	NB	1	6.0	12.0	11.0	8.0													
1	+80.29	NB	1	6.0	12.0	11.0	8.0													
1	+80.31	NB	2	6.0	14.0	11.0	9.3													
1	+80.32	NB	2	6.0	14.0	11.0	9.3													
1	+80.34	NB	2	6.0	14.0	11.0	9.3													
1	+80.35	NB	2	6.0	14.0	11.0	9.3													
1	+80.36	NB	2	10.0	14.0	11.0	15.6													
1	+80.37	NB	2	15.0	14.0	11.0	23.3													
1	+80.41	NB	2	6.0	14.0	11.0	9.3													
1	+80.41	NB	2	6.0	14.0	11.0	9.3													
1	+80.66	NB	2	6.0	14.0	11.0	9.3													
1	+80.83	NB	1	10.0	12.0	11.0	13.3											1		
1	+80.83	NB	2	10.0	14.0	11.0	15.6											1		
1	+81.05	NB	2	6.0	14.0	11.0	9.3													
1	+81.23	NB	2	6.0	14.0	11.0	9.3													
1	+81.24	NB	2	20.0	14.0	11.0	31.1									1				
1	+81.25	NB	2	10.0	14.0	11.0	15.6													
1	+81.31	NB	2	6.0	14.0	11.0	9.3													
1	+81.35	NB	2	15.0	14.0	11.0	23.3													
1	+81.39	NB	2	15.0	14.0	11.0	23.3													
1	+81.43	NB	2	6.0	14.0	11.0	9.3													
1	+81.45	NB	2	6.0	14.0	11.0	9.3													
1	+81.45	NB	2	6.0	14.0	11.0	9.3													
1	+81.45	NB	2	6.0	14.0	11.0	9.3													
1	+81.45	NB	2	6.0	14.0	11.0	9.3													
1	+81.46	NB	2	6.0	14.0	11.0	9.3													
1	+81.46	NB	2	6.0	14.0	11.0	9.3													
1	+81.47	NB	2	6.0	14.0	11.0	9.3													
1	+81.48	NB	2	6.0	14.0	11.0	9.3													
1	+81.53	NB	2	6.0	14.0	11.0	9.3													
1	+81.92	NB	2	6.0	14.0	11.0	9.3													
1	+82.13	NB	2	6.0	14.0	11.0	9.3													
1	+82.62	NB	2	6.0	14.0	11.0	9.3													
1	+80.06	NB	1	6.0	12.0	11.0	8.0													
1	+80.06	NB	2	6.0	14.0	11.0	9.3													
1	+80.12	NB	2	6.0	14.0	11.0	9.3													
1	+80.16	NB	2	6.0	14.0	11.0	9.3													
1	+80.22	NB	2	6.0	14.0	11.0	9.3													
1	+80.33	NB	1	6.0	12.0	11.0	8.0													
1	+80.44	NB	2	6.0	14.0	11.0	9.3													
1	+80.44	NB	1	6.0	12.0	11.0	8.0													
1	+80.51	NB	1	6.0	12.0	11.0	8.0													
1	+80.52	NB	2	6.0	14.0	11.0	9.3													
1	+80.53	NB	1	6.0	12.0	11.0	8.0													
1	+80.54	NB	2	6.0	14.0	11.0	9.3													
1	+80.60	NB	1	6.0	12.0	11.0	8.0													
1	+80.60	NB	2	6.0	14.0	11.0	9.3													
1	+80.68	NB	1	6.0	12.0	11.0	8.0													
1	+80.89	NB	2	6.0	14.0	11.0	9.3													
1	+81.09	NB	1	6.0	12.0	11.0	8.0													
1	+81.34	NB	2	6.0	14.0	11.0	9.3													

FULL-DEPTH PATCHES

Possible Standards: PR-101, PR-102, PR-103, PR-104, PR-105, and PR-140.

Location				Dimension			PCC Patches				HMA Patches	Composite HMA	Subbase Patches	Subbase Patch w/ 'EF' Joint	Patch Subdrain	'CD' Joints	'CT' Joints	'EF' Joints	Anchor Lugs Removal	Remarks
Count	Mile Post	Reference Location Sign	Lane	Length	Width	Patch Thickness	With Dowels	Without Dowels	C R C	Ramp with Dowels										
							PR-103	PR-102	PR-104	PR-105			PR-140	PR-101	PR-101 or PR-140			PR-101		
			L, R, or B	FT	FT	IN	SY	SY	SY	SY	SY	TON	SY	SY	No.	No.	No.	No.	No.	
1	+81.41	NB	1	6.0	12.0	11.0	8.0													
1	+81.42	NB	2	6.0	14.0	11.0	9.3													
1	+81.45	NB	1	6.0	12.0	11.0	8.0													
1	+81.46	NB	1	6.0	12.0	11.0	8.0													
1	+81.54	NB	1	6.0	12.0	11.0	8.0													
1	+81.56	NB	2	6.0	14.0	11.0	9.3													
1	+81.60	NB	2	6.0	14.0	11.0	9.3													
1	+81.60	NB	1	6.0	12.0	11.0	8.0													
1	+81.65	NB	1	6.0	12.0	11.0	8.0													
1	+81.67	NB	2	6.0	14.0	11.0	9.3													
1	+81.69	NB	1	6.0	12.0	11.0	8.0													
1	+81.71	NB	1	6.0	12.0	11.0	8.0													
1	+81.73	NB	1	6.0	12.0	11.0	8.0													
1	+82.17	NB	2	6.0	14.0	11.0	9.3													
1	+82.00	NB	2	6.0	14.0	11.0	9.3													
1	+83.11	NB	2	6.0	14.0	11.0	9.3													
1	+83.32	NB	1	6.0	12.0	11.0	8.0													
1	+83.33	NB	1	6.0	12.0	11.0	8.0													
1	+83.45	NB	1	6.0	12.0	11.0	8.0													
1	+83.59	NB	2	6.0	14.0	11.0	9.3													
1	+83.59	NB	1	6.0	12.0	11.0	8.0													
1	+83.61	NB	1	6.0	12.0	11.0	8.0													
1	+83.70	NB	2	6.0	14.0	11.0	9.3													
1	+83.72	NB	1	6.0	12.0	11.0	8.0													
1	+83.75	NB	1	6.0	12.0	11.0	8.0													
1	+83.75	NB	2	6.0	14.0	11.0	9.3													
1	+83.77	NB	1	6.0	12.0	11.0	8.0													
1	+83.76	NB	2	6.0	14.0	11.0	9.3													
1	+83.77	NB	2	6.0	14.0	11.0	9.3													
1	+83.79	NB	2	6.0	14.0	11.0	9.3													
1	+83.80	NB	2	6.0	14.0	11.0	9.3													
	65 SB Ramp To																			
1				6.0	16.0	11.0	10.7													
1				6.0	16.0	11.0	10.7													
1				6.0	16.0	11.0	10.7													
1				6.0	16.0	11.0	10.7													
1				6.0	16.0	11.0	10.7													
1			2	6.0	12.0	11.0	8.0													
1			2	6.0	12.0	11.0	8.0													
1			2	6.0	12.0	11.0	8.0													
1			2	6.0	12.0	11.0	8.0													
1			2	6.0	12.0	11.0	8.0													
1			2	6.0	8.0	11.0	5.3													
1	E University																			
1				6.0	16.0	11.0	10.7													
1				6.0	16.0	11.0	10.7													
1				6.0	16.0	11.0	10.7													
1				6.0	12.0	11.0	8.0													
1				44.0	8.0	11.0	39.1									2				
1	65 NB Ramp To																			
1				6.0	16.0	11.0	10.7													
	E. University																			
1				6.0	12.0	11.0	8.0													
1				6.0	16.0	11.0	10.7													
1				6.0	16.0	11.0	10.7													
1				6.0	16.0	11.0	10.7													
1				6.0	16.0	11.0	10.7													
1				6.0	16.0	11.0	10.7													
1				6.0	16.0	11.0	10.7													
1				6.0	16.0	11.0	10.7													
1				6.0	16.0	11.0	10.7													
1				6.0	8.0	11.0	5.3													
1				6.0	16.0	11.0	10.7													
1	65 NB To 8th																			
1				6.0	16.0	11.0	10.7													
1				6.0	16.0	11.0	10.7													
1				6.0	12.0	11.0	8.0													
1				6.0	16.0	11.0	10.7													
1	8th St. to Hu			6.0	12.0	11.0	8.0													
1				6.0	12.0	11.0	8.0													
1			1	6.0	12.0	11.0	8.0													
1			1	6.0	12.0	11.0	8.0													
1			1	6.0	12.0	11.0	8.0													
1			2	6.0	12.0	11.0	8.0													
1			1	6.0	12.0	11.0	8.0													

FULL-DEPTH PATCHES

Possible Standards: PR-101, PR-102, PR-103, PR-104, PR-105, and PR-140.

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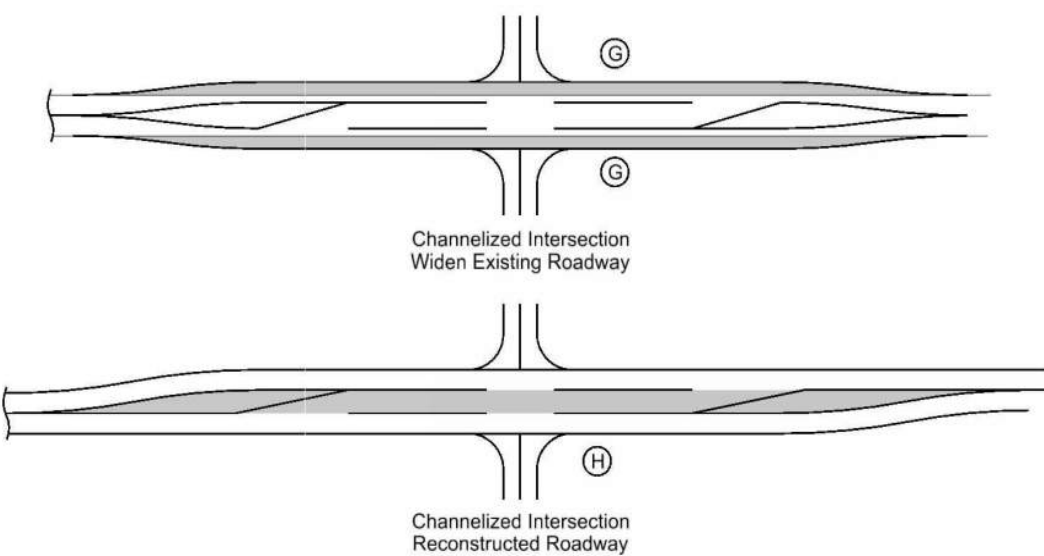
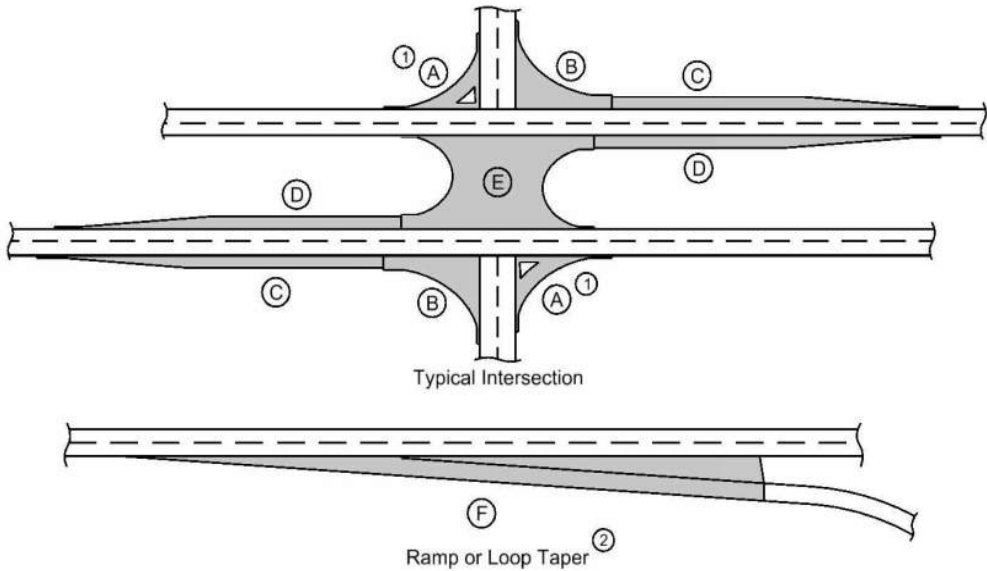
BRIDGE APPROACH SECTION

Refer to the Series.

* Not a bid item

Location				Approach Pavement					Standard Road Plans BR Series			Subdrain				Modified Subbase	Polymer Grid	Special Backfill	Remarks	
Bridge Station	End	Skew Ahead		T Thickness	Pay Length	Non-Reinf. Pavement Area	Single- Reinf. Pavement Area	Double- Reinf. Pavement Area				Perforated Subdrain 4"	Subdrain Outlet		Porous Backfill					Class 'A' Crushed Stone Backfill
		Degrees							Approach	Fixed or Movable Abutment	Abutting Pavement		CY	CY						
		LEFT	RIGHT																	
440+64.20	South	--	7.335	12.0	70.0	80.0	53.4	95.5	BR-203	Movable	Composite	52.0	438+64.45	Left	1.5	0.2	241.800	268.9		
440+64.20	North	--	7.335	12.0	70.0	80.0	53.4	93.0	BR-203	Movable	Composite	52.0	442+63.95	Left	1.5	0.2	239.100	266.2		

HMA PAVEMENT

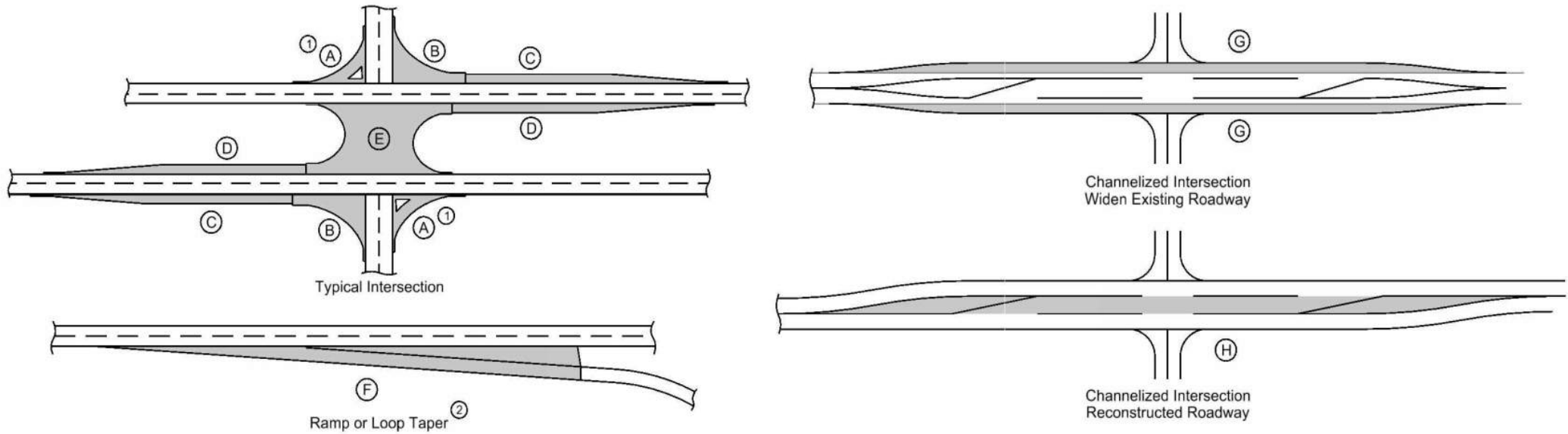


- ① Does not include raised island area or curb.
Refer to tabulation 112-4 for quantities.
- ② Refer to PV-410, PV-411, PV-412, and PV-414.
- ③ Quantity includes Pavement Header.

Calculations assume a surface course unit weight (lbs/cf) of 147, an intermediate course unit weight (lbs/cf) of 147, a base course unit weight (lbs/cf) of 0, and a special backfill unit weight (lbs/cf) of 140.

Location				Mainline			Area ③								Bid Items														Remarks
Road Identification	Direction of Travel	Station to Station		Width	Length	Area	A ^①	B	C	D	E	F ^②	G	H	Hot Mix Asphalt Pavement						Binder			Special Backfill	Modified Subbase	Granular Subbase	Pavement Scarification		
															Surface		Intermediate		Base		Surface	Intermediate	Base						
															TONS	SY	TONS	SY	TONS	SY	TONS	TONS	TONS					TONS	
HMA Overlay				FT	FT	SY	SY	SY	SY	SY	SY	SY	SY	SY	TONS	SY	TONS	SY	TONS	SY	TONS	TONS	TONS	CY	SY	SY			
US 65	SB	420+90.00	423+60.00	30.0	270.0	900.0						924.8			150.886	1824.8	150.886	1824.8			9.053	9.053							
US 65	SB	423+60.00	438+46.00	38.0	1486.0	6274.2									518.800	6274.2	518.800	6274.2			31.128	31.128							
US 65 SB Ent.	SB	423+60.00	425+05.00	28.0	145.0	451.1									37.301	451.1	37.301	451.1			2.238	2.238							
US 65	SB	442+71.00	457+00.00	38.0	1429.0	6033.6									498.900	6033.6	498.900	6033.6			29.934	29.934							
US 65 SB Exit	SB	455+50.00	457+00.00	28.0	150.0	466.7									38.588	466.7	38.588	466.7			2.315	2.315							
US 65	SB	457+00.00	463+06.00	30.0	606.0	2020.0						1768.3			313.248	3788.3	313.248	3788.3			18.795	18.795							
US 65	SB	463+06.00	507+57.00	38.0	4451.0	18793.1									#####	18793.1	#####	18793.1			93.237	93.237							
US 65	SB	510+98.00	524+64.00	38.0	1366.0	5767.6									476.905	5767.6	476.905	5767.6			28.614	28.614							
US 65	SB	530+94.00	594+00.00	38.0	6306.0	26625.3									#####	26625.3	#####	26625.3			#####	#####							
US 65	SB	594+00.00	605+60.00	30.0	1160.0	3866.7						2395.6			517.808	6262.2	517.808	6262.2			31.068	31.068							
US 65 SB Ent.	SB	605+60.00	607+04.00	28.0	144.0	448.0									37.044	448.0	37.044	448.0			2.223	2.223							
US 65	SB	605+60.00	613+72.00	38.0	812.0	3428.4									283.490	3428.4	283.490	3428.4			17.009	17.009							
US 65	SB	618+30.00	627+03.00	38.0	873.0	3686.0									304.786	3686.0	304.786	3686.0			18.287	18.287							
US 65	SB	631+21.00	644+00.00	38.0	1279.0	5400.2									446.531	5400.2	446.531	5400.2			26.792	26.792							
US 65 SB Exit	SB	642+50.00	644+00.00	28.0	150.0	466.7									38.588	466.7	38.588	466.7			2.315	2.315							
US 65	SB	644+00.00	650+10.00	30.0	610.0	2033.3						1789.0			316.059	3822.3	316.059	3822.3			18.964	18.964							
US 65	SB	650+10.00	661+85.00	38.0	1175.0	4961.1									410.222	4961.1	410.222	4961.1			24.613	24.613							
US 65	SB	661+85.00	668+93.00	22.0	708.0	1730.7						1753.4			288.092	3484.1	288.092	3484.1			17.286	17.286							
US 65 SB Ent.	SB	668+93.00	670+37.00	28.0	144.0	448.0									37.044	448.0	37.044	448.0			2.223	2.223							
US 65	SB	668+93.00	670+50.00	28.0	157.0	488.4									40.388	488.4	40.388	488.4			2.423	2.423							
US 65	SB	670+50.00	671+50.00	27.0	100.0	300.0									24.806	300.0	24.806	300.0			1.488	1.488							
US 65	SB	671+50.00	678+94.21	26.0	744.2	2149.9									177.773	2149.9	177.773	2149.9			10.666	10.666							
US 65	SB	1678+95.02	1679+40.00	26.0	45.0	129.9									10.745	129.9	10.745	129.9			0.645	0.645							
US 65	NB	421+00.00	422+25.00	30.0	125.0	416.7						595.2			83.671	1011.9	83.671	1011.9			5.020	5.020							

HMA PAVEMENT



- ① Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.
② Refer to PV-410, PV-411, PV-412, and PV-414.
③ Quantity includes Pavement Header.

Calculations assume a surface course unit weight (lbs/cf) of 147, an intermediate course unit weight (lbs/cf) of 147, a base course unit weight (lbs/cf) of 0, and a special backfill unit weight (lbs/cf) of 140.

Location				Mainline			Area ③								Bid Items														Remarks
Road Identification	Direction of Travel	Station to Station		Width	Length	Area	A ①	B	C	D	E	F ②	G	H	Hot Mix Asphalt Pavement						Binder			Special Backfill	Modified Subbase	Granular Subbase	Pavement Scarification		
															Surface		Intermediate		Base		Surface	Intermediate	Base						
TONS	SY	TONS	SY	TONS	SY	TONS	TONS	TONS	CY	SY	SY																		
US 65 NB Exit	NB	422+25.00	423+75.00	28.0	150.0	466.7									38.588	466.7	38.588	466.7			2.315	2.315							
US 65	NB	422+25.00	438+60.00	40.0	1635.0	7266.7									600.863	7266.7	600.863	7266.7			36.052	36.052							
US 65	NB	422+80.00	455+15.00	40.0	3235.0	14377.8									#####	14377.8	#####	14377.8			71.332	71.332							
US 65 NB Ent.	NB	453+65.00	455+15.00	28.0	150.0	466.7									38.588	466.7	38.588	466.7			2.315	2.315							
US 65	NB	455+15.00	466+75.00	30.0	1160.0	3866.7						2470.3			523.991	6337.0	523.991	6337.0			31.439	31.439							
US 65	NB	466+75.00	507+85.00	40.0	4110.0	18266.7									#####	18266.7	#####	18266.7			90.626	90.626							
US 65	NB	532+00.00	595+90.00	40.0	6390.0	28400.0									#####	28400.0	#####	28400.0			#####	#####							
US 65	NB	595+90.00	602+00.00	30.0	610.0	2033.3						1799.0			316.886	3832.3	316.886	3832.3			19.013	19.013							
US 65 NB Exit	NB	602+00.00	603+50.00	28.0	150.0	466.7									38.588	466.7	38.588	466.7			2.315	2.315							
US 65	NB	602+00.00	613+25.00	40.0	1125.0	5000.0									413.438	5000.0	413.438	5000.0			24.806	24.806							
US 65	NB	618+55.00	627+35.00	40.0	880.0	3911.1									323.400	3911.1	323.400	3911.1			19.404	19.404							
US 65	NB	631+50.00	643+15.00	40.0	1165.0	5177.8									428.138	5177.8	428.138	5177.8			25.688	25.688							
US 65 NB Ent.	NB	641+70.00	643+15.00	28.0	145.0	451.1									37.301	451.1	37.301	451.1			2.238	2.238							
US 65	NB	643+15.00	654+75.00	30.0	1160.0	3866.7						2442.1			521.657	6308.8	521.657	6308.8			31.299	31.299							
US 65	NB	654+75.00	658+20.00	40.0	345.0	1533.3									126.788	1533.3	126.788	1533.3			7.607	7.607							
US 65	NB	658+20.00	664+30.00	30.0	610.0	2033.3						1799.0			316.886	3832.3	316.886	3832.3			19.013	19.013							
US 65 NB Exit	NB	664+30.00	665+80.00	28.0	150.0	466.7									38.588	466.7	38.588	466.7			2.315	2.315							
US 65	NB	664+30.00	670+40.00	33.0	610.0	2236.7									184.944	2236.7	184.944	2236.7			11.097	11.097							
US 66	NB	670+40.00	678+94.21	28.0	854.2	2657.5									219.746	2657.5	219.746	2657.5			13.185	13.185							
US 67	NB	1678+95.02	1679+15.00	28.0	20.0	62.2									5.140	62.2	5.140	62.2			0.308	0.308							
														Total:	#####	218029.9	#####	218029.9			#####	#####				0.0			

102-16

10-21-14

NOTCHES AND RUNOUTS FOR RESURFACING

Refer to PR-201 and PR-202.

1

Bid item. Applies only to Types 'N1' and 'N3' on PR-202. Refer to 100-25 for remaining values.

Location Station	Type of Notch or Runout	S	I	DI	L	M	Pavement Scarification 1	Remarks
		IN	IN	IN	FT	IN	SY	
Southbound								
420+90.00	Type 'N3'	1.5	1.5		150.0	1.5	466.7	SB, on approach E Oakwood Dr Bridge
425+04.00	Type 'N3'	1.5	1.5		150.0	1.5	233.3	SB, entrance ramp from IA 163
438+46.00	Type 'N3'	1.5	1.5		150.0	1.5	316.7	SB, off approach at IA 163
442+71.00	Type 'N3'	1.5	1.5		150.0	1.5	316.7	SB, on approach at IA 163
455+49.00	Type 'N3'	1.5	1.5		150.0	1.5	233.3	SB, exit ramp to IA 163
507+57.00	Type 'N3'	1.5	1.5		150.0	1.5	316.7	SB, off approach at NE 27th Ave
510+98.00	Type 'N3'	1.5	1.5		150.0	1.5	316.7	SB, on approach at NE 27th Ave
524+64.00	Type 'N3'	1.5	1.5		150.0	1.5	316.7	SB, off approach at IAIS Bridge
530+94.00	Type 'N3'	1.5	1.5		150.0	1.5	316.7	SB, on approach at IAIS Bridge
607+04.00	Type 'N3'	1.5	1.5		150.0	1.5	233.3	SB, on ramp from 8th St
613+72.00	Type 'N3'	1.5	1.5		150.0	1.5	316.7	SB, off approach at 8th St
618+30.00	Type 'N3'	1.5	1.5		150.0	1.5	316.7	SB, on approach at 8th St
627+03.00	Type 'N3'	1.5	1.5		150.0	1.5	316.7	SB, off approach at US 6
631+21.00	Type 'N3'	1.5	1.5		150.0	1.5	316.7	SB, on approach at US 6
642+50.00	Type 'N3'	1.5	1.5		150.0	1.5	233.3	SB, exit ramp to US 6
670+37.00	Type 'N3'	1.5	1.5		150.0	1.5	233.3	SB, entrance ramp from I-80 EB
1679+40.00	Type 'N3'	1.5	1.5		150.0	1.5	216.7	SB, entrance ramp from I-80 WB
Northbound								
420+99.00	Type 'N3'	1.5	1.5		150.0	1.5	608.3	NB, off approach at E Oakwood Dr Bridge
423+77.00	Type 'N3'	1.5	1.5		150.0	1.5	233.3	SB, exit ramp to IA 163
438+57.00	Type 'N3'	1.5	1.5		150.0	1.5	333.3	NB, on approach at IA 163
442+82.00	Type 'N3'	1.5	1.5		150.0	1.5	333.3	NB, off approach at IA 163
453+73.00	Type 'N3'	1.5	1.5		150.0	1.5	233.3	NB, entrance ramp from IA 163
507+85.00	Type 'N3'	1.5	1.5		150.0	1.5	333.3	NB, on approach at NE 27th Ave
531+99.00	Type 'N3'	1.5	1.5		150.0	1.5	333.3	NB, off approach at IAIS Bridge
603+49.00	Type 'N3'	1.5	1.5		150.0	1.5	233.3	NB, exit ramp to 8th St
613+25.00	Type 'N3'	1.5	1.5		150.0	1.5	333.3	NB, on appraoch at 8th St
617+82.00	Type 'N3'	1.5	1.5		150.0	1.5	333.3	NB, off approach at 8th St
627+35.00	Type 'N3'	1.5	1.5		150.0	1.5	333.3	NB, on approach at US 6
631+53.00	Type 'N3'	1.5	1.5		150.0	1.5	333.3	NB, off approach at US 6
641+72.00	Type 'N3'	1.5	1.5		150.0	1.5	333.3	NB, entrance ramp from US 6
665+80.00	Type 'N3'	1.5	1.5		150.0	1.5	233.3	NB, exit ramp to I-80 EB
1679+13.00	Type 'N3'	1.5	1.5		150.0	1.5	216.7	NB, exit ramp to I-80 WB
							9775.0	
ge approaches								

108-8A

10-16-18

STEEL BEAM GUARDRAIL AT CONCRETE BARRIER OR BRIDGE RAIL END SECTION

Possible Standards: BA-200, BA-201, BA-202, BA-205, BA-206, BA-210, BA-211, BA-221, BA-225, BA-250, BA-260, LS-625, LS-626, LS-630, LS-635, SI-172, SI-173 and SI-211.

① Lane(s) to which the obstacle is adjacent.

② Not a bid item. Incidental to guardrail installation.

Location			Station	Offset	Layout Lengths				Long-Span System	Delineators and Object Markers ②				Bid Items										Remarks		
No.	Direction of Traffic	① Side O = Outside M = Median			BA-250, BA-260, LS-630, or LS-635					SI-211	Delineator SI-172	Object Marker		Bolted End Anchor	Post Adapter	Steel Beam Guardrail	Barrier Transition Section	BA-250 or LS-630				BA-260 or LS-635				
					VT1	VF	VT2	ET				Type 1	Type 2					Type 3		End Terminal					Barrier Transition Section	End Terminal
																		Tangent	Flared	Tangent	Flared					
																						BA-201	BA-205			
FT	LF	LF	LF	STATION	TYPE	TYPE	EACH	EACH	EACH	EACH	TYPE	EACH	LF	EACH	EACH	EACH	EACH	EACH								
1	NB	O	439+25.00	66.0	215.625			47.7			3			1	C	1	175.0		1	1					IA 163	
2	NB	M	439+20.00	26.0	253.125			47.7			3			1	C	1	212.5		1	1					IA 163	
3	SB	O	442+00.00	66.0	215.625			47.7			3			1	C	1	175.0		1	1					IA 163	
4	SB	M	442+05.00	26.0	253.125			47.7			3			1	C	1	212.5		1	1					IA 163	
5	NB	O	508+55.00	66.0	215.625			47.7			3			1	C	1	175.0		1	1					NE 27th Ave	
6	NB	M	508+45.00	26.0	253.125			47.7			3			1	C	1	212.5		1	1					NE 27th Ave	
7	NB	O	526+70.00	66.0	290.625			47.7			3			1	C	1	250.0		1	1					Railroad	
8	NB	M	526+35.00	26.0	153.125			47.7			3			1	C	1	112.5		1	1					Railroad	
9	SB	O	530+00.00	66.0	265.625			47.7			3			1	C	1	225.0		1	1					Railroad	
10	SB	M	530+35.00	26.0	228.125			47.7			3			1	C	1	187.5		1	1					Railroad	
11	NB	O	1679+70.00	54.0	278.125			47.7			3			1	C	1	237.5		1	1					I-80	
12	NB	M	1679+80.00	28.0	253.125			47.7			3			1	C	1	212.5		1	1					I-80	
														12		12		12		12						

SHOULDERS

- ① Lane(s) to which the shoulder is adjacent.
② See Typ. 7156, 7157, or 7158.
③ Bid Item.
④ Applies only for Paved Shoulders constructed on project with existing granular shoulders.
⑤ Bid Item. Typ. 7156, 7157, or 7158.
⑥ Does not include shrink.

Calculations assume a HMA unit weight (lbs/cf) of 147, a Special Backfill unit weight (lbs/cf) of 140, and a Granular Shoulder unit weight (lbs/cf) of 140.

Location					P	P _{SG}	G	L	Quantities															Remarks	
Road Identification	① Direction Of Traffic	Station to Station	Side	Class 13 ^④ Excavation					Hot Mix Asphalt		Binder	Paved Shoulder	8" Paved Shoulder at Guardrail	Reinforced Paved Shoulder	Special Backfill				Modified Subbase	Granular Shoulder		Earth Shoulder Construction Alternates			
															HMA Alternate		PCC Alternate					STA ^③	HMA CY ^⑥		PCC CY ^⑥
															TON ^③	TON/STA	TON ^③	TON/STA							
FT	FT ^②	FT	FT	CY ^③	TON	TON/STA	TONS	SY ^③	SY ^⑤	SY ^③	TON ^③	TON/STA	TON ^③	TON/STA	CY ^③	TON ^③	TON/STA	STA ^③	CY ^⑥	CY ^⑥					
US 65	SB	437+45.00	438+45.00	Rt	8.0			100.0				39.198	39.198	2.352	88.9										
US 65	SB	437+45.00	438+45.00	Lt	8.0			100.0				39.198	39.198	2.352	88.9										
US 65	SB	438+45.00	444+35.00	Rt	8.0			590.0				231.266	39.198	13.876	524.4										
US 65	SB	438+45.00	444+35.00	Lt	8.0			590.0				231.266	39.198	13.876	524.4										
US 65	SB	420+90.00	423+60.00	Lt			1.5	270.0												3.544	1.313				
US 65	SB	420+90.00	423+60.00	Rt			1.5	270.0												3.544	1.313				
US 65 SB Ent.	SB	423+60.00	425+05.00	Lt			1.5	145.0												1.903	1.313				
US 65 SB Ent.	SB	423+60.00	425+05.00	Rt			1.5	145.0												1.903	1.313				
US 65	SB	423+60.00	438+46.00	Lt			1.5	1486.0												19.504	1.313				
US 65	SB	423+60.00	438+46.00	Rt			3.5	1486.0												71.514	4.813				
US 65	SB	438+46.00	439+20.00	Lt				74.0														0.7	4.1		
US 65	SB	438+46.00	439+15.00	Rt				69.0														0.7	3.8		
US 65	SB	442+03.00	442+71.00	Lt				68.0														0.7	3.8		
US 65	SB	441+98.00	442+71.00	Rt				73.0														0.7	4.1		
US 65	SB	442+71.00	444+56.50	Lt		5.8		185.5	26.6						119.5							1.9	10.3		
US 65	SB	444+56.50	445+08.75	Lt		.8 to 7.9		52.3	8.8						39.8							0.5	2.9		
US 65	SB	445+08.75	445+28.75	Lt		7.9		20.0	3.9						17.6							0.2	1.1		
US 65	SB	442+71.00	444+15.50	Rt		10.0		144.5	35.7						160.6							1.4	8.0		
US 65	SB	444+15.50	444+66.00	Rt		0 to 12.1		50.5	13.8						62.0							0.5	2.8		
US 65	SB	444+66.00	444+86.00	Rt		12.1		20.0	6.0						26.9							0.2	1.1		
US 65	SB	445+28.75	457+00.00	Lt			1.5	1171.3												15.373	1.313				
US 65	SB	444+86.00	457+00.00	Rt			3.5	1214.0												58.424	4.813				
US 65 SB Exit	SB	455+50.00	457+00.00	Lt			1.5	150.0												1.969	1.313				
US 65 SB Exit	SB	455+50.00	457+00.00	Rt			1.5	150.0												1.969	1.313				
US 65	SB	457+00.00	463+06.00	Lt			1.5	606.0												7.954	1.313				
US 65	SB	457+00.00	463+06.00	Rt			1.5	606.0												7.954	1.313				
US 65	SB	463+06.00	507+57.00	Lt			1.5	4451.0												58.419	1.313				
US 65	SB	463+06.00	507+57.00	Rt			3.5	4451.0												214.204	4.813				
US 65	SB	510+98.00	524+64.00	Lt			1.5	1366.0												17.929	1.313				
US 65	SB	510+98.00	524+64.00	Rt			3.5	1366.0												65.739	4.813				
US 65	SB	532+65.00	533+12.50	Lt		0 to 2.4		47.5	1.4						6.3							0.5	2.6		
US 65	SB	533+12.50	533+32.50	Lt		2.4		20.0	1.2						5.3							0.2	1.1		
US 65	SB	532+13.00	533+06.50	Rt		0 to 3.8		93.5	4.4						19.7							0.9	5.2		
US 65	SB	533+06.50	533+26.50	Rt		3.8		20.0	1.9						8.4							0.2	1.1		
US 65	SB	533+32.50	605+60.00	Lt			1.5	7227.5												94.861	1.313				
US 65	SB	533+26.50	605+60.00	Rt			3.5	7233.5												348.112	4.813				
US 65 SB Ent.	SB	605+60.00	607+04.00	Lt			1.5	144.0												1.890	1.313				
US 65 SB Ent.	SB	605+60.00	607+04.00	Rt			1.5	144.0												1.890	1.313				
US 65	SB	605+60.00	613+72.00	Lt			1.5	812.0												10.658	1.313				
US 65	SB	605+60.00	613+72.00	Rt			3.5	812.0												39.078	4.813				
US 65	SB	618+30.00	627+03.00	Lt			1.5	873.0												11.458	1.313				
US 65	SB	618+30.00	627+03.00	Rt			3.5	873.0												42.013	4.813				
US 65	SB	631+21.00	644+00.00	Lt			1.5	1279.0												16.787	1.313				
US 65	SB	631+21.00	644+00.00	Rt			3.5	1279.0												61.552	4.813				
US 65 SB Exit	SB	642+50.00	644+00.00	Lt			1.5	150.0												1.969	1.313				
US 65 SB Exit	SB	642+50.00	644+00.00	Rt			1.5	150.0												1.969	1.313				
US 65	SB	644+00.00	650+10.00	Lt			1.5	610.0												8.006	1.313				
US 65	SB	644+00.00	650+10.00	Rt			1.5	610.0												29.356	4.813				
US 65	SB	650+10.00	661+85.00	Lt			1.5	1175.0												15.422	1.313				
US 65	SB	650+10.00	661+85.00	Rt			1.5	1175.0												56.547	4.813				
US 65	SB	661+85.00	66																						

112-9
10-20-20

SHOULDERS

①

Lane(s) to which the shoulder is adjacent.

②

See Typ. 7156, 7157, or 7158.

③

Bid Item.

④

Applies only for Paved Shoulders constructed on project with existing granular shoulders.

⑤

Bid Item. Typ. 7156, 7157, or 7158.

⑥

Does not include shrink.

Calculations assume a HMA unit weight (lbs/cf) of 147, a Special Backfill unit weight (lbs/cf) of 140, and a Granular Shoulder unit weight (lbs/cf) of 140.

Road Identification	① Direction Of Traffic	Location			P Width FT	P _{SG} Width FT ②	G Width FT	L Length FT	Class 13 ④ Excavation CY ③	Hot Mix Asphalt		Binder TONS	Paved Shoulder SY ③	8" Paved Shoulder at Guardrail SY ⑤	Reinforced Paved Shoulder SY ③	Quantities				Modified Subbase CY ③	Granular Shoulder		Earth Shoulder Construction Alternates			Remarks				
		Station to Station	Side	Special Backfill						TON	TON/STA					TONS	SY ③	TON ③	TON/STA		TON ③	TON/STA	CY ③	TON ③	TON/STA		STA ③	HMA CY ⑥	PCC CY ⑥	

US 65

NB

422+80.00

455+15.00

Rt

1.5

3235.0

112-10 10-20-20													
MILLED RUMBLE STRIPS													
See PV-12 and PV-13													
* Calculated at 18" width for Shoulder.													
Road Identification		Station to Station		Shoulder Pavement Type	Rumble Strip Type (Centerline, Rt or Lt Shoulder)	Ⓛ IN	Installation Length		Fog Seal* (Milled Rumble Strip) Shoulder GAL	Effective Shoulder Width			Remarks
							PCC	HMA		PCC Paved	HMA Paved	Granular\ Earth	
							STA	STA		FT	FT	FT	
US 65, Southbound		420+90.00	668+90.00	HMA	Left Shoulder			248.00	268.7		6.0		
US 65, Southbound		420+90.00	668+90.00	HMA	Right Shoulder			248.00	268.7		8.0	2.0	
US 65, Northbound		421+00.00	670+40.00	HMA	Left Shoulder			249.40	270.2		10.0		
US 65, Northbound		421+00.00	670+40.00	HMA	Right Shoulder			249.40	270.2		10.0		
					Totals		PCC	HMA	Fog Seal				
					HMA Shoulders			994.80	1077.8				
					PCC Shoulders		0.00						
					PCC or HMA Shoulders		0.00	0.00	0.0				
					HMA Centerlines			0.00					
					PCC Centerlines		0.00						
					PCC or HMA Centerlines		0.00	0.00					

108-29 04-21-15																											
PAVEMENT MARKING SYMBOLS AND LEGENDS																											
Refer to PM-111																											
Road Identification	Location																	SCHOOL	XING	STOP	AHEAD	ONLY	BIKE	LANE	EXIT	Groove Cuts	Remarks
	Station	Side																									
			STAW	RTAW	LTAW	CSRW	CSLW	CSTW	CRLW	FERW	LLRW	RLRW	RRCW	BLSW	WCSW	WPSB	SCLW	XNGW	STPW	AHDW	ONLW	BIKW	LANW	XITW	EACH		
US 65	473+14.18	Out												1													
US 65	474+14.18	Out												1													
US 65	483+14.18	Out												1													
US 65	484+14.18	Out												1													
US 65	473+14.18	Med									1																
US 65	474+14.18	Med									1																
US 65	483+14.18	Med									1																
US 65	484+14.18	Med									1																

108-22																										
PAVEMENT MARKING LINE TYPES																										
See PM-110																										
*BCY4 - Place on the same side of the roadway to match existing markings near the project.																										
**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.																										
ELW6: Edge Line Right (White) @ 1.00 ELY6: Edge Line Left (Yellow) @ 1.00																										

Location										Length by Line Type (Unfactored)														Remarks	
Road ID	Station to Station		Dir. of Travel	Marking Type			Side			ELW6	ELY6	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA		
							L	C	R																STA
Stage 1 of B																									
US 65	434+25.00	447+70.00	SB	PAVEMENT MARKINGS REMOVED					X	13.45															
US 65	434+25.00	447+70.00	SB	PAVEMENT MARKINGS REMOVED				X				13.45													
US 65	434+25.00	437+00.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED			X								2.75								
US 65	434+25.00	437+00.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED		X									2.75								
US 65	437+00.00	444+95.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED			X								7.95								
US 65	437+00.00	444+95.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED		X									7.95								
US 65	444+95.00	447+70.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED			X								2.75								
US 65	444+95.00	447+70.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED		X									2.75								
Stage 2 of B																									
US 65	434+25.00	437+00.00	SB	PAVEMENT MARKINGS REMOVED					X								2.75								
US 66	434+25.00	437+00.00	SB	PAVEMENT MARKINGS REMOVED				X									2.75								Rmv from Stg 1
US 67	437+00.00	444+95.00	SB	PAVEMENT MARKINGS REMOVED					X								7.95								Rmv from Stg 1
US 68	437+00.00	444+95.00	SB	PAVEMENT MARKINGS REMOVED				X									7.95								Rmv from Stg 1
US 69	444+95.00	447+70.00	SB	PAVEMENT MARKINGS REMOVED					X								2.75								Rmv from Stg 1
US 70	444+95.00	447+70.00	SB	PAVEMENT MARKINGS REMOVED				X									2.75								Rmv from Stg 1
US 71	434+25.00	447+70.00	SB	PAVEMENT MARKINGS REMOVED			X				13.45														Rmv prior to Stg 2
US 72	434+25.00	437+00.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED			X								2.75								
US 73	434+25.00	437+00.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED		X										2.75							
US 74	437+00.00	445+00.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED			X								8.00								
US 75	437+00.00	445+00.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED		X									8.00								
US 76	445+00.00	447+70.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED			X								2.70								
US 77	445+00.00	447+70.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED		X									2.70								
US 78	434+25.00	437+00.00	SB	PAVEMENT MARKINGS REMOVED					X								2.75								Rmv from Stg 2
US 79	434+25.00	437+00.00	SB	PAVEMENT MARKINGS REMOVED				X									2.75								Rmv from Stg 2
US 80	437+00.00	445+00.00	SB	PAVEMENT MARKINGS REMOVED					X								8.00								Rmv from Stg 2
US 81	437+00.00	445+00.00	SB	PAVEMENT MARKINGS REMOVED				X									8.00								Rmv from Stg 2
US 82	445+00.00	447+70.00	SB	PAVEMENT MARKINGS REMOVED					X								2.70								Rmv from Stg 2
US 83	445+00.00	447+70.00	SB	PAVEMENT MARKINGS REMOVED				X									2.70								Rmv from Stg 2
US 84	434+25.00	447+70.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED	X				13.45														After Stg 2
US 85	434+25.00	447+70.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED		X				13.45													After Stg 2
US 86	434+25.00	447+70.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED			X	13.45															After Stg 2
After Interm																									
US 65	420+90.00	678+94.21	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED	X				258.04														
US 65	1678+95.02	1679+40.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED	X				0.45														
US 65	420+90.00	664+60.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED		X					243.70												
US 65	420+90.00	423+60.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED			X					2.70											
US 65	420+90.00	423+60.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED			X					2.70											
US 65	420+90.00	425+05.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED			X						4.15										
US 65	423+60.00	425+05.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED			X						1.45										
US 65	423+60.00	457+00.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED			X	33.40															
US 65	455+50.00	457+00.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED			X							1.50									
US 65	455+50.00	463+06.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED			X						7.56										
US 65	457+00.00	460+65.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED			X					3.65											
US 65	457+00.00	460+65.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED			X					3.65											
US 65	460+65.00	463+06.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED			X						2.41										
US 65	463+06.00	594+00.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED		X		130.94															
US 65	594+00.00	607+04.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED		X							13.04										
US 65	602+00.00	605+60.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED		X						3.60											
US 65	602+00.00	605+60.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED		X						3.60											
US 65	605+60.00	607+04.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED		X							1.44										
US 65	605+60.00	644+00.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED		X	38.40																
US 65	642+50.00	650+10.00	SB	PAINTED	PAVEMENT MARKING,	WATERBORNE OR SOLVENT-BASED			X					7.60											

PAVEMENT MARKING LINE TYPES

See PM-110

***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

*BCY4 - Place on the same side of the roadway to match existing markings near the project.

**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.

ELW6: Edge Line Right (White) @ 1.00

ELY6: Edge Line Left (Yellow) @ 1.00

Location				Length by Line Type (Unfactored)																Remarks
Road ID	Station to Station		Dir. of Travel	Marking Type	Side			ELW6	ELY6											
					L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
US 65	642+50.00	644+00.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X						1.50							
US 65	644+00.00	647+70.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.70									
US 65	644+00.00	647+70.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.70									
US 65	647+70.00	650+10.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X						2.40							
US 65	650+10.00	661+85.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	11.75												
US 65	661+85.00	670+37.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				8.52									
US 65	664+60.00	668+90.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				4.30									
US 65	664+60.00	668+90.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				4.30									
US 65	668+90.00	670+50.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					1.60								
US 65	668+90.00	678+94.21	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					10.04								
US 65	1678+95.02	1679+40.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					0.45								
US 65	421+00.00	678+94.21	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X				257.94											
US 65	1678+95.02	1679+15.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X				0.20											
US 65	421+00.00	664+80.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X				243.80										
US 65	421+00.00	423+75.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					2.75								
US 65	421+00.00	422+25.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				1.25									
US 65	421+00.00	422+25.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				1.25									
US 65	422+25.00	423+75.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					1.50								
US 65	422+25.00	455+15.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	32.90												
US 65	453+65.00	466+75.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				13.10									
US 65	453+65.00	455+15.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					1.50								
US 65	455+15.00	458+85.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.70									
US 65	455+15.00	458+85.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.70									
US 65	466+75.00	595+90.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	129.15												
US 65	595+90.00	603+50.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				7.60									
US 65	595+90.00	598+30.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					2.40								
US 65	598+30.00	602+00.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.70									
US 65	598+30.00	602+00.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.70									
US 65	602+00.00	603+50.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					1.50								
US 65	602+00.00	643+15.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	41.15												
US 65	641+70.00	654+75.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				13.05									
US 65	641+70.00	643+15.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					1.45								
US 65	643+15.00	646+75.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.60									
US 65	643+15.00	646+75.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.60									
US 65	654+75.00	658+20.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	3.45												
US 65	658+20.00	665+80.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				7.60									
US 65	658+20.00	660+60.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					2.40								
US 65	660+60.00	664+30.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.70									
US 65	660+60.00	664+30.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.70									
US 65	664+30.00	678+94.21	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	14.64												
US 65	1678+95.02	1679+15.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	0.20												
After Surface																				
US 65	420+90.00	678+94.21	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X				258.04											
US 65	1678+95.02	1679+40.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X				0.45											
US 65	420+90.00	664+60.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X				243.70										
US 65	420+90.00	423+60.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				2.70									
US 65	420+90.00	423+60.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				2.70									
US 65	420+90.00	425+05.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				4.15									
US 65	423+60.00	425+05.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					1.45								
US 65	423+60.00	457+00.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	33.40												
US 65	455+50.00	457+00.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					1.50								
US 65	455+50.00	463+06.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				7.56									
US 65	457+00.00	460+65.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.65									
US 65	457+00.00	460+65.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.65									
US 65	460+65.00	463+06.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					2.41								
US 65	463+06.00	594+00.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	130.94												
US 65	594+00.00	607+04.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				13.04									
US 65	602+00.00	605+60.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.60									
US 65	602+00.00	605+60.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.60									
US 65	605+60.00	607+04.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					1.44								
US 65	605+60.00	644+00.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	38.40												
US 65	642+50.00	650+10.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				7.60									
US 65	642+50.00	644+00.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					1.50								
US 65	644+00.00	647+70.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.70									
US 65	644+00.00	647+70.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.70									
US 65	647+70.00	650+10.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					2.40								
US 65	650+10.00	661+85.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	11.75												
US 65	661+85.00	670+37.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				8.52									
US 65	664+60.00	668+90.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				4.30									
US 65	664+60.00	668+90.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				4.30									
US 65	668+90.00	670+50.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					1.60								
US 65	668+90.00	678+94.21	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					10.04								
US 65	1678+95.02	1679+40.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					0.45								

PAVEMENT MARKING LINE TYPES

*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.
ELW6: Edge Line Right (White) @ 1.00

See PM-110
***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

ELY6: Edge Line Left (Yellow) @ 1.00

Location				Length by Line Type (Unfactored)																	Remarks
Road ID	Station to Station		Dir. of Travel	Marking Type	Side			ELW6	ELY6												
					L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
US 65	421+00.00	678+94.21	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X				257.94												
US 65	1678+95.02	1679+15.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X				0.20												
US 65	421+00.00	664+80.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X				243.80											
US 65	421+00.00	423+75.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				2.75										
US 65	421+00.00	422+25.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				1.25										
US 65	421+00.00	422+25.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				1.25										
US 65	422+25.00	423+75.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					1.50									
US 65	422+25.00	455+15.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	32.90													
US 65	453+65.00	466+75.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				13.10										
US 65	453+65.00	455+15.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					1.50									
US 65	455+15.00	458+85.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.70										
US 65	455+15.00	458+85.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.70										
US 65	466+75.00	595+90.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	129.15													
US 65	595+90.00	603+50.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				7.60										
US 65	595+90.00	598+30.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					2.40									
US 65	598+30.00	602+00.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.70										
US 65	598+30.00	602+00.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.70										
US 65	602+00.00	603+50.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					1.50									
US 65	602+00.00	643+15.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	41.15													
US 65	641+70.00	654+75.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				13.05										
US 65	641+70.00	643+15.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					1.45									
US 65	643+15.00	646+75.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.60										
US 65	643+15.00	646+75.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.60										
US 65	654+75.00	658+20.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	3.45													
US 65	658+20.00	665+80.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				7.60										
US 65	658+20.00	660+60.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					2.40									
US 65	660+60.00	664+30.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.70										
US 65	660+60.00	664+30.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.70										
US 65	664+30.00	678+94.21	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	14.64													
US 65	1678+95.02	1679+15.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	0.20													
Final Pavement																					
US 65	420+90.00	678+94.21	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X				258.04												
US 65	420+90.00	678+94.21	SB	GROOVES CUT FOR PAVEMENT MARKINGS	X				258.04												
US 65	1678+95.02	1679+40.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X				0.45												
US 65	1678+95.02	1679+40.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS	X				0.45												
US 65	420+90.00	664+60.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X				243.70											
US 65	420+90.00	664+60.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS		X				243.70											
US 65	420+90.00	423+60.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				2.70										
US 65	420+90.00	423+60.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X				2.70										
US 65	420+90.00	423+60.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				2.70										
US 65	420+90.00	423+60.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X				2.70										
US 65	420+90.00	425+05.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				4.15										
US 65	420+90.00	425+05.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X				4.15										
US 65	423+60.00	425+05.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					1.45									
US 65	423+60.00	425+05.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X				1.45										
US 65	423+60.00	457+00.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	33.40													
US 65	423+60.00	457+00.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X	33.40													
US 65	455+50.00	457+00.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					1.50									
US 65	455+50.00	457+00.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X					1.50									
US 65	455+50.00	463+06.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				7.56										
US 65	455+50.00	463+06.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X				7.56										
US 65	457+00.00	460+65.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.65										
US 65	457+00.00	460+65.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X				3.65										
US 65	457+00.00	460+65.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.65										
US 65	457+00.00	460+65.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X				3.65										
US 65	460+65.00	463+06.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					2.41									
US 65	460+65.00	463+06.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X					2.41									
US 65	463+06.00	594+00.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	130.94													
US 65	463+06.00	594+00.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X	130.94													
US 65	594+00.00	607+04.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				13.04										
US 65	594+00.00	607+04.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X				13.04										
US 65	602+00.00	605+60.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.60										
US 65	602+00.00	605+60.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X				3.60										
US 65	602+00.00	605+60.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.60										
US 65	602+00.00	605+60.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X				3.60										
US 65	605+60.00	607+04.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					1.44									
US 65	605+60.00	607+04.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X				1.44										
US 65	605+60.00	644+00.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	38.40													
US 65	605+60.00	644+00.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X	38.40													
US 65	642+50.00	650+10.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				7.60										
US 65	642+50.00	650+10.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X				7.60										
US 65	642+50.00	644+00.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					1.50									
US 65	642+50.00	644+00.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X					1.50									
US 65	644+00.00	647+70.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.70										
US 65	644+00.00	647+70.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X				3.70										

PAVEMENT MARKING LINE TYPES

*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.
ELW6: Edge Line Right (White) @ 1.00
ELY6: Edge Line Left (Yellow) @ 1.00

See PM-110
***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

Location					Length by Line Type (Unfactored)																	Remarks		
Road ID	Station to Station		Dir. of Travel	Marking Type	Side			ELW6	ELY6															
					L	C	R																	
					STA	STA	STA																	
US 65	644+00.00	647+70.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					3.70												
US 65	644+00.00	647+70.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X					3.70												
US 65	647+70.00	650+10.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X								2.40									
US 65	647+70.00	650+10.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X								2.40									
US 65	650+10.00	661+85.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	11.75																
US 65	650+10.00	661+85.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X	11.75																
US 65	661+85.00	670+37.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X						8.52											
US 65	661+85.00	670+37.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X						8.52											
US 65	664+60.00	668+90.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					4.30												
US 65	664+60.00	668+90.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X					4.30												
US 65	664+60.00	668+90.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					4.30												
US 65	664+60.00	668+90.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X					4.30												
US 65	668+90.00	670+50.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X							1.60										
US 65	668+90.00	670+50.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X							1.60										
US 65	668+90.00	678+94.21	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X						10.04											
US 65	668+90.00	678+94.21	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X						10.04											
US 65	1678+95.02	1679+40.00	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X						0.45											
US 65	1678+95.02	1679+40.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X						0.45											
US 65	421+00.00	678+94.21	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X				257.94															
US 65	421+00.00	678+94.21	NB	GROOVES CUT FOR PAVEMENT MARKINGS	X				257.94															
US 65	1678+95.02	1679+15.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X				0.20															
US 65	1678+95.02	1679+15.00	NB	GROOVES CUT FOR PAVEMENT MARKINGS	X				0.20															
US 65	421+00.00	664+80.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X				243.80														
US 65	421+00.00	664+80.00	NB	GROOVES CUT FOR PAVEMENT MARKINGS		X				243.80														
US 65	421+00.00	423+75.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X						2.75											
US 65	421+00.00	423+75.00	NB	GROOVES CUT FOR PAVEMENT MARKINGS			X						2.75											
US 65	421+00.00	422+25.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					1.25												
US 65	421+00.00	422+25.00	NB	GROOVES CUT FOR PAVEMENT MARKINGS			X					1.25												
US 65	421+00.00	422+25.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					1.25												
US 65	421+00.00	422+25.00	NB	GROOVES CUT FOR PAVEMENT MARKINGS			X					1.25												
US 65	422+25.00	423+75.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X							1.50										
US 65	422+25.00	423+75.00	NB	GROOVES CUT FOR PAVEMENT MARKINGS			X							1.50										
US 65	422+25.00	455+15.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	32.90																
US 65	422+25.00	455+15.00	NB	GROOVES CUT FOR PAVEMENT MARKINGS			X	32.90																
US 65	453+65.00	466+75.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X						13.10											
US 65	453+65.00	466+75.00	NB	GROOVES CUT FOR PAVEMENT MARKINGS			X						13.10											
US 65	453+65.00	455+15.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X							1.50										
US 65	453+65.00	455+15.00	NB	GROOVES CUT FOR PAVEMENT MARKINGS			X						1.50											
US 65	455+15.00	458+85.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					3.70												
US 65	455+15.00	458+85.00	NB	GROOVES CUT FOR PAVEMENT MARKINGS			X					3.70												
US 65	455+15.00	458+85.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					3.70												
US 65	455+15.00	458+85.00	NB	GROOVES CUT FOR PAVEMENT MARKINGS			X					3.70												
US 65	466+75.00	595+90.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	129.15																
US 65	466+75.00	595+90.00	NB	GROOVES CUT FOR PAVEMENT MARKINGS			X	129.15																
US 65	595+90.00	603+50.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X						7.60											
US 65	595+90.00	603+50.00	NB	GROOVES CUT FOR PAVEMENT MARKINGS			X						7.60											
US 65	595+90.00	598+30.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X								2.40									
US 65	595+90.00	598+30.00	NB	GROOVES CUT FOR PAVEMENT MARKINGS			X								2.40									
US 65	598+30.00	602+00.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					3.70												
US 65	598+30.00	602+00.00	NB	GROOVES CUT FOR PAVEMENT MARKINGS			X					3.70												
US 65	598+30.00	602+00.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					3.70												
US 65	598+30.00	602+00.00	NB	GROOVES CUT FOR PAVEMENT MARKINGS			X					3.70												
US 65	602+00.00	603+50.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X							1.50										
US 65	602+00.00	603+50.00	NB	GROOVES CUT FOR PAVEMENT MARKINGS			X							1.50										
US 65	602+00.00	643+15.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	41.15																

ELW6: Edge Line Right (White) @ 1.00										ELY6: Edge Line Left (Yellow) @ 1.00													
Location				Length by Line Type (Unfactored)																		Remarks	
Road ID	Station to Station		Dir. of Travel	Marking Type	Side			ELW6	ELY6														
					L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA		STA
US 65	664+30.00	678+94.21	NB	GROOVES CUT FOR PAVEMENT MARKINGS			X	14.64															
US 65	1678+95.02	1679+15.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	0.20															
US 65	1678+95.02	1679+15.00	NB	GROOVES CUT FOR PAVEMENT MARKINGS			X	0.20															
				Factored Total: PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED				1321.40	1563.35	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Factored Total: PAVEMENT MARKINGS REMOVED				13.45	13.45	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Factored Total: GROOVES CUT FOR PAVEMENT MARKINGS				435.98	516.63	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Bid Quantity: 2527-9263209 - PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED																		2884.75	
				Bid Quantity: 2527-9263181 - PAVEMENT MARKINGS REMOVED																		26.90	
				Bid Quantity: 2527-9270112 - GROOVES CUT FOR PAVEMENT MARKINGS																		952.62	

	Interstate Highway Symbol
	U.S. Highway Symbol
	Iowa Highway Symbol
	County Road Highway Symbol
	Evergreen Tree
	Deciduous Tree
	Fruit Tree
	Shrub (Bushes)
	Timber
	Hedge
	Stump
	Swamp
	Rock Outcrop
	Broken Concrete
	Revetment (Rip Rap)
	Cemetery
	Grave
	Cave
	Sink Hole
	Board Fence
	Chain Link or Security Fence
	Wire Fence
	Terrace
	Earth Dam or Dike (Existing)
	Tile Outlet
	Edge of Water
	Existing Drainage
	Right of Way Rail or Lot Corner
	Concrete Monument
	Well
	Windmill
	Beehive Intake
	Existing Intake
	Existing Utility Access (Manhole)
	Fire Hydrant
	Water Hydrant (Rural)

	Septic Tank
	Cistern
	L.P. Gas Tank (No Footing)
	Underground Storage Tank
	Latrine
	Satellite TV Dish
	WHU Water Hook Up
	RT Radio Tower
	TA Tower Anchor
	Guardrail (Beam or Cable)
	GP Guard Post (one or two)
	Guard Post (over two)
	FP Filler Pipe
	GV Gas Valve
	WV Water Valve
	SL Speed Limit Sign
	MM Mile Marker Post
	SIGN Sign
	TCB Traffic Signal Control Box
	RRB Rail Road Signal Control Box
	TSB Telephone Switch Box
	EB Electric Box

LINEWORK		Design Color No.	
Green	(2)		Existing Topographic Features and Labels
Blue	(1)		Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)		Existing Utilities

SHADING		Design Color No.	Transparency
Pink, Dark	(13)		Temporary Pavement Shading
Yellow	(4)		Proposed Pavement Shading
Orange	(6)		Proposed Granular Shading
Orange	(70)		Proposed Shoulder Granular Shading
Yellow	(68)		Proposed Shoulder Paved Full Depth Shading
Yellow	(132)		Proposed Shoulder Paved Partial Depth Shading
Brown, Light	(236)		Grading Shading
Orange, Light	(134)		Proposed Granular Entrance Shading
Yellow	(220)		Proposed Paved Entrance Shading
Tan	(8)		Proposed Sidewalk Shading
Blue, Light	(230)		Proposed Sidewalk Landing Shading
Pink	(11)		Proposed Sidewalk Ramp Shading
Red	(3)		Proposed Structure Shading
Red	(3)		Delineates Restricted Areas

LINEWORK	Design Color No.	
Green	(10)	Existing Ground Line Profile
Blue	(1)	Proposed Profile and Annotation
Magenta	(5)	Existing Utilities
Blue, Light	(230)	Proposed Ditch Grades, Left
Black	(0)	Proposed Ditch Grades, Median
Rust	(14)	Proposed Ditch Grades, Right

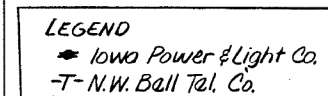
RIGHT-OF-WAY LEGEND

	Station	Reference Point	Survey Line
			Section Corner
			Ground Line Intercept
			Saw Cut
			Guardrail
			Trench Drain
			HighTension Cable Guardrail
			Sheet Pile
	Pavement Removal		Clearing & Grubbing Area

	Proposed Right-of-Way Symbol
	Proposed Right-of-Way Line
	Existing Right of Way
	Existing and Proposed Right-of-Way
	Easement and Existing Right-of-Way
	Easement (Temporary) Symbol
	Easement (Temporary) Line
	Easement
C/A	Access Control
	Property Line Symbol
	Property Line

(COVERS SHEET SERIES D, E, F, & K)

PROFILE	SURVEYED _____		BY _____	DATE _____
	PLOTTED _____			
	GRADES CHECKED _____			
	B. M.'S NOTED _____			
	STRUCTURE NOTATIONS AND NO. _____			



POLK COUNTY

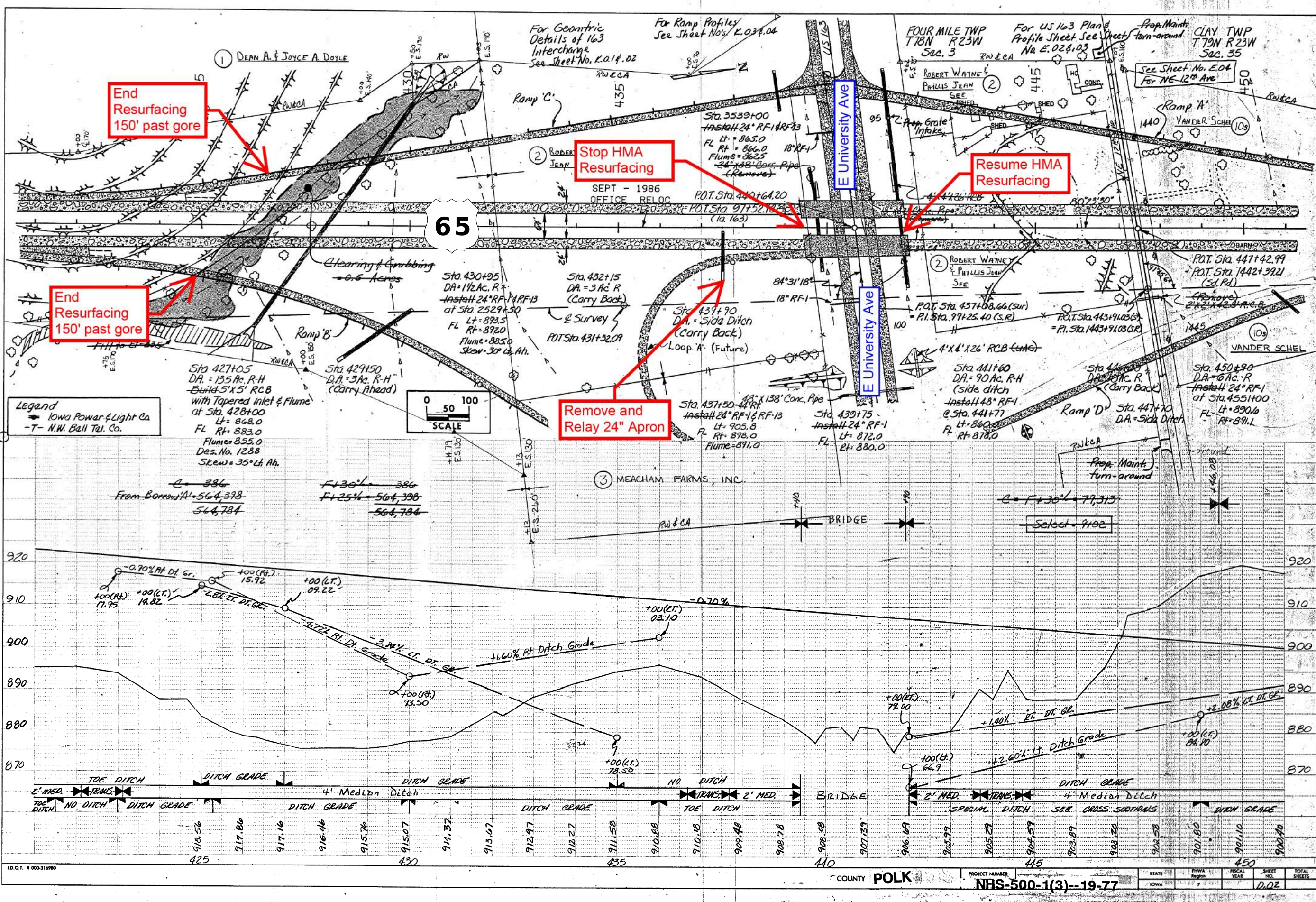
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STATE	FHWA Region	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
IOWA	7		D.01	

PLAN	DATE
DESIGNED BY	BY
CHECKED BY	BY
NOTED BY	BY
DATE	DATE

PROFILE	DATE
DESIGNED BY	BY
CHECKED BY	BY
NOTED BY	BY
DATE	DATE

BRUNING 44 131 65300
I.D.O.T. # 000-316990

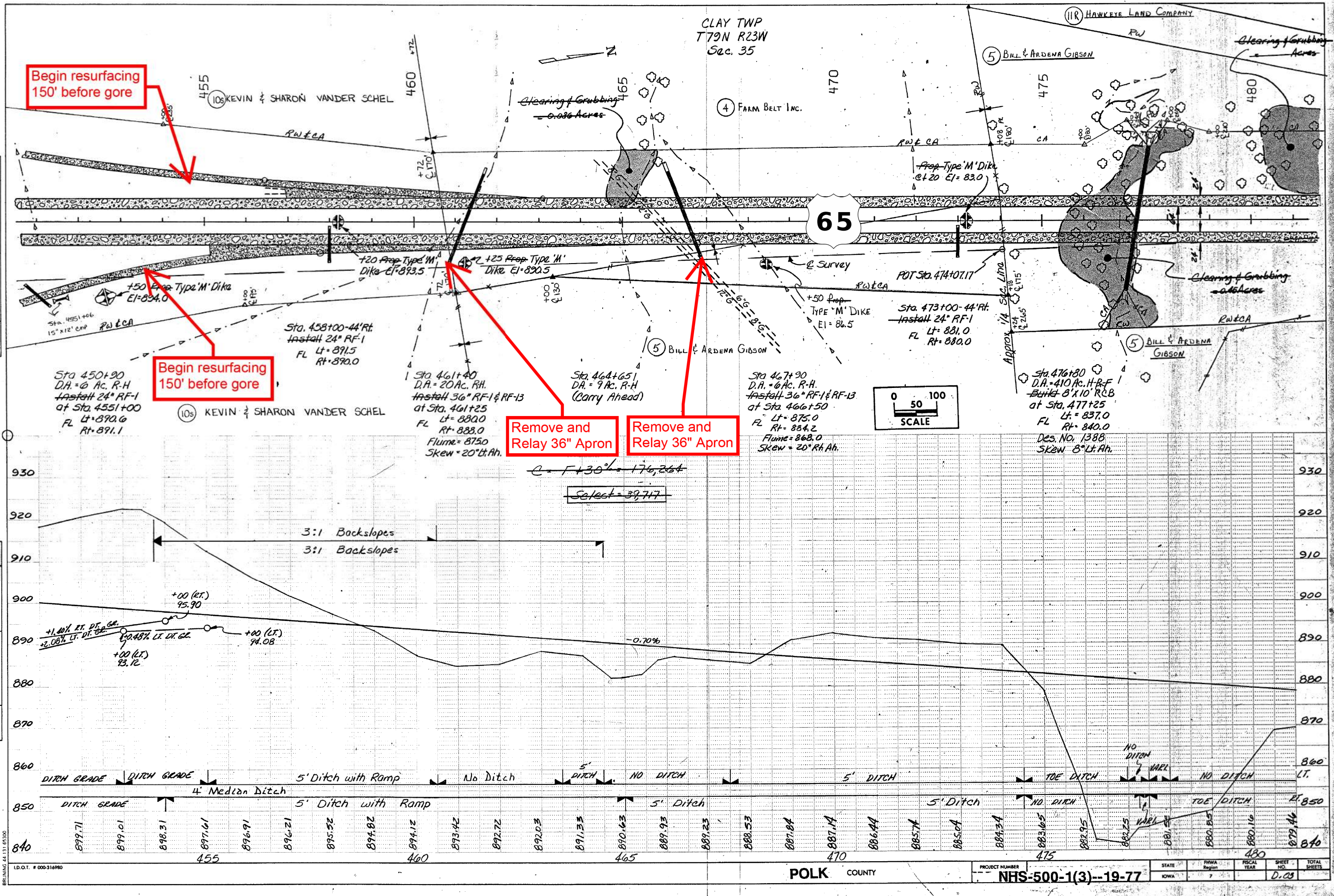


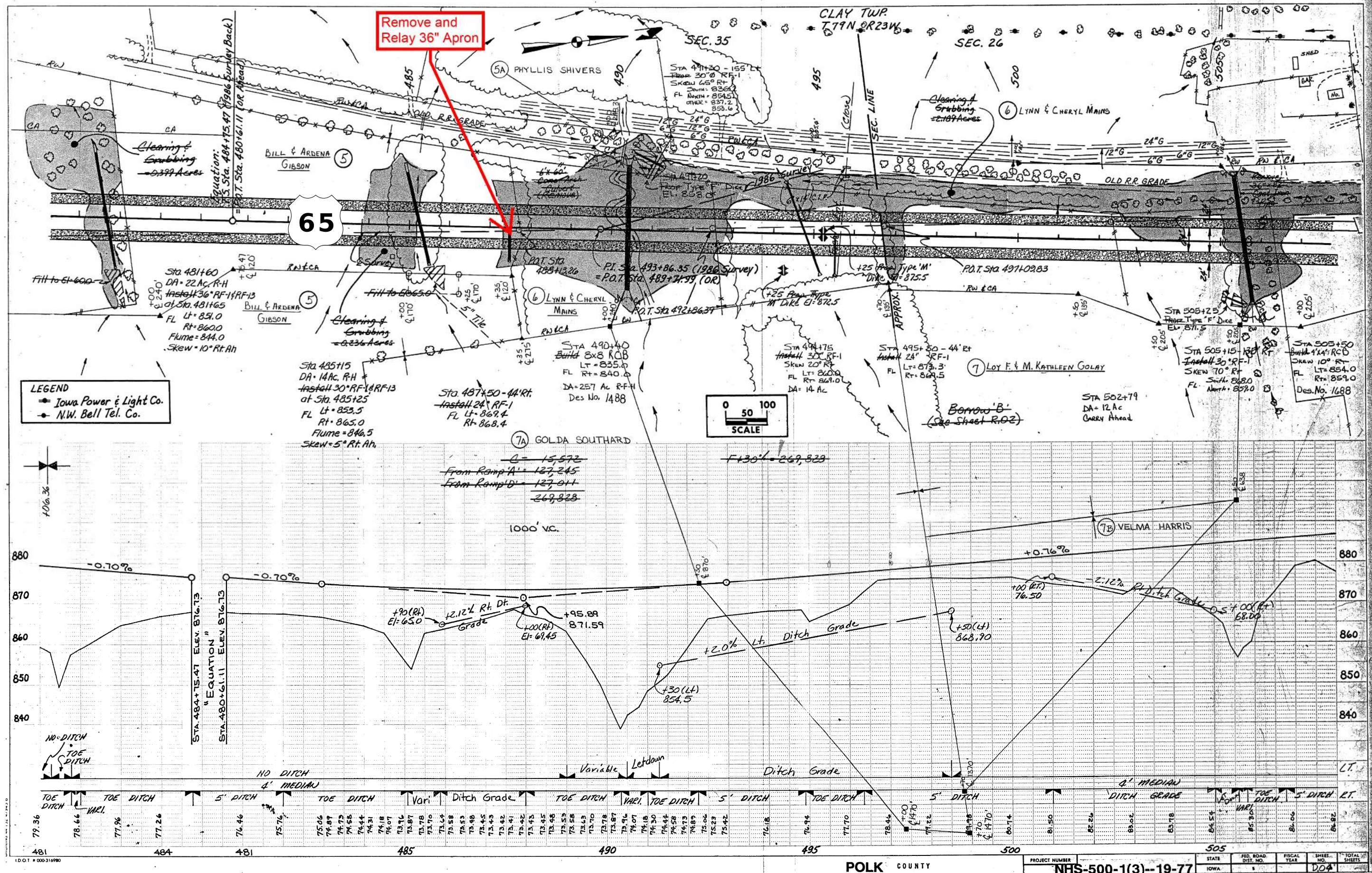
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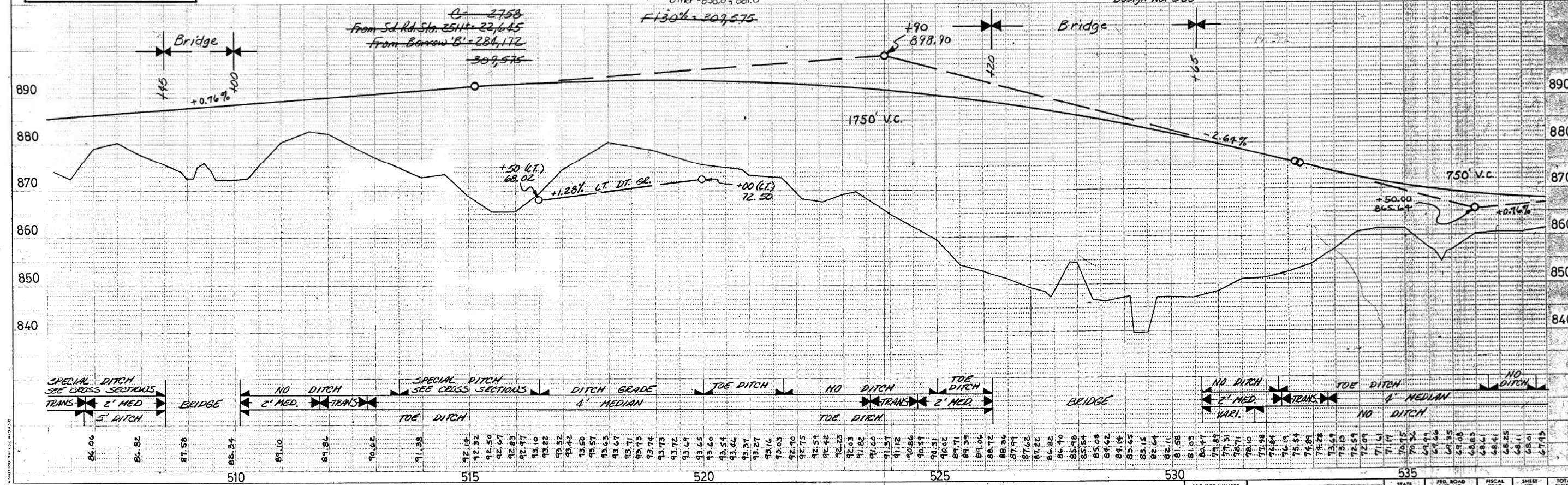
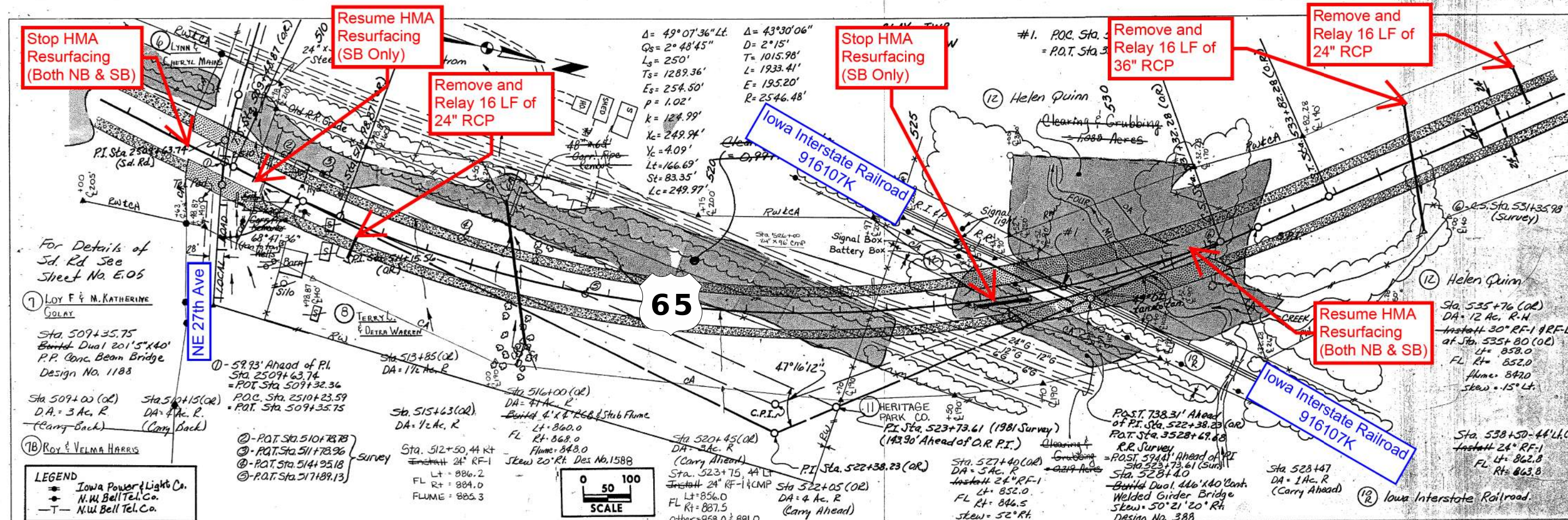
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PROFILE	DATE
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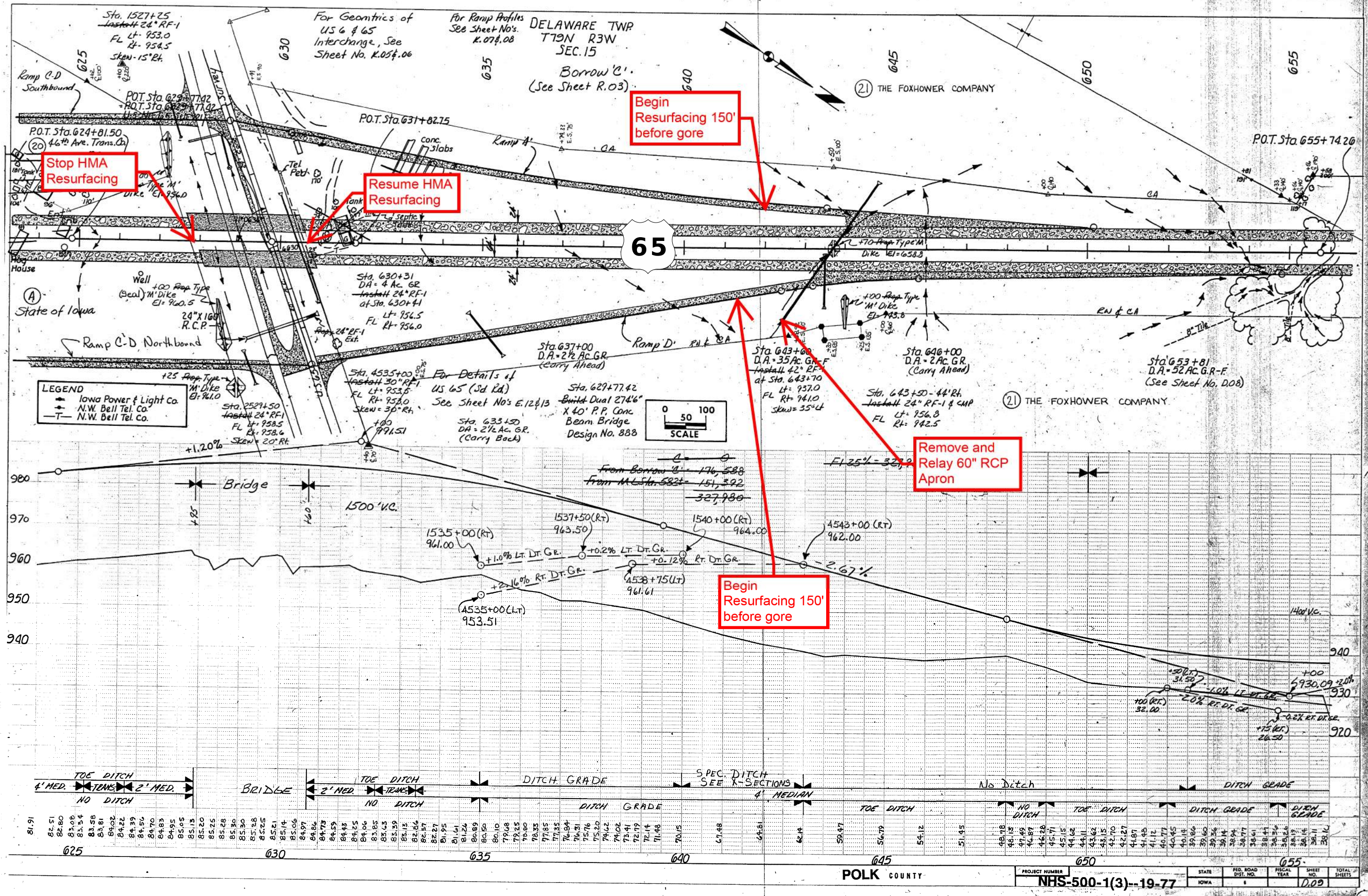
BRINING 441316390
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FILE NO.	ENGLISH	DESIGN TEAM	Vortherms/Adey	POLK COUNTY	PROJECT NUMBER	NHSX-065-4(181)--3H-77	SHEET NUMBER	D.6
11:45:10 AM	5/6/2026	badey	pw:\NTP\int1.dot.int.lan:PWMain\Documents\Projects\7706505025\DistrictDesign\77065181_D02.dgn					



2526.03 CONSTRUCTION SURVEY
MONUMENT PRESERVATION
COORDINATES PROVIDED

Coordinates of section corners, centerline control points, and lot corners of plats of survey/subdivision plats (if applicable) are provided below. The coordinate values were established utilizing the NAD83 (2011)(EPOCH 2010) datum, using the Iowa Regional Coordinate System (IaRCS) Zone 8 projection, in U.S. survey feet. Template examples of U.S.P.L.S. Corner Certificates and Monument Preservation Certificates can be found on the "Consultant Resources" page of the Iowa Department of Transportation website (<https://iowadot.gov/consultants-contractors/consultant-resources/automation-tools>). The District Land Surveyor shall be given the opportunity to review the deliverable(s) before this item is accepted and cleared for payment.

CENTERLINE POINTS

POINT NUMBER	NORTHING	EASTING	ELEV. (APPROX.)	FEATURE CODE AND DESCRIPTION
JM02052026_1	7514259.30	18553078.26	900.00	CP PI 1686+30.49 SET HINGE NAIL
JS11242025_3015	7513609.82	18553423.36	970.33	CP POT STA 678+95_02_STA 1678+05_02 FD 5/8_ RE-ROD
JM02042026_2	7507345.43	18556752.01	900.00	CP PI 608+00.14 SET 5/8 RE-ROD FLUSH
JM02042026_1	7502823.55	18558935.70	900.00	CP PI 557+86.01
LW11132025_3016	7499986.27	18561300.84	877.77	CP PI STA 522+38_23 FD 5/8_ RE-ROD 18_ DEEP
JM02162026_2	7495864.38	18560624.57	900.00	CP EQU STA 480+61.11 AH SET 5/8 RE-ROD 2 DEEP
JM02252026_3	7489418.13	18559565.31	900.00	CP POT STA EQU 419+42.77AH
JM01212026_1	7487637.93	18559272.79	900.00	CP PI 397+62.58 SET 5/8 RE-ROD 2 DEEP

108-23A
08-01-08

TRAFFIC CONTROL PLAN

US 65 through traffic from the southern project limits to the US 6 interchange shall be maintained at all times.

US 65 traffic between US 6 and I-80 may be detoured when resurfacing the ramps and gores at the US 65 and I-80 interchange.

Traffic control on this project shall be in accordance with the Standard Road Plans in Tab. 105-4 located in the C Sheets. Refer to J Sheets for allowable lane closure times. Traffic control devices shall not be placed prior to the allowed lane closure times and shall be fully removed prior to the end of the allowed lane closure time. Maximum lane closure length shall be four (4) miles.

All work requiring ramps to be closed will require a safety closure. No signed detours are required for the interchange ramp closures, but two PDMS boards per ramp closure shall be utilized as shown in TC-417. Interchange ramps closures shall follow the allowable lane closure times.

Anticipated interchange Ramp Closures:
All ramps at the US 65 and IA 163 interchange, all ramps at the US 65 and US 6/8th St SW interchange and all ramps at the I-80 and US 65 interchange. Per Standard Road Plan TC-417, all ramp closures must be submitted to the Engineer for approval at least 3 working days in advance of each ramp closures. Coordination with emergency services may be required for ramp closures. The Closure of consecutive entrance or exit ramps in the same direction will not be allowed unless otherwise directed by the Engineer.

The Engineer may not allow work during Special Events. Refer to Tab 102-15 Tabulation of Special Events for a list of possible dates and times.

111-01
04-17-12

COORDINATED OPERATIONS

Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

Project	Type of Work
NHSX-065-4(184)--3H-77	HMA Resurfacing with Milling
NHSX-006-4(208)--3H-77	HMA Resurfacing
IM-080-4(090)140--13-77	PCC Pavement - Replace

108-25
10-21-14

511 TRAVEL RESTRICTIONS

Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
US 65	NB	Polk	Within project limits		Traffic Control Device		Horizontal	24 feet	12 feet			
US 65	SB	Polk	Within project limits		Traffic Control Device		Horizontal	24 feet	12 feet			
US 65	NB	Polk	US 65 over IA 163	IA 163	Barrier	7779.4L065	Horizontal	24 feet	17 feet	N/A		Stg 1
US 65	SB	Polk	US 65 over IA 163	IA 163	Barrier	7779.4L065	Horizontal	24 feet	12 feet	13.5		Stg 2

102-15
08-01-08

TABULATION OF SPECIAL EVENTS

Event	Location	Date
The Salt Company Conference	Iowa Events Center	January 1-3, 2027
Iowa Pork Congress	Iowa Events Center	January 20-21, 2027
Iowa Ag Expo	Iowa Events Center	January 29-February 4, 2027
Netlynx Sports President's Day Challenge	MidAmerican Energy RecPlex	February 13-15, 2027
Boys State Wrestling Tournament	Casey's Center	February 17-20, 2027
Des Moines Home + Garden Show	Iowa Events Center	February 25-28, 2027
Iowa AAU Kids State Folkstyle Wrestling Championships	Iowa Events Center	February 26-28, 2027
Girls State Basketball Tournament	Casey's Center	March 1-6, 2027
Prince Hall Grand Lodge Grand Mastes & Masons	Des Moines Marriott Downtown	March 11-14, 2027
USA Wrestling Folkstyle Nationals	MidAmerican Energy RecPlex	March 12-14, 2027
American Society of Animal Science Midwest Meeting	Iowa Events Center	March 14-17, 2027
Iowa State 8 & 9 Ball Championships	Hy-Vee Hall	April 7-11, 2027
Amateur Athletic Twin Rivers Nationals Girls Wrestling	MidAmerican Energy RecPlex	April 9-11, 2027
AAU Middle School Wrestling Duals	MidAmerican Energy RecPlex	March 1-3, 2027
American Public Works Assn North American Snow Conference	Iowa Events Center	April 18-21, 2027
Drake Relays America's Athletic Classic	Drake Stadium	April 21-24, 2027
Midwest JVA Challenge	Hy-Vee Hall/MidAm Energy RecPlex	May 1-2, 2027
Iowa High School Co-Ed State Track Meet	Drake Stadium	May 20-22, 2027
CelebrASIAN	Western Gateway Park	
Principal Charity Classic	Wakonda Golf Course	
Downtown Farmers' Market	Historic Court District	Saturdays, May - October, 2027
Valley Junction Farmers Market	Historic Valley Junction	Thursdays, May - September, 2027
EMC DAM to DSM	Saylorville Dam & Cowles Commons	
Greek Food Fair	Greek Orthodox Church of St. George	
Iowa High School Boys State Soccer	James Cownie Soccer Park/Mediacom Stadium	June 1 - 5, 2027
USA Gymnastics Championship	Iowa Events Center	June 19-27, 2027
Iowa Craft Brew Festival	Water Works Park	
World Pork Expo	Iowa State Fairgrounds	June 9-10, 2027
Capital City Pride Fest	Historic East Village	
Iowa Juneteenth Observance	Greater Des Moines	

102-15
08-01-08

TABULATION OF SPECIAL EVENTS

Event	Location	Date
Des Moines Arts Festival	Western Gateway Park	
Yankee Doodle Pops	Iowa State Capitol	
GoodGuys Heartland Nationals	Iowa State Fairgrounds	
All Iowa Attack Center Stage	Iowa Events Center/MidAm Energy RecPlex	July 9-12, 2027
NTT INDYCAR Series	Iowa Speedway	
National Balloon Classic	Indianola Memorial Balloon Field	
Hinterland Music Festival	St. Charles, IA	
USA Triathlon Sprint, Olympic-Distance National Champions		August 5-8, 2027
American Bankers Assn Agricultural Bankers Conference	Iowa Events Center	August 14-18, 2027
Iowa State Fair	Iowa State Fairgrounds	August 12-22, 2027
World Food & Music Festival	Western Gateway Park	
GalaxyCon	Iowa Events Center	September 9-12, 2027
NRECA Region 5 & 6 Meeting	Iowa Events Center	September 13-16, 2027
Des Moines Streetstyle Open	Lauridsen Skatepark	
Iowa Latino Heritage Festival	Western Gateway Park	
Norman E. Borlaug International Symposium	The World Food Prize	October 12-16, 2027
WICSEC Annual Training Conference	Des Moines Marriott Downtown	October 18-22, 2027
IMT Des Moines Marathon	Downtown Des Moines	
USA Wrestling Preseason Nationals		October 28-31, 2027
Living History Farms Off Road Race	Living History Farms	
Des Moines Turkey Trot	Downtown Des Moines	
Disney on Ice	Wells Fargo Arena	
Festival of Trees & Lights	Iowa Events Center	
Holiday Promenade East Village	Historic East Village	
Iowa Dance & Drill Team Association State Team Competitio	Iowa Events Center	
Christkindlmarket Des Moines	Principal Park	

FILE NO.

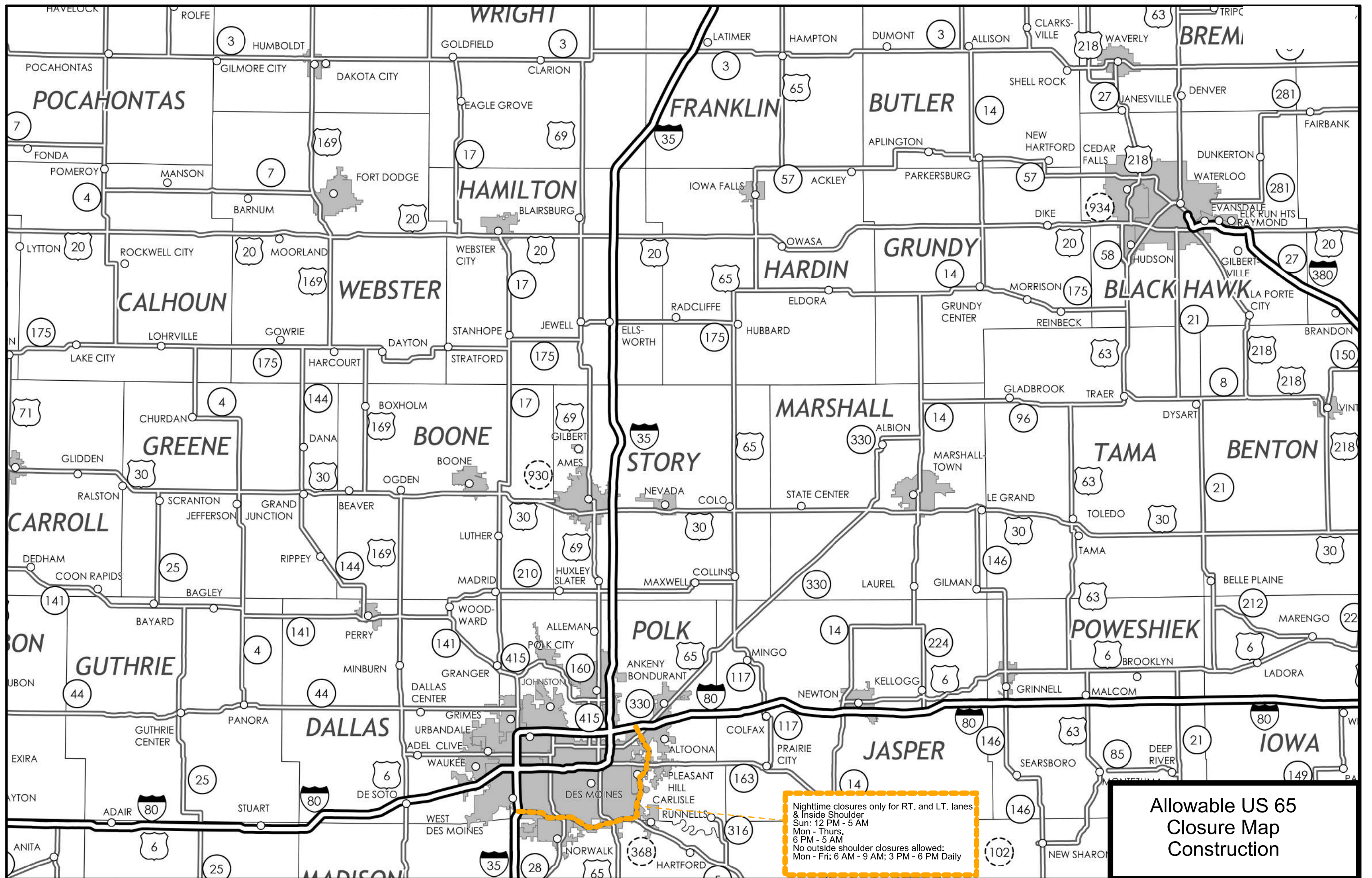
DESIGN TEAM VORTHERMS\ADEY

POLK COUNTY

PROJECT NUMBER NHSX-065-4(181)--3H-77

SHEET NUMBER J.1

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ESTIMATED BRIDGE REPAIR QUANTITIES				
ITEM NO.	ITEM CODE	ITEM	UNIT	TOTAL
1	2426-6772016	CONCRETE REPAIR	SF	80.7
2	2499-0800000	PAVING NOTCH REPLACEMENT	LF	80.7

ESTIMATE REFERENCE INFORMATION		
ITEM NO.	ITEM CODE	ITEM DESCRIPTION
1	2426-6772016	CONCRETE REPAIR The area of Structural Concrete Repair for the edge of deck is estimated, The Engineer may direct the Contractor to repair the edge of deck as necessary to eliminate deck deterioration at the ends of the bridge. Structural Concrete Repair on the deck may be deleted by the Engineer if deemed unnecessary.
2	2499-0800000	PAVING NOTCH REPLACEMENT Includes 5.6 CY of structural concrete Class C, 1291 lbs of epoxy-coated reinforcing steel, excavation, removing and disposing of the existing paving notch and concrete removed to form the shear keyways, drilling holes for dowel bars, and polymer grout material.

GENERAL NOTES:

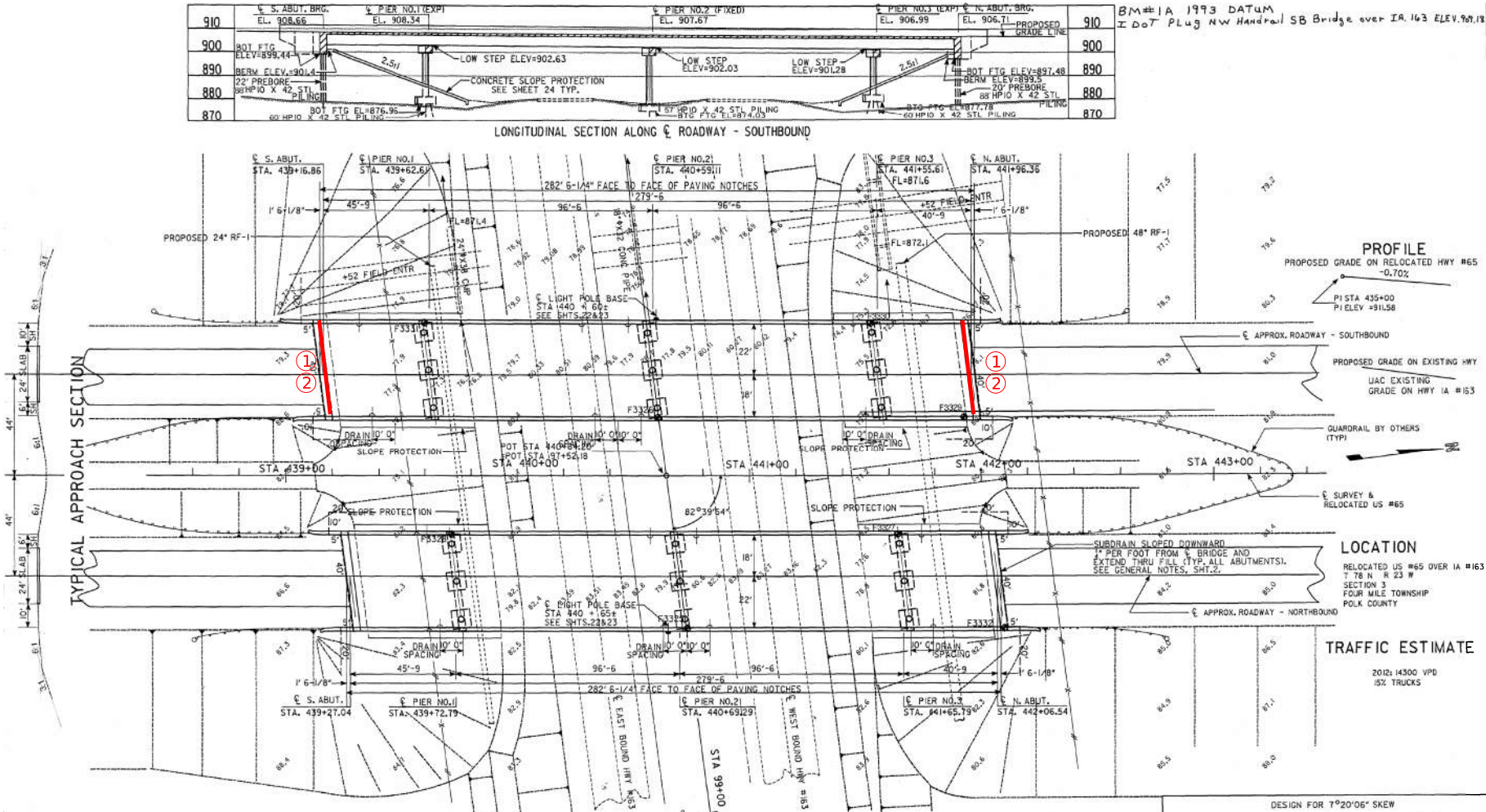
This design is for repairs to the existing 279'-6" x 40'-0" pretensioned prestressed concrete beam Southbound bridge on US-65 over IA-163. Electronic copies of original design plans are available to the contractor as part of the e-files supplied with the contract documents. Dimensions shown on these plans are based on original Design No. 588.

Repair shall consist of the following:

1. Remove and replace the paving notch at both abutments of the southbound (SB) bridge.
2. Perform concrete repairs on the vertical backface and top edge of deck at both abutments of the SB bridge.

All dimensions and details shown on these plans pertinent to new construction shall be verified in the field by the contractor before starting construction.

Faint lines on plans indicate existing portions of the bridge.



This Situation Plan from Original Design Plans is Included For Information Only.

- ① Remove and replace Paving Notch at both Abutments of the SB bridge.
- ② Concrete repair at end of Deck of the SB bridge (Approx. 40.35 S.F. per abutment estimated).

Location

Southbound US 65 over IA163
In City of Pleasant Hill
T-78N R-23W
Section 3
Four Mile Township
Polk County
FHWA No. 601200
Bridge Maint. No. 7779.4L065
Latitude 41.599192°
Longitude -93.497722°

Design History at this Site

Des. No.	Type of Work
588	Original Design
927	Paving Notch Replacement

Structural Design



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signature: *Majellen C. Pitcher* Date: 06-23-2026
Printed or Typed Name: Majellen C. Pitcher
My license renewal date is December 31, 2026

Pages or sheets covered by this seal: V.1-V.3

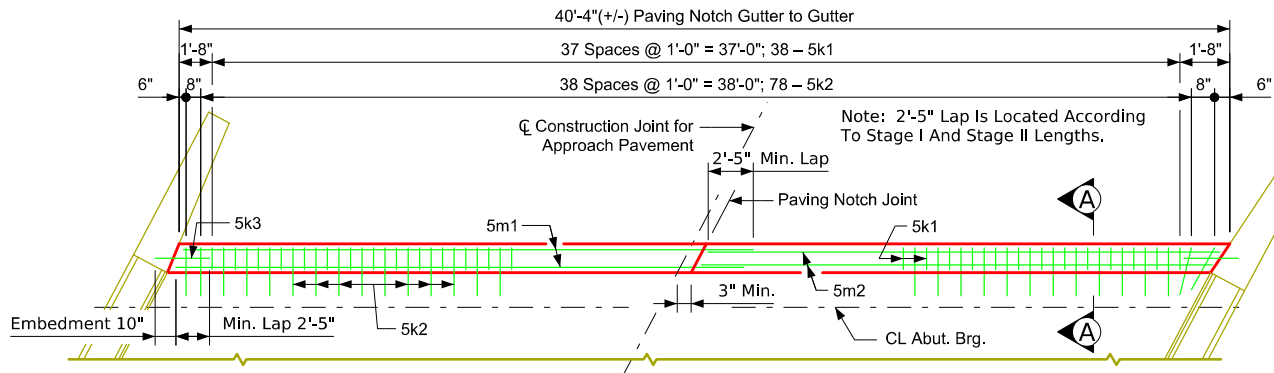
Design For Repair to a 7°20'06" Skew R.A.
279'-6" x 40'-0" Pretensioned Prestressed
South Bound Concrete Beam Bridge
40'-9" & 45'-9" End Spans 96'-6" Interior Span
Notes and Quantities
STA. 440+64.20 (US 65) Turn-In Date: 09/01/2026

Polk County

IOWA DEPARTMENT OF TRANSPORTATION
Design No. 0927 Design Sheet No. 1 of 3 FHWA No. 601200

FILE NO. 32802	ENGLISH	DESIGN TEAM MCP/RS/TWE	Polk COUNTY	PROJECT NUMBER NHSX-065-4(181)-3H-77	SHEET NUMBER V.1
SYSTEMTIME	SYSTEMDATE	USERNAME DGNSPEC			

Revised 07-2019: Changed Bent Ends (Hook Leg) of 5k1 Bar to 6" (Was 4 1/2"). Changed All References of "Slab" to "Deck". MiscellaneousBridges.dgn - 1068 - This Sheet Re-Issued 11-2023. Sheet Format Update.



Note: 5k3 bars shall be set as dowels embedding 10 inches minimum into the existing bridge wingwalls and extending a minimum of 2'-5" into the new paving notch replacement.

Part Plan View North (Far) Abutment South Abutment (Near) Similar

Note: New Paving Notch Replacement should extend from bridge wingwall to bridge wingwall.

Part Plan View At Abutment

Note: New paving notch replacement should extend from bridge wingwall to bridge wingwall.

Note:
Use "BR-203" Approach Pavement
Standard for Moveable Abutment.

Paving Notch Replacement Notes:

The Paving Notch Replacement is to be Class "C" structural concrete.

Minimum clear distance from face of concrete to near reinforcing bar is to be 2", unless otherwise noted or shown.

The bid item "Paving Notch Replacement" linear feet, shall include all costs of labor and materials associated with excavation, removing, and disposing of the existing paving notch, granular backfill and compaction as needed, and installing the new paving notch. This work shall include, cutting of the existing #4 bars, removing the concrete for the shear keyways, drilling the holes for the deformed dowels, and constructing the new notch to the dimensions shown. The new notch is estimated at 0.07 cubic yards per foot of structural concrete and 16.0 pounds of epoxy coated reinforcing steel per foot.

Removals shall be in accordance with Section 2401, of the Standard Specifications.

These bridge plans label all reinforcing steel with English notation (5a1 is 5/8 inch diameter bar). English reinforcing steel received in the field may display the following "Bar Designation". The "Bar Designation" is the stamped impression on the reinforcing bars, and is equivalent to the bar diameter in millimeters.

English size	3	4	5	6	7	8	9	10	11
Bar designation	10	13	16	19	22	25	29	32	36

Dowel Setting Note:

The deformed 5k2 & 5k3 bars shall be set as dowels in drilled holes. Holes are to be 10" deep. Polymer grout system shall be used to install the deformed dowel bars in accordance with Article 2301.03,E, of the Standard Specifications and the Grout Manufacturer's recommendations.

Specifications:

Design:

AASHTO Series of 2002

Construction:

Iowa Department of Transportation Standard Specifications for Highway and Bridge

Construction, Series 2023, plus applicable General Supplemental Specifications,

Developmental Specifications, Supplemental Specifications and Special Provisions shall

apply to construction work on this project.

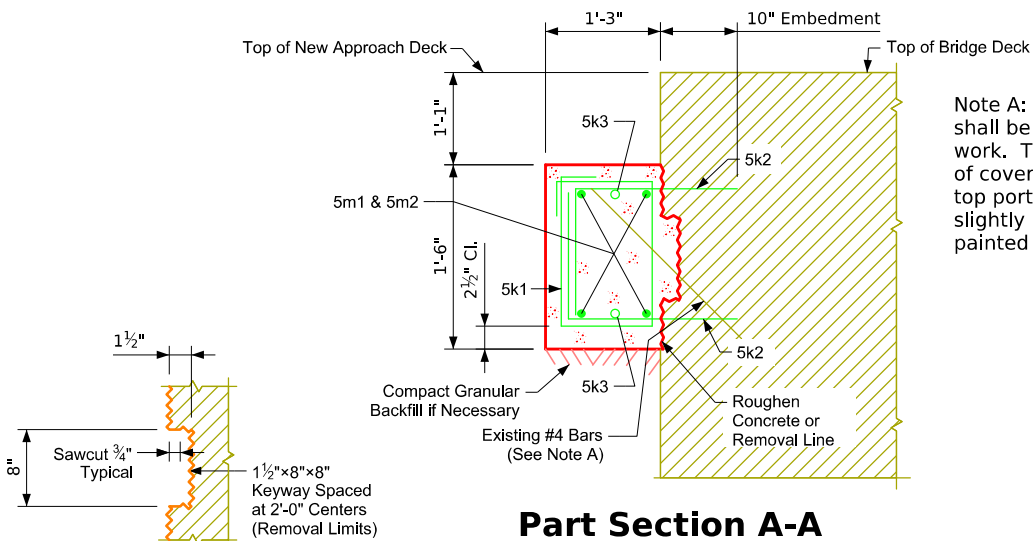
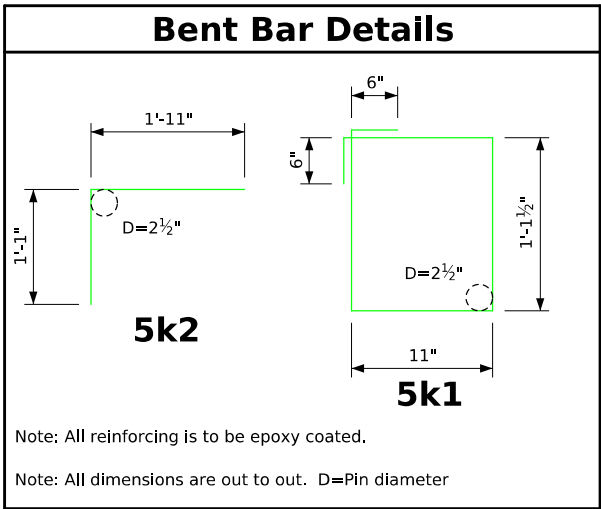
Design Stresses:

Design stresses for the following materials are in accordance with the AASHTO

Standard Specifications for Highway Bridges, Series of 2002.

Reinforcing steel in accordance with Section 8, Grade 60.

Concrete in accordance with Section 8, f'c = 4.0 KSI.



1 1/2" x 8" Keyway Detail

Note: Dowels shall be placed to miss any existing reinforcing steel exposed during removals.

Design For Repair to a 7°20'06" Skew R.A.

**279'-6" x 40'-0" Pretensioned Prestressed
South Bound Concrete Beam Bridge**

40'-9" & 45'-9" End Spans 96'-6" Interior Span

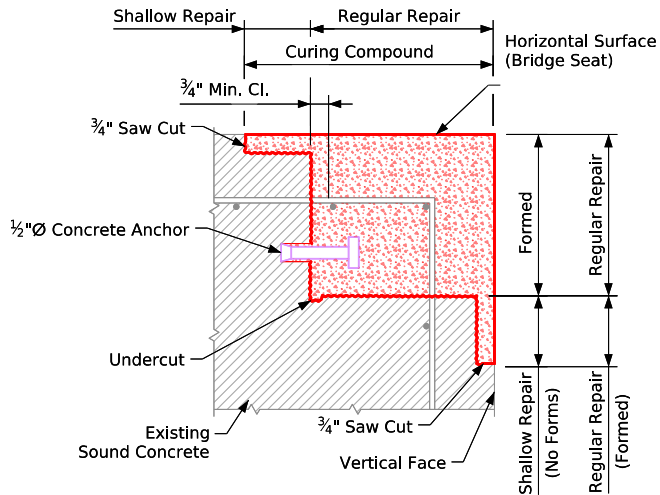
Paving Notch Replacement

STA. 440+64.20 (US 65) Turn-in Date: 09/01/2026

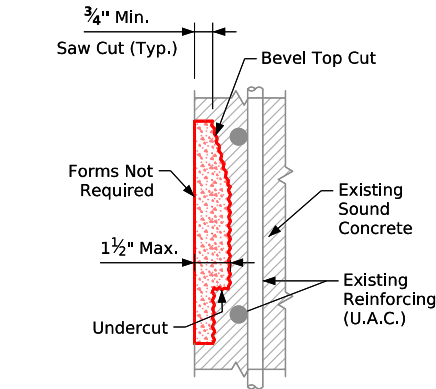
Polk County

IOWA DEPARTMENT OF TRANSPORTATION

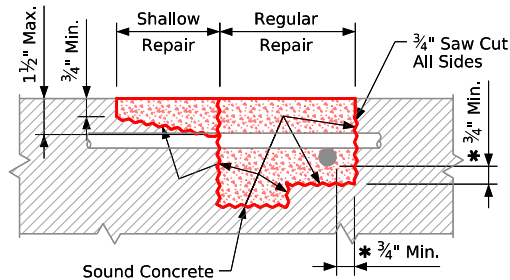
Design No. 0927 Design Sheet No. 2 of 3 FHWA No. 601200



Corner Repair

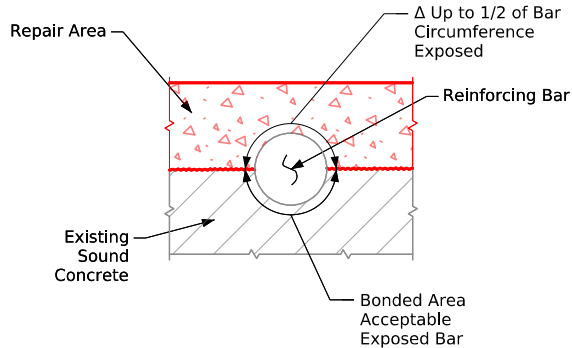


Shallow Repair Vertical Face

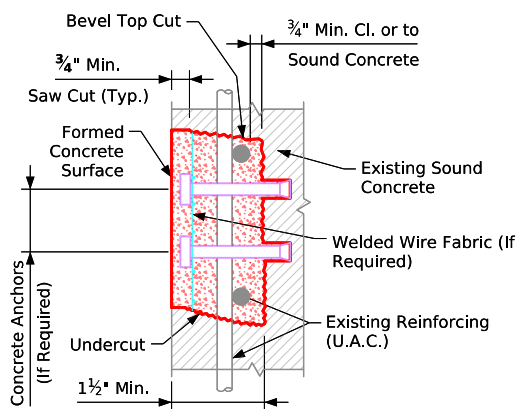


Repair Definition

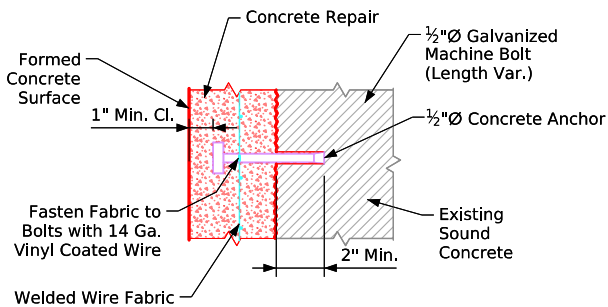
* Indicates Clearance for an Un-Bonded Rebar.



Delta If more than 1/2 of the rebar is exposed it shall be treated as an un-bonded rebar.

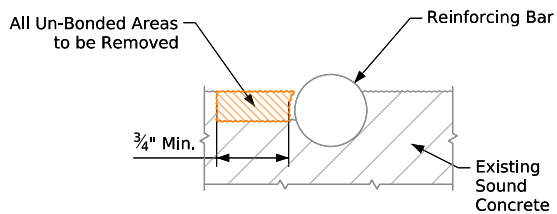


Regular Repair Vertical Face



Anchor Detail

For Spacing and Use of Concrete Anchors and WWF See the Repair Notes.



Concrete Removal Adjacent to Reinforcing

Repair Notes:

- The spalled and hollow areas of this bridge as noted and shown in these plans shall be repaired as follows:
- All the costs of equipment and materials required to repair the spalled and hollow areas of this bridge shall be included in the price bid for "Concrete Repair".
 - The price bid for "Concrete Repair" shall include the cost of all concrete anchors and welded wire fabric required by the plans.
 - The Engineer shall determine and outline by visual and audible inspection the actual areas of the concrete repairs. The Contractor shall be paid for the actual amount of repairs made on a square foot basis based on the price bid per square foot.
 - All existing reinforcing bars that are exposed by the concrete removal shall be cleaned and carefully incorporated into the new work, except badly deteriorated existing reinforcing which shall be replaced as directed by the Engineer.
 - The concrete anchors required shall have a minimum pull out of 5,000 lbs based on 4,000 psi concrete. An anchor meeting the requirements of Iowa D.O.T. Materials I.M. 453.09 and the pull out load above is required. The anchors shall be galvanized and shall be installed according to recommendations of the Manufacturer. The cost of furnishing and installing the concrete anchors shall be included in the price bid for "Concrete Repair".
 - The welded wire fabric shall be ASTM A185 and galvanized as per ASTM A-641. The WWF wires shall be spaced 3x3 or 4x4 and the wires shall have a nominal area of 0.014 to 0.029 sq in inclusive, example "WWF 3x3 - W1.4xW2.9".
 - Where reinforcement has been exposed and clearance around the periphery of the existing bar is provided, no supplemental reinforcing is required, except where existing reinforcement density and pattern are such that individual open space between bars are of 1.5 sq ft or larger. For this condition 1/2 inch diameter concrete anchors and welded wire fabric shall be installed at the rate of one concrete anchor with WWF per each 1.5 sq ft of area within each open space.

Repairing the structural concrete shall be in accordance with Section 2426, of the Standard Specifications.

In addition to the Specification 2426, the following requirements of the patching material are necessary for the concrete repairs:

- When Class O concrete is used, scrub a cement-sand-water grout of creamy consistency onto patch surface, including edges. Grout shall consist of two parts Type I or Type I/II Portland cement and one part sand mixed with water. Mix grout by mechanical means. Place patch material before grout dries. If grout dries before placement of patch material, clean patch area again by sandblasting and air blasting, then reapply grout.
- Thoroughly trowel patching material into patch edges to ensure a good bond and seal. Ensure that all saw cuts extending beyond the patch area are filled with patching material to prevent water from getting around or under the patch.
- Match profile of patches to the existing deck grade and cross slope. Texture the surface of patches to match the adjacent deck surface.
- Prior to final acceptance, the patch shall be level with the adjacent pavement and have a smooth riding surface.

Concrete Placement Quantities

Mark	Type	Units	Quantity
	Shallow repair	Sq. Ft.	80.7
	Regular repair		
Total (Sq. Ft.)			80.7

Estimated Concrete Repair Quantities

Description	Units	Amount
Concrete Repair	Sq. Ft.	80.7

Note:

The areas of repair are roughly estimated between shallow repair and regular repair. The limits of shallow and regular depths shall be determined in the field.

Design For Repair to a 7°20'06" Skew R.A.

279'-6" x 40'-0" Pretensioned Prestressed South Bound Concrete Beam Bridge

40'-9" & 45'-9" End Spans 96'-6" Interior Span

Concrete Repairs

STA. 440+64.20 (US 65) Turn-In Date: 09/01/2026

Polk County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 0927 Design Sheet No. 3 of 3 FHWA No. 601200