Seal Coat
LETTING DATE Nov 17 2026
STPN-015-1(016)--2J-76
POCAHONTAS/HUMBOLDT COUNTY

INDEX OF SHEETS	
No.	DESCRIPTION
A Sheets	**Title Sheets**
A.1	Title Sheet
A.2	Location Map Sheet
A.3	Detour Map
B Sheets	**Typical Cross Sections and Details**
B.1	Typical Cross Sections and Details
C Sheets	**Quantities and General Information**
C.1 - 2	Estimated Project Quantities
C.3	Project Description
C.4 - 17	Tabulations (beg. with tab. of incidentals if needed)
CS Sheets	**Soils Tabulations**
CS.1 - 5	Soils Tabulations
J Sheets	**Traffic Control and Staging Sheets**
J.1	Traffic Control Plan
J.2	Staging and Traffic Control Sheets
J.3	511 Travel Restrictions
J.4	Coordinated Operations
J*.5	Detour Map Signing
U Sheets	**500 Series, Mod.Stds. and Detail Sheets**
U*.1 - 2	500 Series, Modified Standards and Detail Sheets
	* Colored Plans

IOWA DOT

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM

POCAHONTAS/HUMBOLDT COUNTY

Seal Coat

Pine St in Rolfe to Co Rd C12

SCALES: As Noted

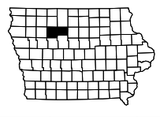
Refer to the Proposal Form for list of applicable specifications.

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

IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com
811 Know what's below. Call before you dig.

REVISIONS

	TOTAL 33
PROJECT IDENTIFICATION NUMBER	
25-76-015-010	
PROJECT NUMBER	
STPN-015-1(016)--2J-76	
R.O.W. PROJECT NUMBER	



DESIGN DATA RURAL			
2024	AADT	500	V.P.D.
2044	AADT	600	V.P.D.
20 –	DHV	–	V.P.H.
TRUCKS		17.6	%
Total Design ESALs		–	

ROLFE DESIGN DATA URBAN			
2024	AADT	350	V.P.D.
2044	AADT	420	V.P.D.
20 –	DHV	–	V.P.H.
TRUCKS		25	%
Total Design ESALs		–	

ROADWAY DESIGN

LICENSED PROFESSIONAL ENGINEER
JUSTIN M. POTTORFF
25733
IOWA

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.

Justin M Pottorff
Signature
09/01/2026
Date

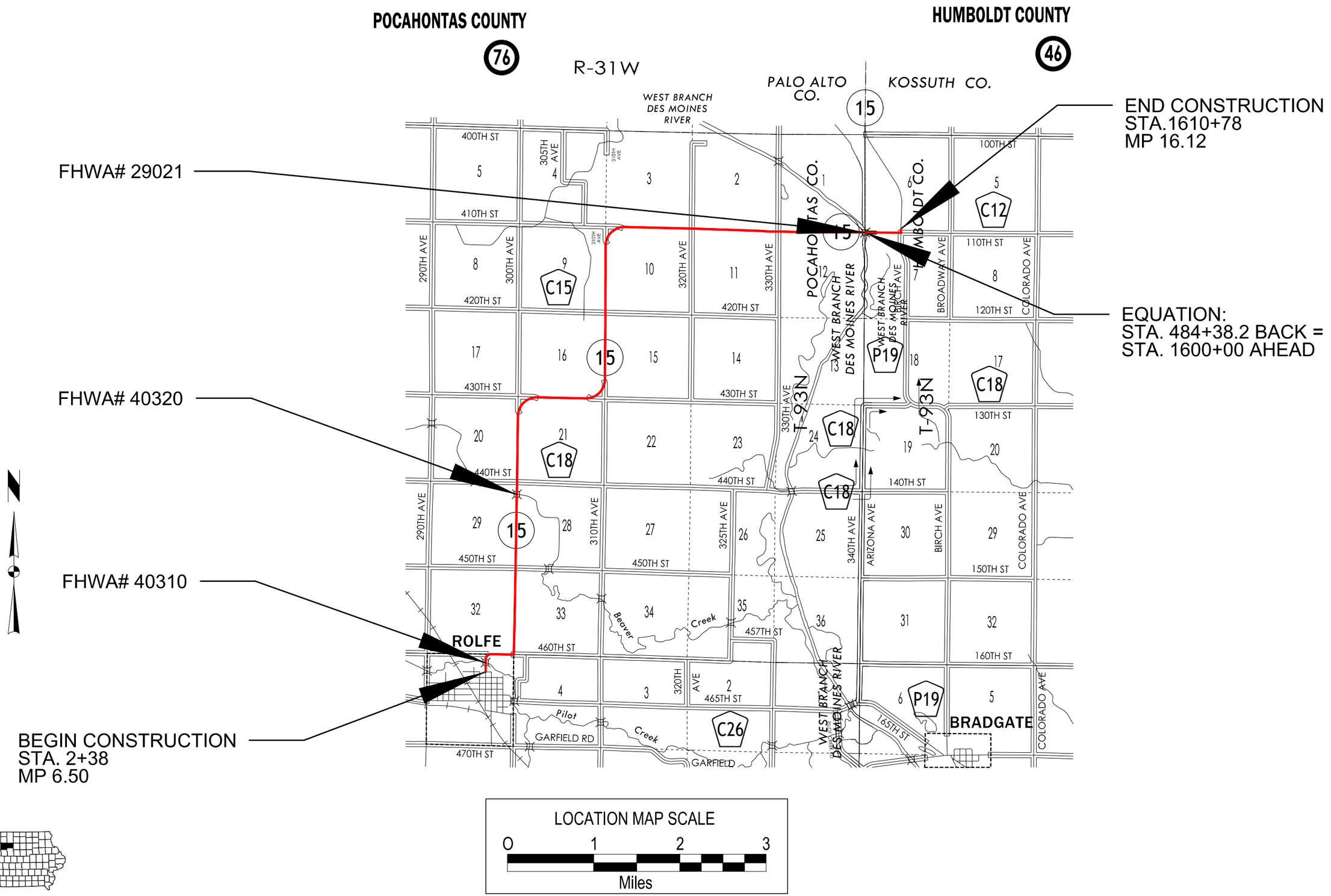
JUSTIN M. POTTORFF
Printed or Typed Name

My license renewal date is December 31, 2026

Pages or sheets covered by this seal: ALL

FILE NO.	ENGLISH	DESIGN TEAM DISTRICT 3	POCAHONTAS/HUMBOLDT COUNTY	PROJECT NUMBER STPN-015-1(016)--2J-76	SHEET NUMBER A.1

3:37:28 PM 8/31/2026 jprofer pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\7601501025\DistrictDesign\STPN-015-1(016)--2J-76\A SHEETS (016).dgn



FILE NO.	ENGLISH	DESIGN TEAM DISTRICT 3	POCAHONTAS/HUMBOLDT COUNTY	PROJECT NUMBER STPN-015-1(016)--2J-76	SHEET NUMBER A.2

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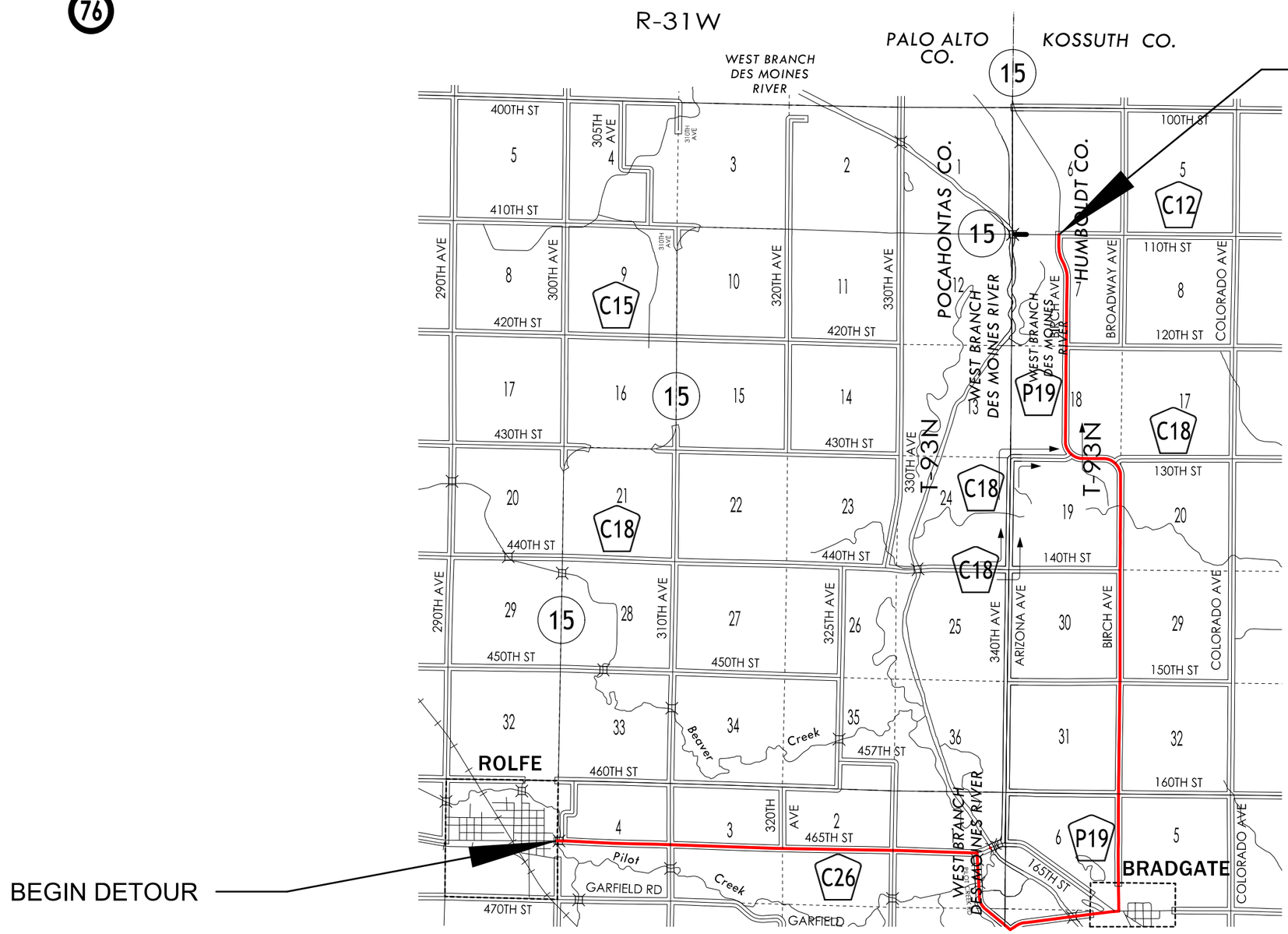
POCAHONTAS COUNTY

76

DETOUR MAP

HUMBOLDT COUNTY

46



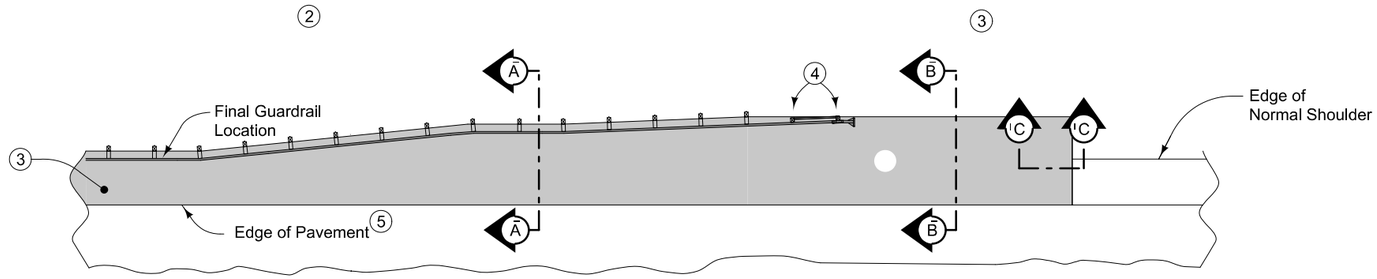
LOCATION MAP SCALE

0 1 2 3

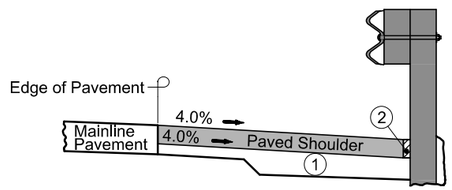
Miles

FILE NO.	ENGLISH	DESIGN TEAM DISTRICT 3	POCAHONTAS/HUMBOLDT COUNTY	PROJECT NUMBER STPN-015-1(016)--2J-76	SHEET NUMBER A.3	

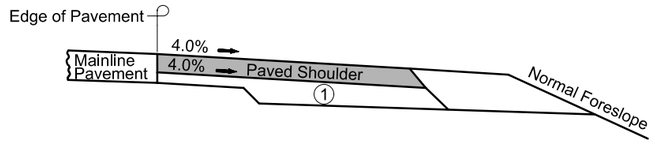
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PLAN VIEW

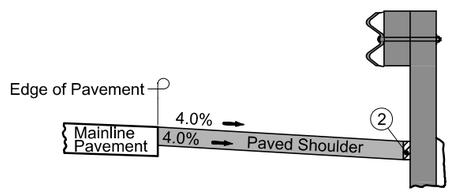


Section A-A

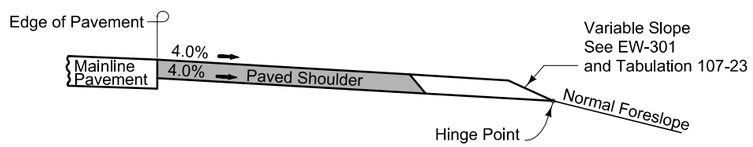


Section B-B

NEW CONSTRUCTION



Section A-A



Section B-B

EXISTING SHOULDER

7156
MODIFIED

8" PCC shoulder pavement 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.

Refer to Tabulation 112-9 for shoulder quantities.

(1) For subgrade treatment, refer to other details in the plan.

(2) 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. Refer to note 4 for final 2 posts.

(3) Continue paved shoulder to existing paved shoulder or 20 feet beyond the center of the first post.

(4) Shoulder may be notched for final 2 posts or post sleeves may be installed through pavement. Do not drive posts through pavement.

(5) 'KT-1 joint for PCC shoulder.
'B' joint for HMA shoulder.



Section C-C
Roll down at granular shoulder or earth.

PAVED SHOULDER AT GUARDRAIL

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Roadway Items : Roadway Items

Item no.	Item Code	Item	Unit	Quantities Estimated Roadway Items	Estimate Reference Notes
1	2102-0425071	SPECIAL BACKFILL	CY	88.4	Refer to Tabs 112-09.
2	2102-2625001	EMBANKMENT-IN-PLACE, CONTRACTOR FURNISHED	CY	558	Refer to Tab. 107-23.
3	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	124.9	Refer to Tab. 103-10. Quantity will be computed on the basis of a uniform 6 inch cut, or the depth as specified in the contract documents over the area involved. Sufficient field measurements will be taken to assure reasonable conformity with the required depth of cut.
4	2122-5190008	PAVED SHOULDER, P.C. CONCRETE, 8 IN.	SY	280.3	Refer to Tab. 112-09.
5	2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA	2.34	Refer to Tab. 112-09. Requires a minimum of 4 inches of topsoil. Place according to Article 2105.03,B of the Standard Specifications.
6	2306-1000000	ASPHALT EMULSION FOR FOG SEAL (PAVEMENT)	GAL	2,875.5	
7	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	LF	54,265	Refer to Tab 104-9A.
8	2502-8221305	SUBDRAIN OUTLET, DR-305	EACH	198	Refer to Tab 104-9A.
9	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL	LF	820	Refer to Tab. 110-07A.
10	2505-4008300	STEEL BEAM GUARDRAIL	LF	325	Refer to Tab. 108-08A.
11	2505-4008410	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION, BA-201	EACH	8	
12	2505-4021720	STEEL BEAM GUARDRAIL TANGENT END TERMINAL, BA-205	EACH	8	
13	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	2,820.8	Refer to Tab 108-22.
14	2527-9263225	PERMANENT TAPE MARKINGS, PREFORMED THERMOPLASTIC MARKING MATERIAL	STA	0.56	Refer to Tab 108-22.
15	2527-9270112	GROOVES CUT FOR PAVEMENT MARKINGS	STA	1,410.68	
16	2528-2518000	SAFETY CLOSURE	EACH	4	Refer to Tab 108-13A.
17	2528-8445110	TRAFFIC CONTROL	LS	1	Refer to Traffic Control Plan on Sheet J1.
18	2528-8445113	FLAGGERS	EACH	0	See Proposal.
19	2528-8445115	PILOT CARS	EACH	0	
20	2528-8445116	FLAGGER WITH AFAD	EACH	0	

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
21	2529-5070110	PATCHES, FULL-DEPTH FINISH, BY AREA	SY	73.8	Refer to Tab 102-6C.
22	2529-5070120	PATCHES, FULL-DEPTH FINISH, BY COUNT	EACH	6	
23	2533-4980005	MOBILIZATION	LS	1	- -
24	2548-0000310	MILLED CENTERLINE RUMBLE STRIPS, HMA SURFACE	STA	451.67	Refer to Tab 112-10.
25	2548-0000317	PENETRATING ENGINEERED EMULSION FOR FOG SEAL (CENTERLINE RUMBLE STRIPS)	SY	5,871.8	Refer to Tab 112-10. See Special Provisions for Penetrating Engineered Fog Seal for more information.
26	2599-9999006	('GALLONS' ITEM) Polymer Modified Rejuvinating Emulsion for Scrub Seal	GAL	53,676	See Special Provision for Polymer Scrub Seal for more information. Calculated with 12% overage rate.
27	2599-9999018	('SQUARE YARDS' ITEM) Area for Scrub Seal	SY	119,812	See Special Provision for Polymer Scrub Seal for more information.

100_01D

8/15/22

PROJECT DESCRIPTION

This is a scrub seal project on IA 15 from Pine St in Rolfe to Co Rd C12. Other work includes guardrail updates, subdrains, patching and painted pavement markings.

100_27
8/15/22

PROPOSED POSTED SPEED LIMIT

Line No.	Roadway Identification	Proposed Posted Speed	Remarks
1.0	IA 15	35 or less	MP 6.5 to MP 6.75
2.0	IA 15	40-45	MP 6.75 to MP 7.18
3.0	IA 15	over 45	MP 7.18 to MP 16.12

EXISTING PAVEMENT

Line No.	County	Route	Direction of Travel	Begin Ref. Location Sign	End Ref. Location Sign	Year	Type	Project Number	Surface Type	Surface Depth (IN)	Base Type	Base Depth (IN)	Subbase Type	Subbase Depth (IN)	Removal Type	Removal Depth (IN)	Coarse Aggregate Source	Coarse Aggregate Type	Course Aggregate Durability Class	Reinforcement Type	Remarks
1.0	76	IA-15	1	6.5	15.68	2023	M	MP-015-3(712)7--76-76													HMA crack filling
2.0	76	IA-15	1	6.5	15.68	2020	M	MP-000-3(734)0--76-00													HMA crack filling
3.0	76	IA-15	1	6.5	15.68	2003	V	MP-15-3(704)6--76-76	AAC	2.0							MOORE	C.LST.			
4.0	76	IA-15	1	6.5	15.68	1998	V	MP-15-3(703)7--76-76	AAC	2.0							MARTIN MARIETTA	C.LST.			VAR.LOC.
5.0	76	IA-15	1	6.5	15.68	1997	V	MP-15-3(702)7--76-76	AAC	2.0							HODGES QUARRY	C.LST.			
6.0	76	IA-15	1	6.5	15.68	1990		MP-15-3(1)7--76-76	BSC												SPOT STRENGTHENING 1997
7.0	76	IA-15	1	6.5	15.68	1968		FN-44-1(3)--21-76	BAC	1.0	TBB	2.5					BRADGATE	C.LST.			
8.0	76	IA-15	1	6.5	15.68	1958		F-1062(2) &F-1062(	BAC	3.0	RSB	8.0	SAS	6.0			GILMORE CITY-MW	C.LST.			
9.0	46	IA-15	1	15.68	17.33	1997	V	MP-15-3(702)7--76-76	AAC	2.0							HODGES QUARRY	C.LST.			
10.0	46	IA-15	1	15.68	17.33	1959		F-976(2)	PCC	7.0							GILMORE CITY-MW	C.LST.	I		

105_04
10/20/26

STANDARDS

The following Standards apply to construction work on this project.

Number	Date	Title
BA-200	10-20-26	Steel Beam Guardrail Components
BA-201	10-18-22	Steel Beam Guardrail Barrier Transition Section (MASH TL-3)
BA-202	10-20-26	Steel Beam Guardrail Bolted End Anchor
BA-205	10-17-23	Steel Beam Guardrail Tangent End Terminal (MASH TL-3)
BA-250	10-20-26	Steel Beam Guardrail Installation at Concrete Barrier or Bridge End Post (MASH TL-3)
DR-303	10-17-17	Subdrains (Longitudinal)
DR-305	04-19-22	Subdrain Outlets (Standard Subdrain, Pressure Release and Special)
DR-306	10-17-23	Precast Concrete Headwall for Subdrain Outlets
PM-110	10-15-24	Line Types
PM-111	04-21-20	Symbols and Legends
PM-115	10-20-26	Grooving for Line Types
PM-116	04-16-24	Grooving for Symbols and Legends
PR-103	10-21-25	Full Depth PCC Patch with Dowels
PV-13	10-20-26	Milled Centerline Rumble Strips
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-202	04-18-23	Work Within 15 ft of Traveled Way
TC-213	04-18-23	Lane Closure with Flaggers
TC-214	04-18-23	Lane Closure with Flaggers for use with Pilot Car
TC-231	04-18-23	Slow Moving Vehicle Operating in the Traffic Lane

8/31/2026 12:28:24 PM Joe.Profera@dot.iowa.gov

FULL-DEPTH PATCHES

Line No.	Count	Station	Reference Location Sign	Direction of Travel	Side	Length (FT)	Width (FT)	Patch Thickness (IN)	Patch Repair or Finish	PCC Patch Type	PCC Patch Quantity (SY)	HMA Patches (SY)	Composite HMA (TON)	Subbase Patches (PR-140) (SY)	Subbase Patch with 'EF' Joint (PR-101) (SY)	Anchor Lugs Removal (No.)	Remarks
1.0	2	191+45.00		NB	Both	6.0	11.0	14.0	Finish	PCC With Dowels (PR-103)	14.7						
2.0	2	191+60.00		NB	Both	10.0	11.0	14.0	Finish	PCC With Dowels (PR-103)	24.4						
3.0	1	192+79.00		NB	Left	15.0	12.0	14.0	Finish	PCC With Dowels (PR-103)	20.0						
4.0	1	279+43.00		NB	Right	12.0	11.0	14.0	Finish	PCC With Dowels (PR-103)	14.7						
Total	6										73.8						

PAVEMENT MARKING LINE TYPES

Line factors based on 6-inch wide continuous line.
*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - Estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY6 - Factor of 1.00 includes number of 6-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.17 | BCY6: Broken Centerline (Yellow) @ 0.25 | BLC6: Broken Line Contrast (White/Black) @ 0.50 | BLW4: Broken Lane Line (White) @ 0.17 | BLW6: Broken Lane Line (White) @ 0.25
CBW6: Crosswalk Bar (White) @ 10.00 | CHW8: Channelizing Line (White) @ 1.33 | CHW10: Channelizing Line (White) @ 1.67 | CHY8: Channelizing Line (Yellow) @ 1.33 | CHY10: Channelizing Line (Yellow) @ 1.67
CLW6: Crosswalk Line (White) @ 2.00 | DCY4: Double Centerline (Yellow) @ 1.34 | DCY6: Double Centerline (Yellow) @ 2.00 | DDY4: Double Dotted Line (Yellow) @ 0.44 | DDY6: Double Dotted Line (Yellow) @ 0.67
DLW4: Dotted Line (White) @ 0.22 | DLW6: Dotted Line (White) @ 0.33 | DLY4: Dotted Line (Yellow) @ 0.22 | DLY6: Dotted Line (Yellow) @ 0.33 | ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00 | ELY4: Edge Line Left (Yellow) @ 0.67 | ELY6: Edge Line Left (Yellow) @ 1.00 | LDW8: Lane Drop (White) @ 0.33 | LDW10: Lane Drop (White) @ 0.42
MNY6: Median Nose (Yellow) @ 1.00 | NPY4: No Passing Zone Line (Yellow) @ 0.84 | NPY6: No Passing Zone Line (Yellow) @ 1.25 | RLW4: Ramp Edge Line Right (White) @ 0.67 | RLW6: Ramp Edge Line Right (White) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67 | RLY6: Ramp Edge Line Left (Yellow) @ 1.00 | SLW2: Stop Line (White) @ 4.00 | SLW4: Solid Lane Line (White) @ 0.67 | SLW6: Solid Lane Line (White) @ 1.00
SPW4: Sloped Curb 4" (White) @ 2.16 | SPW6: Sloped Curb 6" (White) @ 2.28 | SPY4: Sloped Curb 4" (Yellow) @ 2.16 | SPY6: Sloped Curb 6" (Yellow) @ 2.28 | STW6: Standard Curb 6" (Yellow) @ 2.03
STY6: Standard Curb 6" (Yellow) @ 2.03 | YLW2: Yield Line (White) @ 1.15

Line No.	Road ID	Begin Ref. Location Sign	End Ref. Location Sign	Lane	Marking Type	Left	Center	Right	Groove Marking Needed?	Groove Qty. (STA)	BLW6 (STA)	BLW6 Factored (STA)	DCY6 (STA)	DCY6 Factored (STA)	ELW6 (STA)	ELW6 Factored (STA)	NPY6** (STA)	NPY6** Factored (STA)	SLW2 (STA)	SLW2 Factored (STA)	Remarks
26.0	IA 15	16.02	16.02	NB	Thermoplastic	X			Yes	0.56									0.14	0.56	PERMANENT PAINT
Total										0.56		0.00		0.00		0.00		0.00		0.56	
Marking Type : Thermoplastic Number of Records : 1																					
1.0	IA 15	6.5	6.57	NB	Waterborne/Solvent Paint		X		Yes	7.40			3.70	7.40							PERMANENT PAINT
2.0	IA 15	6.57	6.62	NB	Waterborne/Solvent Paint		X		Yes	3.30							2.64	3.30			PERMANENT PAINT
3.0	IA 15	6.62	7.06	NB	Waterborne/Solvent Paint		X		Yes	46.46			23.23	46.46							PERMANENT PAINT
4.0	IA 15	7.06	7.25	NB	Waterborne/Solvent Paint		X		Yes	12.54							10.03	12.54			PERMANENT PAINT
5.0	IA 15	7.25	7.75	NB	Waterborne/Solvent Paint		X		Yes	6.60	26.40	6.60									PERMANENT PAINT
6.0	IA 15	7.75	8.07	NB	Waterborne/Solvent Paint		X		Yes	21.13							16.90	21.13			PERMANENT PAINT
7.0	IA 15	8.07	8.39	NB	Waterborne/Solvent Paint		X		Yes	4.22	16.90	4.22									PERMANENT PAINT
8.0	IA 15	8.39	8.67	NB	Waterborne/Solvent Paint		X		Yes	18.47							14.78	18.47			PERMANENT PAINT
9.0	IA 15	8.67	9.09	NB	Waterborne/Solvent Paint		X		Yes	44.36			22.18	44.36							PERMANENT PAINT
10.0	IA 15	9.09	9.28	NB	Waterborne/Solvent Paint		X		Yes	12.54							10.03	12.54			PERMANENT PAINT
11.0	IA 15	9.28	9.66	NB	Waterborne/Solvent Paint		X		Yes	5.01	20.06	5.01									PERMANENT PAINT
12.0	IA 15	9.66	9.8	NB	Waterborne/Solvent Paint		X		Yes	9.24							7.39	9.24			PERMANENT PAINT
13.0	IA 15	9.8	10.06	NB	Waterborne/Solvent Paint		X		Yes	27.46			13.73	27.46							PERMANENT PAINT
14.0	IA 15	10.06	10.24	NB	Waterborne/Solvent Paint		X		Yes	11.88							9.50	11.88			PERMANENT PAINT
15.0	IA 15	10.24	10.58	NB	Waterborne/Solvent Paint		X		Yes	4.49	17.95	4.49									PERMANENT PAINT
16.0	IA 15	10.58	10.74	NB	Waterborne/Solvent Paint		X		Yes	10.56							8.45	10.56			PERMANENT PAINT
17.0	IA 15	10.74	10.97	NB	Waterborne/Solvent Paint		X		Yes	24.28			12.14	24.28							PERMANENT PAINT
18.0	IA 15	10.97	11.14	NB	Waterborne/Solvent Paint		X		Yes	11.23							8.98	11.23			PERMANENT PAINT
19.0	IA 15	11.14	12.45	NB	Waterborne/Solvent Paint		X		Yes	17.29	69.17	17.29									PERMANENT PAINT
20.0	IA 15	12.45	12.63	NB	Waterborne/Solvent Paint		X		Yes	11.88							9.50	11.88			PERMANENT PAINT
21.0	IA 15	12.63	12.84	NB	Waterborne/Solvent Paint		X		Yes	22.18			11.09	22.18							PERMANENT PAINT
22.0	IA 15	12.84	13.02	NB	Waterborne/Solvent Paint		X		Yes	11.88							9.50	11.88			PERMANENT PAINT
23.0	IA 15	13.02	15.93	NB	Waterborne/Solvent Paint		X		Yes	38.41	153.65	38.41									PERMANENT PAINT
24.0	IA 15	15.93	16.07	NB	Waterborne/Solvent Paint		X		Yes	9.24							7.39	9.24			PERMANENT PAINT
25.0	IA 15	6.5	16.07	NB	Waterborne/Solvent Paint	X		X	Yes	1010.59					1010.59	1010.59					PERMANENT PAINT
27.0	IA 15	16.07	16.12	NB	Waterborne/Solvent Paint	X	X	X	Yes	7.48					4.60	4.60	2.30	2.88			PERMANENT PAINT
1.0	IA 15	6.5	6.57	NB	Waterborne/Solvent Paint		X		Yes	7.40			3.70	7.40							TEMP PAINT AFTER MILLING
2.0	IA 15	6.57	6.62	NB	Waterborne/Solvent Paint		X		Yes	3.30							2.64	3.30			TEMP PAINT AFTER MILLING
3.0	IA 15	6.62	7.06	NB	Waterborne/Solvent Paint		X		Yes	46.46			23.23	46.46							TEMP PAINT AFTER MILLING
4.0	IA 15	7.06	7.25	NB	Waterborne/Solvent Paint		X		Yes	12.54							10.03	12.54			TEMP PAINT AFTER MILLING
5.0	IA 15	7.25	7.75	NB	Waterborne/Solvent Paint		X		Yes	6.60	26.40	6.60									TEMP PAINT AFTER MILLING
6.0	IA 15	7.75	8.07	NB	Waterborne/Solvent Paint		X		Yes	21.13							16.90	21.13			TEMP PAINT AFTER MILLING
7.0	IA 15	8.07	8.39	NB	Waterborne/Solvent Paint		X		Yes	4.22	16.90	4.22									TEMP PAINT AFTER MILLING
8.0	IA 15	8.39	8.67	NB	Waterborne/Solvent Paint		X		Yes	18.47							14.78	18.47			TEMP PAINT AFTER MILLING
9.0	IA 15	8.67	9.09	NB	Waterborne/Solvent Paint		X		Yes	44.36			22.18	44.36							TEMP PAINT AFTER MILLING
10.0	IA 15	9.09	9.28	NB	Waterborne/Solvent Paint		X		Yes	12.54							10.03	12.54			TEMP PAINT AFTER MILLING

PAVEMENT MARKING LINE TYPES

Line factors based on 6-inch wide continuous line.
*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - Estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY6 - Factor of 1.00 includes number of 6-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.17 | BCY6: Broken Centerline (Yellow) @ 0.25 | BLC6: Broken Line Contrast (White/Black) @ 0.50 | BLW4: Broken Lane Line (White) @ 0.17 | BLW6: Broken Lane Line (White) @ 0.25
CBW6: Crosswalk Bar (White) @ 10.00 | CHW8: Channelizing Line (White) @ 1.33 | CHW10: Channelizing Line (White) @ 1.67 | CHY8: Channelizing Line (Yellow) @ 1.33 | CHY10: Channelizing Line (Yellow) @ 1.67
CLW6: Crosswalk Line (White) @ 2.00 | DCY4: Double Centerline (Yellow) @ 1.34 | DCY6: Double Centerline (Yellow) @ 2.00 | DDY4: Double Dotted Line (Yellow) @ 0.44 | DDY6: Double Dotted Line (Yellow) @ 0.67
DLW4: Dotted Line (White) @ 0.22 | DLW6: Dotted Line (White) @ 0.33 | DLY4: Dotted Line (Yellow) @ 0.22 | DLY6: Dotted Line (Yellow) @ 0.33 | ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00 | ELY4: Edge Line Left (Yellow) @ 0.67 | ELY6: Edge Line Left (Yellow) @ 1.00 | LDW8: Lane Drop (White) @ 0.33 | LDW10: Lane Drop (White) @ 0.42
MNY6: Median Nose (Yellow) @ 1.00 | NPY4: No Passing Zone Line (Yellow) @ 0.84 | NPY6: No Passing Zone Line (Yellow) @ 1.25 | RLW4: Ramp Edge Line Right (White) @ 0.67 | RLW6: Ramp Edge Line Right (White) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67 | RLY6: Ramp Edge Line Left (Yellow) @ 1.00 | SLW2: Stop Line (White) @ 4.00 | SLW4: Solid Lane Line (White) @ 0.67 | SLW6: Solid Lane Line (White) @ 1.00
SPW4: Sloped Curb 4" (White) @ 2.16 | SPW6: Sloped Curb 6" (White) @ 2.28 | SPY4: Sloped Curb 4" (Yellow) @ 2.16 | SPY6: Sloped Curb 6" (Yellow) @ 2.28 | STW6: Standard Curb 6" (Yellow) @ 2.03
STY6: Standard Curb 6" (Yellow) @ 2.03 | YLW2: Yield Line (White) @ 1.15

Line No.	Road ID	Begin Ref. Location Sign	End Ref. Location Sign	Lane	Marking Type	Left	Center	Right	Groove Marking Needed?	Groove Qty. (STA)	BLW6 (STA)	BLW6 Factored (STA)	DCY6 (STA)	DCY6 Factored (STA)	ELW6 (STA)	ELW6 Factored (STA)	NPY6** (STA)	NPY6** Factored (STA)	SLW2 (STA)	SLW2 Factored (STA)	Remarks
11.0	IA 15	9.28	9.66	NB	Waterborne/Solvent Paint		X		Yes	5.01	20.06	5.01									TEMP PAINT AFTER MILLING
12.0	IA 15	9.66	9.8	NB	Waterborne/Solvent Paint		X		Yes	9.24							7.39	9.24			TEMP PAINT AFTER MILLING
13.0	IA 15	9.8	10.06	NB	Waterborne/Solvent Paint		X		Yes	27.46			13.73	27.46							TEMP PAINT AFTER MILLING
14.0	IA 15	10.06	10.24	NB	Waterborne/Solvent Paint		X		Yes	11.88							9.50	11.88			TEMP PAINT AFTER MILLING
15.0	IA 15	10.24	10.58	NB	Waterborne/Solvent Paint		X		Yes	4.49	17.95	4.49									TEMP PAINT AFTER MILLING
16.0	IA 15	10.58	10.74	NB	Waterborne/Solvent Paint		X		Yes	10.56							8.45	10.56			TEMP PAINT AFTER MILLING
17.0	IA 15	10.74	10.97	NB	Waterborne/Solvent Paint		X		Yes	24.28			12.14	24.28							TEMP PAINT AFTER MILLING
18.0	IA 15	10.97	11.14	NB	Waterborne/Solvent Paint		X		Yes	11.23							8.98	11.23			TEMP PAINT AFTER MILLING
19.0	IA 15	11.14	12.45	NB	Waterborne/Solvent Paint		X		Yes	17.29	69.17	17.29									TEMP PAINT AFTER MILLING
20.0	IA 15	12.45	12.63	NB	Waterborne/Solvent Paint		X		Yes	11.88							9.50	11.88			TEMP PAINT AFTER MILLING
21.0	IA 15	12.63	12.84	NB	Waterborne/Solvent Paint		X		Yes	22.18			11.09	22.18							TEMP PAINT AFTER MILLING
22.0	IA 15	12.84	13.02	NB	Waterborne/Solvent Paint		X		Yes	11.88							9.50	11.88			TEMP PAINT AFTER MILLING
23.0	IA 15	13.02	15.93	NB	Waterborne/Solvent Paint		X		Yes	38.41	153.65	38.41									TEMP PAINT AFTER MILLING
24.0	IA 15	15.93	16.07	NB	Waterborne/Solvent Paint		X		Yes	9.24							7.39	9.24			TEMP PAINT AFTER MILLING
25.0	IA 15	6.5	16.07	NB	Waterborne/Solvent Paint	X		X	Yes	1010.59					1010.59	1010.59					TEMP PAINT AFTER MILLING
27.0	IA 15	16.07	16.12	NB	Waterborne/Solvent Paint	X	X	X	Yes	7.48					4.60	4.60	2.30	2.88			TEMP PAINT AFTER MILLING
26.0	IA 15	16.02	16.02	NB	Waterborne/Solvent Paint	X			Yes	0.56									0.14	0.56	TEMP PAINT AFTER MILLING
Total										2820.80		152.04		344.28		2030.38		293.54		0.56	

Marking Type : Waterborne/Solvent Paint
Number of Records : 53

Grand Totals

										2821.36		152.04		344.28		2030.38		293.54		1.12	

Number of Records : 54

108_13A
3/27/25

SAFETY CLOSURES

Station	Road Closure Qty.	Hazard Closure Qty.	Remarks
6+50.00	1		Pine Street in Rolfe
1610+20.00	1		End of Project
1609+00.00	1		Intersection Birch Ave (End of Project)
1609+00.00	1		Intersection 110th Ave. (End of Project)
Total	4		

8/31/2026 12:28:24 PM Joe.Profera@dot.iowa.gov

RUMBLE STRIPS

* Calculated at 18" width for Shoulder.
** For use with penetrating Engineered Fog Seal. Calculated at 2" wider than rumble strips.

Line No.	Road Identification	Station From	Station To	Surface Type	Rumble Strip Lane	Rumble Strip Type	Fog Seal Type	L (IN)	HMA Length (STA)	Fog Seal (SY)**	Remarks
1.0	IA 15	39+52.00	124+68.00	HMA	Centerline	Milled Sinusoidal Centerline Rumble Strips (HMA only)	Penetrating Engineered	12"	85.16	1107.1	
1.0	IA 15	127+25.00	484+27.00	HMA	Centerline	Milled Sinusoidal Centerline Rumble Strips (HMA only)	Penetrating Engineered	12"	357.02	4641.3	
1.0	IA 15	1601+29.00	1610+78.00	HMA	Centerline	Milled Sinusoidal Centerline Rumble Strips (HMA only)	Penetrating Engineered	12"	9.49	123.4	
Total										5871.8	

FOG SEAL CALCULATED AT 14" WIDE FOR FULL COVERAGE.

TOPSOIL STRIPPING AND PLACEMENT

Line No.	Road Identification	Dir. of Traffic	Station From	Station To	Topsoil Stripping Thickness (IN)	Topsoil Placement Thickness (IN)	Remarks
1.0	IA 15	NB	122+83.00	123+65.00	6.0	6.0	For grading at guardrail
2.0	IA 15	SB	123+54.00	124+15.00	6.0	6.0	For grading at guardrail
3.0	IA 15	NB	127+70.00	128+31.00	6.0	6.0	For grading at guardrail
4.0	IA 15	SB	128+20.00	129+02.00	6.0	6.0	For grading at guardrail
5.0	IA 15	NB	1597+83.00	1598+77.00	6.0	6.0	For grading at guardrail
6.0	IA 15	SB	1598+02.00	1598+89.00	6.0	6.0	For grading at guardrail
7.0	IA 15	NB	1603+78.00	1604+64.00	6.0	6.0	For grading at guardrail
8.0	IA 15	SB	1603+89.00	1604+83.00	6.0	6.0	For grading at guardrail

GRADING FOR GUARDRAIL INSTALLATIONS

Refer to EW-301.

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

Line No.	Direction of Traffic (1)	Station	Side	Foreslope at Guardrail	X1 (FT)	Y1 (FT)	X2 (FT)	Y2 (FT)	X3 (FT)	Y3 (FT)	X4 (FT)	Y4 (FT)	Z (FT)	Excavation Class 10 (CY)	Embankment-in-Place (CY)	Remarks
1.0	NB	125+28.26	Right	3 to 1	53.1	9.0	115.6	14.5			163.3	16.5	82.0		83.5	embankment-in-place for Z area only
2.0	SB	125+28.26	Left	3 to 1	65.6	9.0					113.3	11.0	61.0		24.9	embankment-in-place for Z area only
3.0	NB	126+56.84	Right	3 to 1	65.6	9.0					113.3	11.0	61.0		24.9	embankment-in-place for Z area only
4.0	SB	126+56.84	Left	3 to 1	53.1	9.0	115.6	14.5			163.3	16.5	82.0		83.5	embankment-in-place for Z area only
5.0	NB	1600+02.35	Right	3 to 1	53.1	15.0	78.1	18.0			125.8	19.7	94.0		95.7	embankment-in-place for Z area only
6.0	SB	1600+02.35	Left	3 to 1	65.6	15.0					113.3	18.0	87.0		74.9	embankment-in-place for Z area only
7.0	NB	1602+63.35	Right	3 to 1	65.6	15.0					113.3	18.0	87.0		74.9	embankment-in-place for Z area only
8.0	SB	1602+63.35	Left	3 to 1	53.1	15.0	78.1	18.0			125.8	19.7	94.0		95.7	embankment-in-place for Z area only

STEEL BEAM GUARDRAIL AT CONCRETE BARRIER OR BRIDGE RAIL END SECTION

Possible Standards: BA-200, BA-201, BA-202, BA-205, BA-206, BA-209, 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.

Line No.	Direction of Travel (1)	Side	Station	Offset (FT)	Barrier Transition Section	Barrier Transition Section (EA)	End Terminal	End Terminal Count (EA)	VT1 (LF)	VF (LF)	VT2 (LF)	ET (LF)	BA-211 Station	BA-211 (Type)	SI-211 (Type) (2)	Delineator SI-172 Type 1 (EA) (2)	Object Marker Type 2 (EA) (2)	Object Marker Type 3 Lt (EA)(2)	Object Marker Type 3 Rt (EA)(2)	Bolted End Anchor BA-202 (Type)	Bolted End Anchor BA-202 (EA)	Post Adapter BA-210 (EA)	Steel Beam Guardrail BA-200 (LF)	Remarks
1.0	NB	Right	125+28.26	16.0	BA-201	1	BA-205	1	53.125	62.50		47.70			2		7		1				75.0	
2.0	SB	Left	125+28.26	16.0	BA-201	1	BA-205	1	65.625	0.00		47.70			2		4	1					25.0	
3.0	NB	Right	126+56.84	16.0	BA-201	1	BA-205	1	65.625	0.00		47.70			2		7		1				25.0	
4.0	SB	Left	126+56.84	16.0	BA-201	1	BA-205	1	53.125	62.50		47.70			2		4	1					75.0	
5.0	NB	Right	1600+02.35	21.0	BA-201	1	BA-205	1	53.125	25.00		47.70			3				1				37.5	
6.0	SB	Left	1600+02.35	21.0	BA-201	1	BA-205	1	65.625	0.00		47.70			3			1					25.0	
7.0	NB	Right	1602+63.35	21.0	BA-201	1	BA-205	1	65.625	0.00		47.70			3				1				25.0	
8.0	SB	Left	1602+63.35	21.0	BA-201	1	BA-205	1	53.125	25.00		47.70			3			1					37.5	

110_07A

8/15/22

REMOVAL OF STEEL BEAM GUARDRAIL

(1) Lane(s) to which the installation is adjacent.
(2) Includes length of End Terminals and End Anchors.

Line No.	No.	Direction of Traffic (1)	Station From	Station To	Side	Removal of Guardrail (2) (LF)
1.0	1	NB	123+88.00	125+28.00	Right	140.0
2.0	1	SB	124+38.00	125+28.00	Left	90.0
3.0	1	NB	126+56.00	127+46.00	Right	90.0
4.0	1	SB	126+56.00	127+96.00	Left	140.0
5.0	1	NB	1599+12.00	1600+02.00	Right	90.0
6.0	1	SB	1599+12.00	1600+02.00	Left	90.0
7.0	1	NB	1602+63.00	1603+53.00	Right	90.0
8.0	1	SB	1602+63.00	1603+53.00	Left	90.0

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.
(7) Paved shoulder thickness specified in Remarks.
(8) Subbase type specified in Remarks.

Roadway Identification	Direction of Travel (1)	Station From	Station To	Side	P Width (FT)	P SG Width (2) (FT)	G Width (FT)	L Length (FT)	Class 13 Excavation (CY)(3)(4)	HMA (TON)	HMA (TON/STA)	Binder (TONS)	Paved Shoulder at Grdrail (5)(7) (SY)	Reinforced Paved Shoulder(3) (SY)	Special Backfill HMA Alt. (3) (TON)	Special Backfill HMA Alt. (TON/STA)	Special Backfill PCC Alt. (3) (TON)	Special Backfill PCC Alt. (TON/STA)	Pavement Scarification (SY)	Polymer Grid (SY)	Subbase (3) (8) (CY)	Granular Shoulder (3) (TON)	Granular Shoulder (TON/STA)	Earth Shoulder Const. Alt (3) (STA)	Earth Shoulder Const. Alt HMA (6) (CY)	Earth Shoulder Const. Alt PCC (6) (CY)	Remarks
IA 15	NB	123+47.20	123+74.70	Right				27.50					33.6		10.600									0.28			
IA 15	SB	123+96.90	124+31.50	Left				34.60					23.1		7.300									0.35			
IA 15	NB	127+47.20	127+88.30	Right				41.10					27.4		8.600									0.41			
IA 15	SB	128+08.40	128+37.90	Left				29.50					36.1		11.400									0.29			
IA 15	NB	1598+58.60	1598+84.40	Right				25.80					43.0		13.500									0.26			
IA 15	SB	1598+71.00	1598+85.40	Left				14.40					20.8		6.600									0.14			
IA 15	NB	1603+70.40	1603+94.70	Right				24.30					35.1		11.100									0.24			
IA 15	SB	1603+70.40	1604+07.10	Left				36.70					61.2		19.300									0.37			

262_06
9/28/22

UTILITIES (NOT A POINT 25 PROJECT)

This is NOT a POINT 25 project and is not subject to the provisions of IAC 761-115.25.

LONGITUDINAL SUBDRAIN SHOULDER

* Not a bid item.

Line No.	Road or Lane Identification	Station From	Station To	Side	Depth (IN) (D)	Subdrain Size (IN)	Length (FT)	Outlet Station	Outlet Type	Porous Backfill* (CY)	Remarks
1.0	IA 15	8+60.00	13+60.00	RT	24.0	4.0	530.0	8+60.00	DR-305 Type A	24.5	TYPE 8A (START PROJECT) PILOT CREEK BRIDGE
2.0					24.0	4.0	30.0	13+60.00	DR-305 Type A	1.4	TYPE 8A
3.0	IA 15	13+60.00	18+60.00	RT	24.0	4.0	530.0	13+60.00	DR-305 Type A	24.5	TYPE 8A
4.0					24.0	4.0	30.0	18+60.00	DR-305 Type A	1.4	TYPE 8A
5.0	IA 15	18+60.00	23+60.00	RT	24.0	4.0	530.0	18+60.00	DR-305 Type A	24.5	TYPE 8A
6.0					24.0	4.0	30.0	23+60.00	DR-305 Type A	1.4	TYPE 8A
7.0	IA 15	23+60.00	28+60.00	RT	24.0	4.0	530.0	23+60.00	DR-305 Type A	24.5	TYPE 8A
8.0					24.0	4.0	30.0	28+60.00	DR-305 Type A	1.4	TYPE 8A
9.0	IA 15	28+60.00	33+60.00	RT	24.0	4.0	530.0	28+60.00	DR-305 Type A	24.5	TYPE 8A
10.0					24.0	4.0	30.0	33+60.00	DR-305 Type A	1.4	TYPE 8A
11.0	IA 15	33+60.00	38+60.00	RT	24.0	4.0	531.0	33+60.00	DR-305 Type A	24.6	TYPE 8A
12.0					24.0	4.0	30.0	38+60.00	DR-305 Type A	1.4	TYPE 8A
13.0	IA 15	38+60.00	43+60.00	RT	24.0	4.0	530.0	38+60.00	DR-305 Type A	24.5	TYPE 8A
14.0					24.0	4.0	30.0	43+60.00	DR-305 Type A	1.4	TYPE 8A
15.0	IA 15	43+60.00	48+60.00	RT	24.0	4.0	530.0	43+60.00	DR-305 Type A	24.5	TYPE 8A
16.0					24.0	4.0	30.0	48+60.00	DR-305 Type A	1.4	TYPE 8A
17.0	IA 15	48+60.00	53+60.00	RT	24.0	4.0	530.0	48+60.00	DR-305 Type A	24.5	TYPE 8A
18.0					24.0	4.0	30.0	53+60.00	DR-305 Type A	1.4	TYPE 8A
19.0	IA 15	53+60.00	58+60.00	RT	24.0	4.0	532.0	53+60.00	DR-305 Type A	24.6	TYPE 8A
20.0					24.0	4.0	30.0	58+60.00	DR-305 Type A	1.4	TYPE 8A
21.0	IA 15	58+60.00	63+60.00	RT	24.0	4.0	530.0	58+60.00	DR-305 Type A	24.5	TYPE 8A
22.0					24.0	4.0	30.0	63+60.00	DR-305 Type A	1.4	TYPE 8A
23.0	IA 15	63+60.00	68+60.00	RT	24.0	4.0	530.0	63+60.00	DR-305 Type A	24.5	TYPE 8A
24.0					24.0	4.0	30.0	68+60.00	DR-305 Type A	1.4	TYPE 8A
25.0	IA 15	68+60.00	73+60.00	RT	24.0	4.0	530.0	68+60.00	DR-305 Type A	24.5	TYPE 8A
26.0					24.0	4.0	30.0	73+60.00	DR-305 Type A	1.4	TYPE 8A
27.0	IA 15	73+60.00	78+60.00	RT	24.0	4.0	533.0	73+60.00	DR-305 Type A	24.7	TYPE 8A
28.0					24.0	4.0	30.0	78+60.00	DR-305 Type A	1.4	TYPE 8A
29.0	IA 15	78+60.00	83+60.00	RT	24.0	4.0	530.0	78+60.00	DR-305 Type A	24.5	TYPE 8A
30.0					24.0	4.0	30.0	83+60.00	DR-305 Type A	1.4	TYPE 8A
31.0	IA 15	83+60.00	88+60.00	RT	24.0	4.0	530.0	83+60.00	DR-305 Type A	24.5	TYPE 8A
32.0					24.0	4.0	30.0	88+60.00	DR-305 Type A	1.4	TYPE 8A
33.0	IA 15	88+60.00	93+60.00	RT	24.0	4.0	530.0	88+60.00	DR-305 Type A	24.5	TYPE 8A
34.0					24.0	4.0	30.0	93+60.00	DR-305 Type A	1.4	TYPE 8A
35.0	IA 15	93+60.00	98+60.00	RT	24.0	4.0	534.0	93+60.00	DR-305 Type A	24.7	TYPE 8A
36.0					24.0	4.0	30.0	98+60.00	DR-305 Type A	1.4	TYPE 8A
37.0	IA 15	98+60.00	103+60.00	RT	24.0	4.0	530.0	98+60.00	DR-305 Type A	24.5	TYPE 8A
38.0					24.0	4.0	30.0	103+60.00	DR-305 Type A	1.4	TYPE 8A
39.0	IA 15	103+60.00	108+60.00	RT	24.0	4.0	530.0	103+60.00	DR-305 Type A	24.5	TYPE 8A
40.0					24.0	4.0	30.0	108+60.00	DR-305 Type A	1.4	TYPE 8A
41.0	IA 15	108+60.00	113+60.00	RT	24.0	4.0	530.0	108+60.00	DR-305 Type A	24.5	TYPE 8A
42.0					24.0	4.0	30.0	113+60.00	DR-305 Type A	1.4	TYPE 8A
43.0	IA 15	113+60.00	118+60.00	RT	24.0	4.0	535.0	113+60.00	DR-305 Type A	24.8	TYPE 8A
44.0					24.0	4.0	30.0	118+60.00	DR-305 Type A	1.4	TYPE 8A
45.0	IA 15	118+60.00	123+60.00	RT	24.0	4.0	530.0	118+60.00	DR-305 Type A	24.5	TYPE 8A
46.0					24.0	4.0	30.0	123+60.00	DR-305 Type A	1.4	TYPE 8A
47.0	IA 15	123+60.00	124+80.00	RT	24.0	4.0	150.0	123+60.00	DR-305 Type A	6.9	TYPE 8A

LONGITUDINAL SUBDRAIN SHOULDER

* Not a bid item.

Line No.	Road or Lane Identification	Station From	Station To	Side	Depth (IN) (D)	Subdrain Size (IN)	Length (FT)	Outlet Station	Outlet Type	Porous Backfill* (CY)	Remarks
48.0					24.0	4.0	30.0	124+80.00	DR-305 Type A	1.4	TYPE 8A BEAVER CREEK BRIDGE
49.0	IA 15	127+20.00	132+20.00	RT	24.0	4.0	530.0	127+20.00	DR-305 Type A	24.5	TYPE 8A BEAVER CREEK BRIDGE
50.0					24.0	4.0	30.0	132+20.00	DR-305 Type A	1.4	TYPE 8A
51.0	IA 15	132+20.00	137+20.00	RT	24.0	4.0	530.0	132+20.00	DR-305 Type A	24.5	TYPE 8A
52.0					24.0	4.0	30.0	137+20.00	DR-305 Type A	1.4	TYPE 8A
53.0	IA 15	137+20.00	142+20.00	RT	24.0	4.0	530.0	137+20.00	DR-305 Type A	24.5	TYPE 8A
54.0					24.0	4.0	30.0	142+20.00	DR-305 Type A	1.4	TYPE 8A
55.0	IA 15	142+20.00	147+20.00	RT	24.0	4.0	530.0	142+20.00	DR-305 Type A	24.5	TYPE 8A
56.0					24.0	4.0	30.0	147+20.00	DR-305 Type A	1.4	TYPE 8A
57.0	IA 15	147+20.00	152+20.00	RT	24.0	4.0	530.0	147+20.00	DR-305 Type A	24.5	TYPE 8A
58.0					24.0	4.0	30.0	152+20.00	DR-305 Type A	1.4	TYPE 8A
59.0	IA 15	152+20.00	157+20.00	RT	24.0	4.0	530.0	152+20.00	DR-305 Type A	24.5	TYPE 8A
60.0					24.0	4.0	30.0	157+20.00	DR-305 Type A	1.4	TYPE 8A
61.0	IA 15	157+20.00	162+20.00	RT	24.0	4.0	530.0	157+20.00	DR-305 Type A	24.5	TYPE 8A
62.0					24.0	4.0	30.0	162+20.00	DR-305 Type A	1.4	TYPE 8A
63.0	IA 15	162+20.00	167+20.00	RT	24.0	4.0	530.0	162+20.00	DR-305 Type A	24.5	TYPE 8A
64.0					24.0	4.0	30.0	167+20.00	DR-305 Type A	1.4	TYPE 8A
65.0	IA 15	167+20.00	172+20.00	RT	24.0	4.0	530.0	167+20.00	DR-305 Type A	24.5	TYPE 8A
66.0					24.0	4.0	30.0	172+20.00	DR-305 Type A	1.4	TYPE 8A
67.0	IA 15	172+20.00	177+20.00	RT	24.0	4.0	530.0	172+20.00	DR-305 Type A	24.5	TYPE 8A
68.0					24.0	4.0	30.0	177+20.00	DR-305 Type A	1.4	TYPE 8A
69.0	IA 15	177+20.00	182+20.00	RT	24.0	4.0	530.0	177+20.00	DR-305 Type A	24.5	TYPE 8A
70.0					24.0	4.0	30.0	182+20.00	DR-305 Type A	1.4	TYPE 8A
71.0	IA 15	182+20.00	187+20.00	RT	24.0	4.0	530.0	182+20.00	DR-305 Type A	24.5	TYPE 8A
72.0					24.0	4.0	30.0	187+20.00	DR-305 Type A	1.4	TYPE 8A
73.0	IA 15	187+20.00	192+20.00	RT	24.0	4.0	530.0	187+20.00	DR-305 Type A	24.5	TYPE 8A
74.0					24.0	4.0	30.0	192+20.00	DR-305 Type A	1.4	TYPE 8A
75.0	IA 15	192+20.00	197+20.00	RT	24.0	4.0	530.0	192+20.00	DR-305 Type A	24.5	TYPE 8A
76.0					24.0	4.0	30.0	197+20.00	DR-305 Type A	1.4	TYPE 8A
77.0	IA 15	197+20.00	202+20.00	RT	24.0	4.0	530.0	197+20.00	DR-305 Type A	24.5	TYPE 8A
78.0					24.0	4.0	30.0	202+20.00	DR-305 Type A	1.4	TYPE 8A
79.0	IA 15	202+20.00	207+20.00	RT	24.0	4.0	530.0	202+20.00	DR-305 Type A	24.5	TYPE 8A
80.0					24.0	4.0	30.0	207+20.00	DR-305 Type A	1.4	TYPE 8A
81.0	IA 15	207+20.00	212+20.00	RT	24.0	4.0	530.0	207+20.00	DR-305 Type A	24.5	TYPE 8A
82.0					24.0	4.0	30.0	212+20.00	DR-305 Type A	1.4	TYPE 8A
83.0	IA 15	212+20.00	217+20.00	RT	24.0	4.0	530.0	212+20.00	DR-305 Type A	24.5	TYPE 8A
84.0					24.0	4.0	30.0	217+20.00	DR-305 Type A	1.4	TYPE 8A
85.0	IA 15	217+20.00	222+20.00	RT	24.0	4.0	530.0	217+20.00	DR-305 Type A	24.5	TYPE 8A
86.0					24.0	4.0	30.0	222+20.00	DR-305 Type A	1.4	TYPE 8A
87.0	IA 15	222+20.00	227+20.00	RT	24.0	4.0	530.0	222+20.00	DR-305 Type A	24.5	TYPE 8A
88.0					24.0	4.0	30.0	227+20.00	DR-305 Type A	1.4	TYPE 8A
89.0	IA 15	227+20.00	232+20.00	RT	24.0	4.0	530.0	227+20.00	DR-305 Type A	24.5	TYPE 8A
90.0					24.0	4.0	30.0	232+20.00	DR-305 Type A	1.4	TYPE 8A
91.0	IA 15	232+20.00	237+20.00	RT	24.0	4.0	530.0	232+20.00	DR-305 Type A	24.5	TYPE 8A
92.0					24.0	4.0	30.0	237+20.00	DR-305 Type A	1.4	TYPE 8A
93.0	IA 15	237+20.00	242+20.00	RT	24.0	4.0	530.0	237+20.00	DR-305 Type A	24.5	TYPE 8A
94.0					24.0	4.0	30.0	242+20.00	DR-305 Type A	1.4	TYPE 8A

LONGITUDINAL SUBDRAIN SHOULDER

* Not a bid item.

Line No.	Road or Lane Identification	Station From	Station To	Side	Depth (IN) (D)	Subdrain Size (IN)	Length (FT)	Outlet Station	Outlet Type	Porous Backfill* (CY)	Remarks
95.0	IA 15	242+20.00	247+20.00	RT	24.0	4.0	530.0	242+20.00	DR-305 Type A	24.5	TYPE 8A
96.0					24.0	4.0	30.0	247+20.00	DR-305 Type A	1.4	TYPE 8A
97.0	IA 15	247+20.00	252+20.00	RT	24.0	4.0	530.0	247+20.00	DR-305 Type A	24.5	TYPE 8A
98.0					24.0	4.0	30.0	252+20.00	DR-305 Type A	1.4	TYPE 8A
99.0	IA 15	252+20.00	257+20.00	RT	24.0	4.0	530.0	252+20.00	DR-305 Type A	24.5	TYPE 8A
100.0					24.0	4.0	30.0	257+20.00	DR-305 Type A	1.4	TYPE 8A
101.0	IA 15	257+20.00	262+20.00	RT	24.0	4.0	530.0	257+20.00	DR-305 Type A	24.5	TYPE 8A
102.0					24.0	4.0	30.0	262+20.00	DR-305 Type A	1.4	TYPE 8A
103.0	IA 15	262+20.00	267+20.00	RT	24.0	4.0	530.0	262+20.00	DR-305 Type A	24.5	TYPE 8A
104.0					24.0	4.0	30.0	267+20.00	DR-305 Type A	1.4	TYPE 8A
105.0	IA 15	267+20.00	272+20.00	RT	24.0	4.0	530.0	267+20.00	DR-305 Type A	24.5	TYPE 8A
106.0					24.0	4.0	30.0	272+20.00	DR-305 Type A	1.4	TYPE 8A
107.0	IA 15	272+20.00	277+20.00	RT	24.0	4.0	530.0	272+20.00	DR-305 Type A	24.5	TYPE 8A
108.0					24.0	4.0	30.0	277+20.00	DR-305 Type A	1.4	TYPE 8A
109.0	IA 15	277+20.00	282+20.00	RT	24.0	4.0	530.0	277+20.00	DR-305 Type A	24.5	TYPE 8A
110.0					24.0	4.0	30.0	282+20.00	DR-305 Type A	1.4	TYPE 8A
111.0	IA 15	282+20.00	287+20.00	RT	24.0	4.0	530.0	282+20.00	DR-305 Type A	24.5	TYPE 8A
112.0					24.0	4.0	30.0	287+20.00	DR-305 Type A	1.4	TYPE 8A
113.0	IA 15	287+20.00	292+20.00	RT	24.0	4.0	530.0	287+20.00	DR-305 Type A	24.5	TYPE 8A
114.0					24.0	4.0	30.0	292+20.00	DR-305 Type A	1.4	TYPE 8A
115.0	IA 15	292+20.00	297+20.00	RT	24.0	4.0	530.0	292+20.00	DR-305 Type A	24.5	TYPE 8A
116.0					24.0	4.0	30.0	297+20.00	DR-305 Type A	1.4	TYPE 8A
117.0	IA 15	297+20.00	302+20.00	RT	24.0	4.0	530.0	297+20.00	DR-305 Type A	24.5	TYPE 8A
118.0					24.0	4.0	30.0	302+20.00	DR-305 Type A	1.4	TYPE 8A
119.0	IA 15	302+20.00	307+20.00	RT	24.0	4.0	530.0	302+20.00	DR-305 Type A	24.5	TYPE 8A
120.0					24.0	4.0	30.0	307+20.00	DR-305 Type A	1.4	TYPE 8A
121.0	IA 15	307+20.00	312+20.00	RT	24.0	4.0	530.0	307+20.00	DR-305 Type A	24.5	TYPE 8A
122.0					24.0	4.0	30.0	312+20.00	DR-305 Type A	1.4	TYPE 8A
123.0	IA 15	312+20.00	317+20.00	RT	24.0	4.0	530.0	312+20.00	DR-305 Type A	24.5	TYPE 8A
124.0					24.0	4.0	30.0	317+20.00	DR-305 Type A	1.4	TYPE 8A
125.0	IA 15	317+20.00	322+20.00	RT	24.0	4.0	530.0	317+20.00	DR-305 Type A	24.5	TYPE 8A
126.0					24.0	4.0	30.0	322+20.00	DR-305 Type A	1.4	TYPE 8A
127.0	IA 15	322+20.00	327+20.00	RT	24.0	4.0	530.0	322+20.00	DR-305 Type A	24.5	TYPE 8A
128.0					24.0	4.0	30.0	327+20.00	DR-305 Type A	1.4	TYPE 8A
129.0	IA 15	327+20.00	332+20.00	RT	24.0	4.0	530.0	327+20.00	DR-305 Type A	24.5	TYPE 8A
130.0					24.0	4.0	30.0	332+20.00	DR-305 Type A	1.4	TYPE 8A
131.0	IA 15	332+20.00	337+20.00	RT	24.0	4.0	530.0	332+20.00	DR-305 Type A	24.5	TYPE 8A
132.0					24.0	4.0	30.0	337+20.00	DR-305 Type A	1.4	TYPE 8A
133.0	IA 15	337+20.00	342+20.00	RT	24.0	4.0	530.0	337+20.00	DR-305 Type A	24.5	TYPE 8A
134.0					24.0	4.0	30.0	342+20.00	DR-305 Type A	1.4	TYPE 8A
135.0	IA 15	342+20.00	347+20.00	RT	24.0	4.0	530.0	342+20.00	DR-305 Type A	24.5	TYPE 8A
136.0					24.0	4.0	30.0	347+20.00	DR-305 Type A	1.4	TYPE 8A
137.0	IA 15	347+20.00	352+20.00	RT	24.0	4.0	530.0	347+20.00	DR-305 Type A	24.5	TYPE 8A
138.0					24.0	4.0	30.0	352+20.00	DR-305 Type A	1.4	TYPE 8A
139.0	IA 15	352+20.00	357+20.00	RT	24.0	4.0	530.0	352+20.00	DR-305 Type A	24.5	TYPE 8A
140.0					24.0	4.0	30.0	357+20.00	DR-305 Type A	1.4	TYPE 8A
141.0	IA 15	357+20.00	362+20.00	RT	24.0	4.0	530.0	357+20.00	DR-305 Type A	24.5	TYPE 8A

LONGITUDINAL SUBDRAIN SHOULDER

* Not a bid item.

Line No.	Road or Lane Identification	Station From	Station To	Side	Depth (IN) (D)	Subdrain Size (IN)	Length (FT)	Outlet Station	Outlet Type	Porous Backfill* (CY)	Remarks
142.0					24.0	4.0	30.0	362+20.00	DR-305 Type A	1.4	TYPE 8A
143.0	IA 15	362+20.00	367+20.00	RT	24.0	4.0	530.0	362+20.00	DR-305 Type A	24.5	TYPE 8A
144.0					24.0	4.0	30.0	367+20.00	DR-305 Type A	1.4	TYPE 8A
145.0	IA 15	367+20.00	372+20.00	RT	24.0	4.0	530.0	367+20.00	DR-305 Type A	24.5	TYPE 8A
146.0					24.0	4.0	30.0	372+20.00	DR-305 Type A	1.4	TYPE 8A
147.0	IA 15	372+20.00	377+20.00	RT	24.0	4.0	530.0	372+20.00	DR-305 Type A	24.5	TYPE 8A
148.0					24.0	4.0	30.0	377+20.00	DR-305 Type A	1.4	TYPE 8A
149.0	IA 15	377+20.00	382+20.00	RT	24.0	4.0	530.0	377+20.00	DR-305 Type A	24.5	TYPE 8A
150.0					24.0	4.0	30.0	382+20.00	DR-305 Type A	1.4	TYPE 8A
151.0	IA 15	382+20.00	387+20.00	RT	24.0	4.0	530.0	382+20.00	DR-305 Type A	24.5	TYPE 8A
152.0					24.0	4.0	30.0	387+20.00	DR-305 Type A	1.4	TYPE 8A
153.0	IA 15	387+20.00	392+20.00	RT	24.0	4.0	530.0	387+20.00	DR-305 Type A	24.5	TYPE 8A
154.0					24.0	4.0	30.0	392+20.00	DR-305 Type A	1.4	TYPE 8A
155.0	IA 15	392+20.00	397+20.00	RT	24.0	4.0	530.0	392+20.00	DR-305 Type A	24.5	TYPE 8A
156.0					24.0	4.0	30.0	397+20.00	DR-305 Type A	1.4	TYPE 8A
157.0	IA 15	397+20.00	402+20.00	RT	24.0	4.0	530.0	397+20.00	DR-305 Type A	24.5	TYPE 8A
158.0					24.0	4.0	30.0	402+20.00	DR-305 Type A	1.4	TYPE 8A
159.0	IA 15	402+20.00	407+20.00	RT	24.0	4.0	530.0	402+20.00	DR-305 Type A	24.5	TYPE 8A
160.0					24.0	4.0	30.0	407+20.00	DR-305 Type A	1.4	TYPE 8A
161.0	IA 15	407+20.00	412+20.00	RT	24.0	4.0	530.0	407+20.00	DR-305 Type A	24.5	TYPE 8A
162.0					24.0	4.0	30.0	412+20.00	DR-305 Type A	1.4	TYPE 8A
163.0	IA 15	412+20.00	417+20.00	RT	24.0	4.0	530.0	412+20.00	DR-305 Type A	24.5	TYPE 8A
164.0					24.0	4.0	30.0	417+20.00	DR-305 Type A	1.4	TYPE 8A
165.0	IA 15	417+20.00	422+20.00	RT	24.0	4.0	530.0	417+20.00	DR-305 Type A	24.5	TYPE 8A
166.0					24.0	4.0	30.0	422+20.00	DR-305 Type A	1.4	TYPE 8A
167.0	IA 15	422+20.00	427+20.00	RT	24.0	4.0	530.0	422+20.00	DR-305 Type A	24.5	TYPE 8A
168.0					24.0	4.0	30.0	427+20.00	DR-305 Type A	1.4	TYPE 8A
169.0	IA 15	427+20.00	432+20.00	RT	24.0	4.0	530.0	427+20.00	DR-305 Type A	24.5	TYPE 8A
170.0					24.0	4.0	30.0	432+20.00	DR-305 Type A	1.4	TYPE 8A
171.0	IA 15	432+20.00	437+20.00	RT	24.0	4.0	530.0	432+20.00	DR-305 Type A	24.5	TYPE 8A
172.0					24.0	4.0	30.0	437+20.00	DR-305 Type A	1.4	TYPE 8A
173.0	IA 15	437+20.00	442+20.00	RT	24.0	4.0	530.0	437+20.00	DR-305 Type A	24.5	TYPE 8A
174.0					24.0	4.0	30.0	442+20.00	DR-305 Type A	1.4	TYPE 8A
175.0	IA 15	442+20.00	447+20.00	RT	24.0	4.0	530.0	442+20.00	DR-305 Type A	24.5	TYPE 8A
176.0					24.0	4.0	30.0	447+20.00	DR-305 Type A	1.4	TYPE 8A
177.0	IA 15	447+20.00	452+20.00	RT	24.0	4.0	530.0	447+20.00	DR-305 Type A	24.5	TYPE 8A
178.0					24.0	4.0	30.0	452+20.00	DR-305 Type A	1.4	TYPE 8A
179.0	IA 15	452+20.00	457+20.00	RT	24.0	4.0	530.0	452+20.00	DR-305 Type A	24.5	TYPE 8A
180.0					24.0	4.0	30.0	457+20.00	DR-305 Type A	1.4	TYPE 8A
181.0	IA 15	457+20.00	462+20.00	RT	24.0	4.0	530.0	457+20.00	DR-305 Type A	24.5	TYPE 8A
182.0					24.0	4.0	30.0	462+20.00	DR-305 Type A	1.4	TYPE 8A
183.0	IA 15	462+20.00	467+20.00	RT	24.0	4.0	530.0	462+20.00	DR-305 Type A	24.5	TYPE 8A
184.0					24.0	4.0	30.0	467+20.00	DR-305 Type A	1.4	TYPE 8A
185.0	IA 15	467+20.00	472+20.00	RT	24.0	4.0	530.0	467+20.00	DR-305 Type A	24.5	TYPE 8A
186.0					24.0	4.0	30.0	472+20.00	DR-305 Type A	1.4	TYPE 8A
187.0	IA 15	472+20.00	477+20.00	RT	24.0	4.0	530.0	472+20.00	DR-305 Type A	24.5	TYPE 8A
188.0					24.0	4.0	30.0	477+20.00	DR-305 Type A	1.4	TYPE 8A

LONGITUDINAL SUBDRAIN SHOULDER

* Not a bid item.

Line No.	Road or Lane Identification	Station From	Station To	Side	Depth (IN) (D)	Subdrain Size (IN)	Length (FT)	Outlet Station	Outlet Type	Porous Backfill* (CY)	Remarks
189.0	IA 15	477+20.00	482+20.00	RT	24.0	4.0	530.0	477+20.00	DR-305 Type A	24.5	TYPE 8A
190.0					24.0	4.0	30.0	482+20.00	DR-305 Type A	1.4	TYPE 8A
191.0	IA 15	482+20.00	484+30.00	RT	24.0	4.0	240.0	482+20.00	DR-305 Type A	11.1	TYPE 8A
192.0					24.0	4.0	30.0	484+30.00	DR-305 Type A	1.4	TYPE 8A W FORK DES MOINES RIVER BRIDGE
193.0	IA 15	1600+70.00	1605+70.00	RT	24.0	4.0	530.0	1600+70.00	DR-305 Type A	24.5	TYPE 8A W FORK DES MOINES RIVER BRIDGE
194.0					24.0	4.0	30.0	1605+70.00	DR-305 Type A	1.4	TYPE 8A
195.0	IA 15	1605+70.00	1609+00.00	RT	24.0	4.0	360.0	1605+70.00	DR-305 Type A	16.7	TYPE 8A
196.0					24.0	4.0	30.0	1609+00.00	DR-305 Type A	1.4	TYPE 8A INTERSECTION HUMBOLDT CO
197.0	IA 15	1609+30.00	1610+80.00	RT	24.0	4.0	180.0	1609+30.00	DR-305 Type A	8.3	TYPE 8A INTERSECTION HUMBOLDT CO
198.0					24.0	4.0	30.0	1610+80.00	DR-305 Type A	1.4	TYPE 8A (END PROJECT)
Total							54265.0			2510.0	

108_23A
8/15/22

TRAFFIC CONTROL PLAN

1. Through traffic will be maintained on the project at all times, except as noted below.

2.From the beginning of the Scrub Seal operation until the end of placement, through traffic at XXX Street in Rolfe to the intersection of IA 15 & 110th Street/Birch Avenue will be detoured. See detour routes on Sheets A.3 and detour signing layout on Sheet J.5 for additional information. The Contractor shall place and maintain the detour signs for this project.

3. Traffic control on this project shall be found in accordance with the TC series of Standard Road Plans found in Tab. 105-4 included in the plans. For additional complementary information, refer to part VI of the Manual on Uniform Traffic Control Devices and the current Standard Specifications.

4. The contractor shall coordinate traffic control with other projects in the area.

5. Contractor shall notifiy the Engineer 14 days prior to start of the detour.

108_26A
8/15/22

STAGING NOTES

Stage 1: Patching

Stage 2: Detour, scrub seal, guardrail, paint, grooving, and rumble strips.

Stage 3: Final paint

511 TRAVEL RESTRICTIONS

Line No.	Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No. or Structure ID or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
1.0	IA 15	NB	Pocahontas					None					

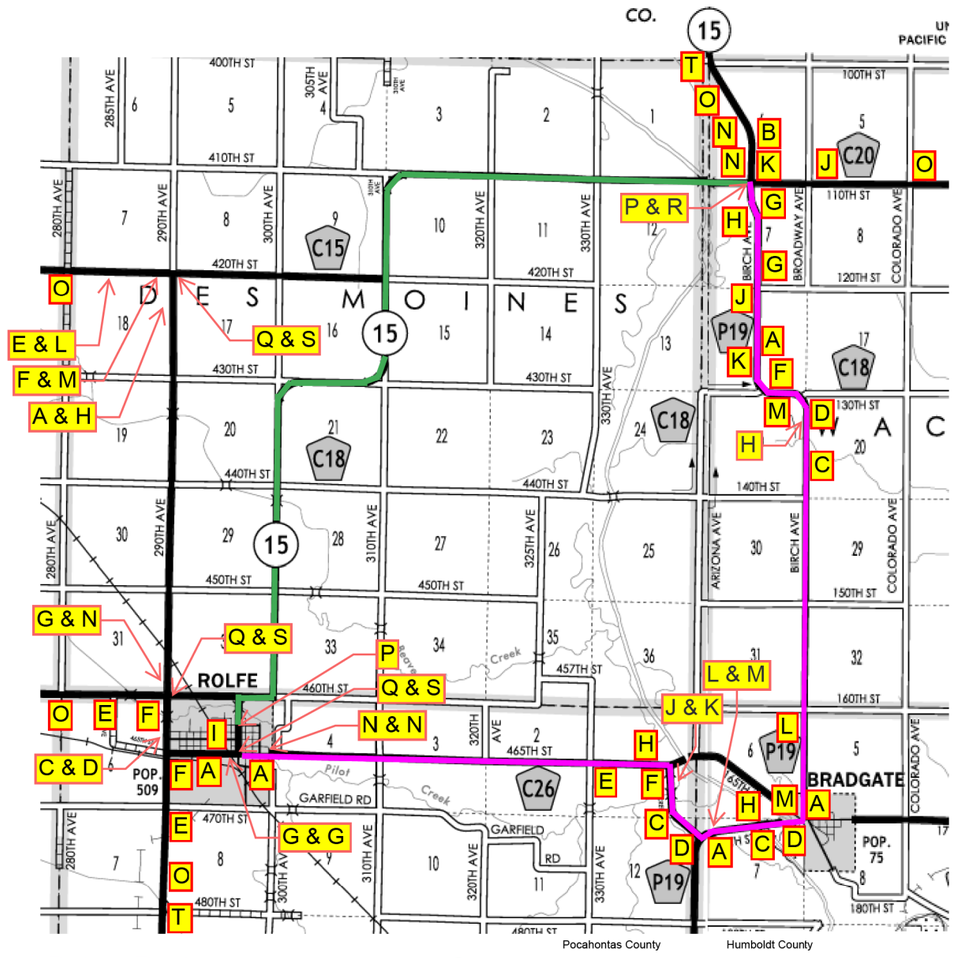
111_01

10/14/22

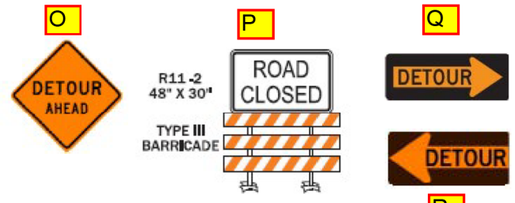
COORDINATED OPERATIONS

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
BRF-015-1(013)--38-76	Bridge Replacement



Detour Route — Project Closure



Sign	MUTCD	Size	#
Detour	M4-8	24x12	53
North	M3-1	24x12	29
South	M3-3	24x12	24
End	M4-8B	24x12	2
IA 15	M1-6A	24x24	53
Advance Turn Arrow Left 90	M5-1B	21x15	7
Single Left Arrow	M6-1	21x15	7
Advance Turn Arrow Right 90	M5-1	21x15	7
Single Right Arrow	M6-1	21x15	8

Sign	MUTCD	Size	#
Straight Up Arrow	M6-3	21x15	10
Detour on Right Arrow	M4-10R	48x18	3
Detour on Left Arrow	M4-10L	48x18	1
Road Closed	R11-2	48x30	2
Road Closed to Thru Traffic	R11-4	60x30	3
Type III Barricades	N/A	N/A	5
Detour Ahead	W20-2	48x48	5
PDMS	N/A	N/A	2

All detour signing to be fabricated, installed, maintained and removed by Contractor - all conflicting signing should be covered during duration of detour usage. Care should be taken to not block visibility of other signing while installing temporary detour signing. Spacing needs to be maintained based on MUTCD requirements.

FILE NO.	ENGLISH	DESIGN TEAM **DISTRICT 3**	**POCAHONTAS/HUMBOLDT** COUNTY	PROJECT NUMBER **STPN-015-1(016)--2J-76**	SHEET NUMBER **J.5**

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NOT TO SCALE

Beaver Creek

STA 126+56.84

STA 125+28.26

20'
47.7'
62.5'
53.125'
65.625'

Beaver Creek

STA 126+56.84

STA 125+28.26

20'
47.7'
62.5'
53.125'
65.625'

Ruler

Line | Path | Polygon | Circle | 3D path | 3D polygon

Measure the distance between two points on the ground

Map Length: 194.98 Feet

Ground Length: 194.98

Heading: 90.00 degrees

Mouse Navigation | Save | Clear

188 ft

1985

Image © 2026 Airbus

Google Earth

Imagery Date: 10/21/2024 42°50'52.76" N 94°31'22.62" W elev 0 ft eye alt 814 ft

FILE NO.	ENGLISH	DESIGN TEAM **DISTRICT 3**	**POCAHONTAS/HUMBOLDT** COUNTY	PROJECT NUMBER **STPN-015-1(016)--2J-76**	SHEET NUMBER **U.1**	

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NOT TO SCALE

Des Moines River

STA 1600+02.35

STA 1602+63.35

20' 47.7' 65.625'

53.125' 25' 47.7' 20'

20' 47.7' 25' 53.125'

62.625' 47.7' 20'

STA 1600+02.35

STA 1602+63.35

Des Moines River

Ruler

Line | Path | Polygon | Circle | 3D path | 3D polygon

Measure the distance between two points on the ground

Map Length: 360.85 Feet

Ground Length: 360.85

Heading: 90.00 degrees

Mouse Navigation | Save | Clear

201 ft

1985

Image © 2026 Airbus

Google Earth

Imagery Date: 10/21/2024 42°53'32.84" N 94°26'38.55" W elev 0 ft eye alt 870 ft

FILE NO.	ENGLISH	DESIGN TEAM DISTRICT 3	POCAHONTAS/HUMBOLDT COUNTY	PROJECT NUMBER STPN-015-1(016)--2J-76	SHEET NUMBER U.2

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