SEAL COAT

LETTING DATE **Nov 17 2026**

STPN-175-3(063)--2J-47

IDA COUNTY

INDEX OF SHEETS

No.	DESCRIPTION
A Sheets	**Title Sheets**
A.1	Title Sheet
A.2	Location Map Sheet
A.3	Detour Route Sheet
B Sheets	**Typical Cross Sections and Details**
B.1 - 2	Typical Cross Sections and Details
C Sheets	**Quantities and General Information**
C.1 - 2	Estimated Project Quantities & Reference Information
C.3 - 18	Tabulations & General Notes
J Sheets	**Traffic Control and Staging Sheets**
J.1	Traffic Control Plan
J.2	Staging Notes Stage
J.3	511 Travel Restrictions
J.4	Coordinated Operations
J.5	Detour Signing Sheets
U Sheets	**500 Series, Mod.Stds. and Detail Sheets**
U.1 - 5	Plan View Sheets - For Information Only
U.6	Guardrail Layout Detail Sheets

IOWA DOT

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM

IDA COUNTY

SEAL COAT

Chestnut St in Battle Creek
to N Jct US 59

SCALES: As Noted

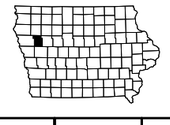
Refer to the Proposal Form for list of applicable specifications.

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 34
PROJECT IDENTIFICATION NUMBER	
26-47-175-020	
PROJECT NUMBER	
STPN-175-3(063)--2J-47	
R.O.W. PROJECT NUMBER	



DESIGN DATA RURAL

2026	AADT	1,980	V.P.D.
20 –	AADT	–	V.P.D.
20 –	DHV	–	V.P.H.
TRUCKS		5	%
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.

Signature — Date: 09/01/2026

JUSTIN M. POTTORFF
Printed or Typed Name

My license renewal date is December 31, 2026

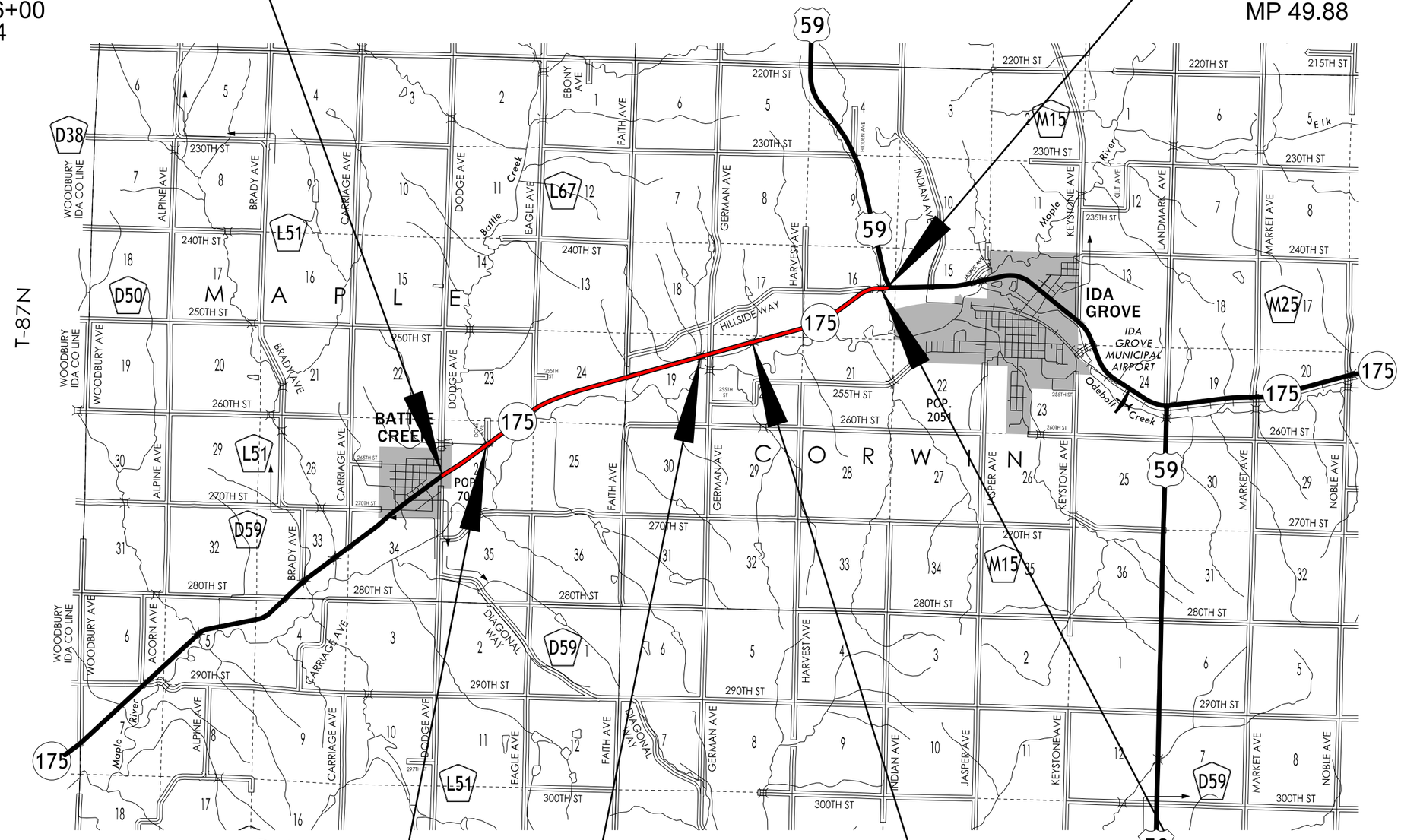
Pages or sheets covered by this seal: ALL

FILE NO.	ENGLISH	DESIGN TEAM District 3	IDA COUNTY	PROJECT NUMBER STPN-175-3(063)--2J-47	SHEET NUMBER A.1

7:55:45 AM 8/31/2026 ASCHWAR pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\4717502026\DistrictDesign\STPN-175-3(063)--2J-47\CADD_Files\Sheet_Files\SHT_47175063_A01.dgn

BEGIN CONSTRUCTION
STA. 816+00
MP 44.54

END CONSTRUCTION
STA. 1098+90
MP 49.88



FHWA # 29241

FHWA # 29251

FHWA # 29261

FHWA # 29271

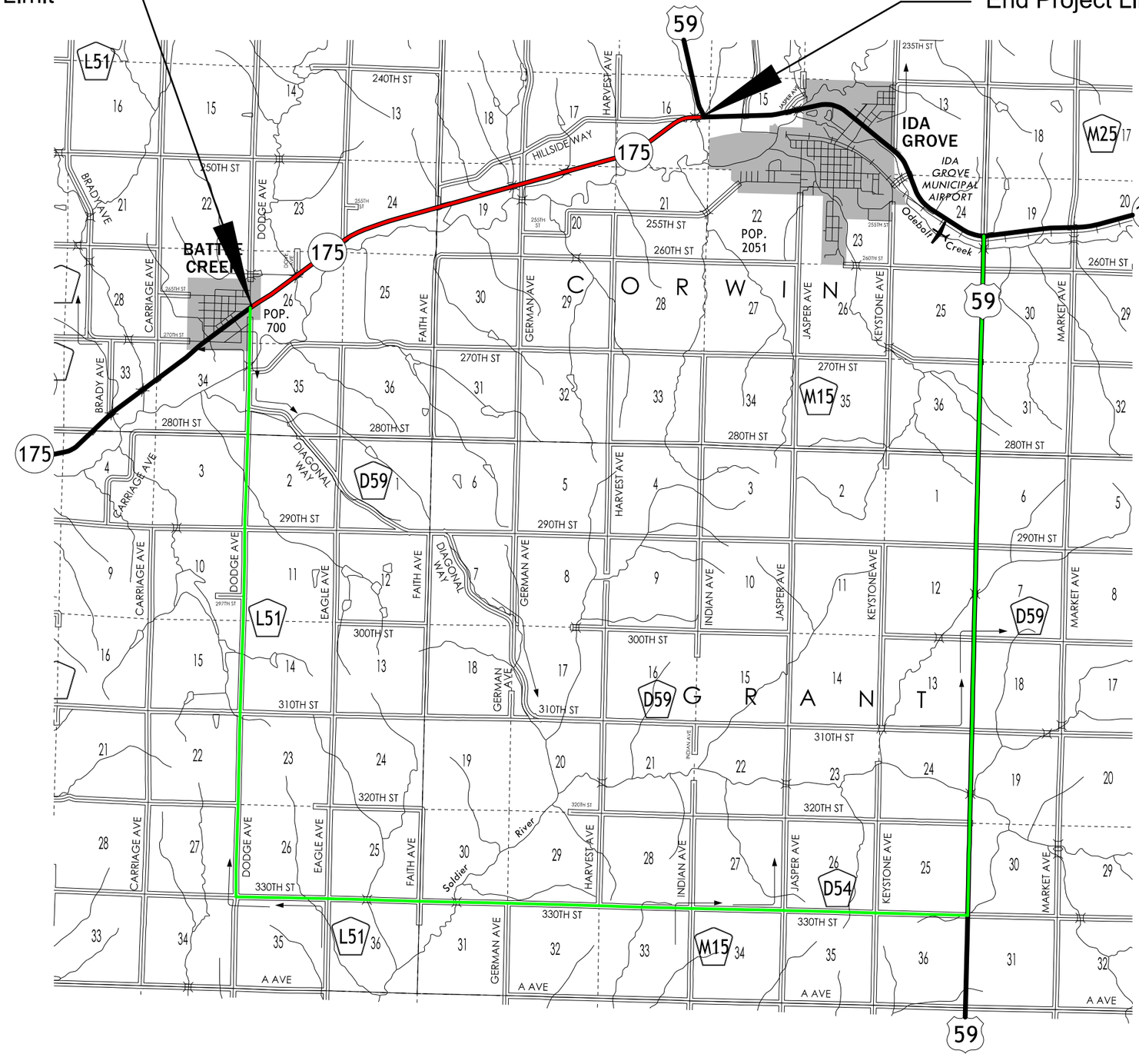
LOCATION MAP SCALE
0 1 2 3
Miles

FILE NO.	ENGLISH	DESIGN TEAM District 3	IDA COUNTY	PROJECT NUMBER STPN-175-3(063)--2J-47	SHEET NUMBER A.2

7:55:46 AM 8/31/2026 ASCHWAR pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\4717502026\DistrictDesign\STPN-175-3(063)--2J-47\CADD_Files\Sheet_Files\SHT_47175063_A01.dgn

Begin Project Limit

End Project Limit



Detour Route

Project Limits

Detour Map

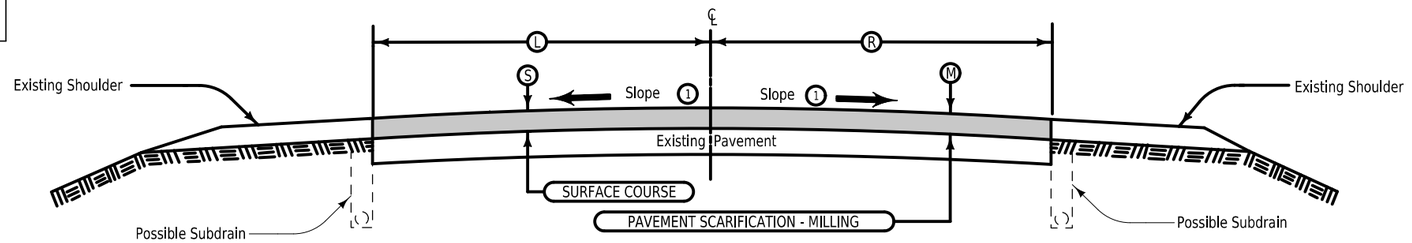
Detour signing to be done by Contractor

FILE NO.	ENGLISH	DESIGN TEAM District 3	IDA COUNTY	PROJECT NUMBER STPN-175-3(063)--2J-47	SHEET NUMBER A.3

7:55:46 AM 8/31/2026 ASCHWAR pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\4717502026\DistrictDesign\STPN-175-3(063)--2J-47\CADD_Files\Sheet_Files\SHT_47175063_A01.dgn

2618
MODIFIED

DESIGN RATES		
ITEM	RATE	QUANTITY
Surface Course	147 lbs./cu.ft.	Tons
Tack Coat	0.05 gal./sq.yd.	Gal.
Scarification	145 lbs./cu.ft.	Tons



Notes:

Section shown in the direction of travel

(1) Match finished slope to existing pavement, except that the maximum allowable slope is 3.0 %, minimum allowable slope is 2.0 %. Section may be modified as directed by the Engineer through areas of special shaping.

Refer to tabulation listing of superelevated curves and Standard Road Plans for additional requirements through superelevated curves.

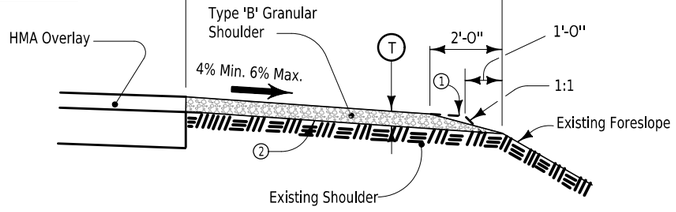
(2) Tack Coat estimated for 1 application. Incidental to mainline quantities.

Design Quantities Per Station											
Location			(S)	(M)	(L)	(R)	TACK COAT (2)	SCARIFICATION	HMA SURFACE	PG58-28S BINDER	Remarks
Road Identification	Station To Station		Inches	Inches	Feet	Feet	GAL	SY	TONS	TONS	
IA 175	1075+00	1084+00	2.0	2.0	14	14	31.11	311.11	34.30	2.06	

TYPICAL CROSS SECTION
HMA RESURFACING & PAVEMENT SCARIFICATION

7135
Modified

DESIGN RATES		
ITEM	RATE	QUANTITY
Granular Shoulder	140 lbs./cu.ft.	Tons



(1) Place and compact material to the dashed lines; then blade and shape to foreslope that portion above the solid line in the outer 2' and roll with loaded truck tire.

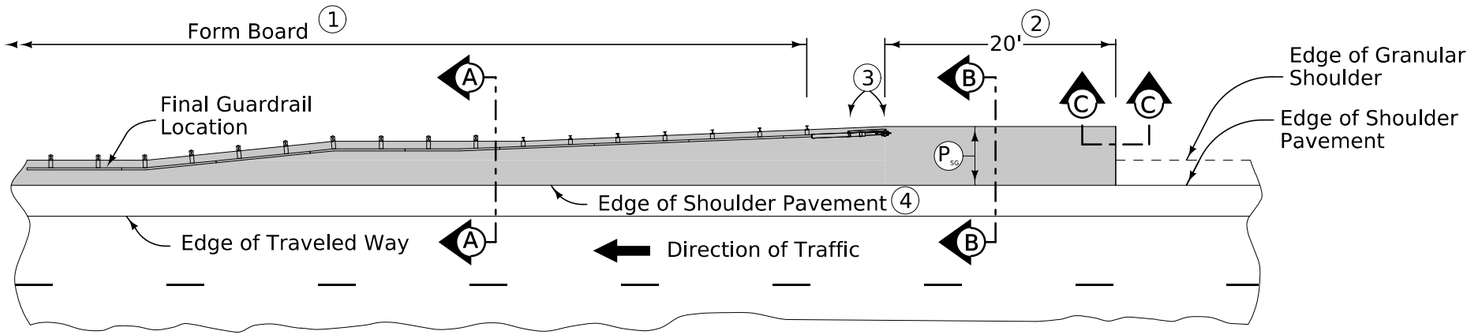
(2) Existing shoulder surface to be shaped to a uniform cross slope prior to placing granular shoulder material. Shape to ensure the thickness of the granular shoulder material is not less than the thickness of the resurfacing.

(3) Per station.

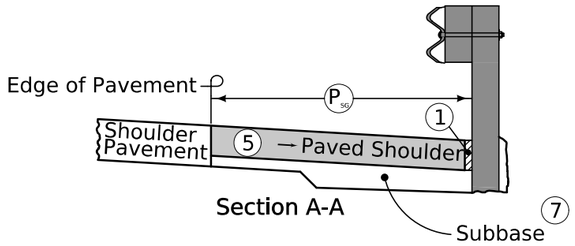
LOCATION				(T)	(E)	BLADE & SHAPE	TONS	REMARKS
ROAD IDENTIFICATION	STATION TO STATION		SIDE	Inches	Feet	STA (3)	(3)	
IA 175	1075+00	1084+00	RT	2.0	5	1.00	5.83	
IA 175	1075+00	1084+00	LT	2.0	5	1.00	5.83	

TYPICAL SECTION
FOR TYPE 'B'
GRANULAR SHOULDER
ADJACENT TO HMA OVERLAY

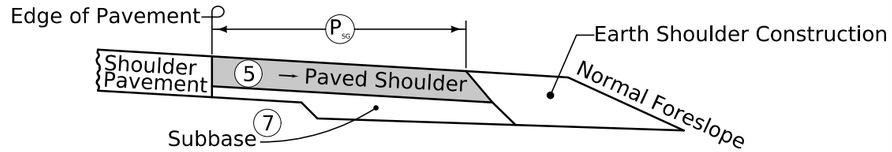
7157
Modified



PLAN VIEW

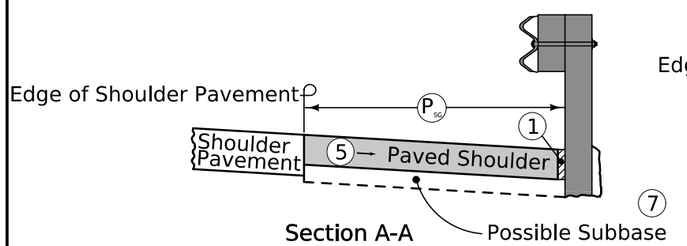


Section A-A

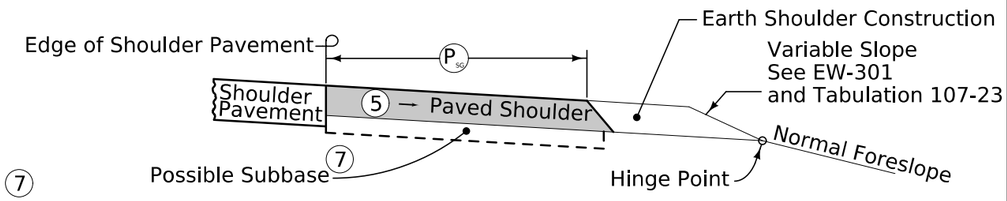


Section B-B

NEW CONSTRUCTION 6



Section A-A



Section B-B

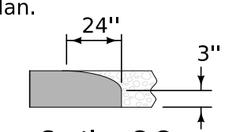
EXISTING SHOULDER

8" PCC Paved Shoulder at guardrail. Use 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. 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.



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

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

FILE NO.	ENGLISH	DESIGN TEAM **District 3**	**IDA** COUNTY	PROJECT NUMBER **STPN-175-3(063)--2J-47**	SHEET NUMBER **B.2**

8:55:24 AM 8/31/2026 ASCHWAR pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\4717502026\DistrictDesign\STPN-175-3(063)--2J-47\CADD_Files\Sheet_Files\SHT_47175063_B03.dgn

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Iowa DOT	
1	2102-0425071	SPECIAL BACKFILL	CY	84.3	Refer to Tabs 112-09
2	2102-2625001	EMBANKMENT-IN-PLACE, CONTRACTOR FURNISHED	CY	69.5	Refer to Tab. 107-23
3	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	60	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	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	105	Refer to Typical 7135 on B Sheets.
5	2122-5190008	PAVED SHOULDER, P.C. CONCRETE, 8 IN.	SY	267.5	Refer to Tab. 112-09
6	2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA	2.24	Refer to Tab. 112-09. Requires a minimum of 4 inches of topsoil. Place according to Article 2105.03,B of the Standard Specifications.
7	2214-5145150	PAVEMENT SCARIFICATION, NOMINAL THICKNESS	SY	2,177.78	Refer to Typical 2618 on B Sheets.
8	2214-7450050	BLADING AND SHAPING SHOULDER MATERIAL	STA	18	Refer to Typical 7135 on B Sheets.
9	2303-1033504	HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION L-4	TON	308.7	Refer to Typical 2618 on B Sheets.
10	2303-1258283	ASPHALT BINDER, PG 58-28S, STANDARD TRAFFIC	TON	18.52	Refer to Typical 2618 on B Sheets. Estimated at 6% of HMA.
11	2306-1000000	ASPHALT EMULSION FOR FOG SEAL (PAVEMENT)	GAL	1,997.26	See Special Provision for Polymer Scrub Seal for more information.
12	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL	LF	368	Refer to Tab. 110-7A on C Sheets.
13	2505-4008300	STEEL BEAM GUARDRAIL	LF	125	Refer to Tab. 108-08A
14	2505-4008410	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION, BA-201	EACH	3	
15	2505-4021720	STEEL BEAM GUARDRAIL TANGENT END TERMINAL, BA-205	EACH	3	
16	2510-6745850	REMOVAL OF PAVEMENT	SY	58	Refer to Tabs.110-1. Depth of HMA shoulder is assumed to be full depth. Item is for the removal of HMA shoulder pavement at guardrail.

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Iowa DOT	
17	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	1,339.97	Refer to Tab. 108-22 on C Sheets.
18	2527-9270112	GROOVES CUT FOR PAVEMENT MARKINGS	STA	94.06	
19	2528-2518000	SAFETY CLOSURE	EACH	2	Refer to Tab. 108-13A on C Sheets.
20	2528-8445110	TRAFFIC CONTROL	LS	1	Refer to Traffic Control Plan on Tab. 108-23A on J Sheets. All detour signing will be fabricated, installed, maintained and removed by the Contractor.
21	2528-8445113	FLAGGERS	EACH	0	See Proposal.
22	2528-8445115	PILOT CARS	EACH	0	
23	2528-8445116	FLAGGER WITH AFAD	EACH	0	See Proposal.
24	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDAY	0	See Proposal. Coordinate message content for the PDMS board 7 to 10 days ahead of the detour start and are requested through the duration of the project. Message content for the PDMS can be supplied by either the Engineer or the Traffic Tech. Engineer, Dennis Clark: 515-509-7036; dennis.clark@iowadot.us. Traffic Tech, Bethany Waltersdorf: 712-539-1033; bethany.waltersdorf@iowadot.us.
25	2529-2242304	CD JOINT ASSEMBLY	EACH	1	Refer to Tab. 102-6C on C Sheets.
26	2529-5070110	PATCHES, FULL-DEPTH FINISH, BY AREA	SY	522.7	
27	2529-5070120	PATCHES, FULL-DEPTH FINISH, BY COUNT	EACH	43	
28	2533-4980005	MOBILIZATION	LS	1	- -
29	2548-0000100	MILLED SHOULDER RUMBLE STRIPS, HMA SURFACE	STA	549	Refer to Tab. 112-10 on C Sheets.
30	2548-0000110	ASPHALT EMULSION FOR FOG SEAL (SHOULDER RUMBLE STRIPS)	GAL	594.8	
31	2551-0000230	PERMANENT CRASH CUSHION, SEVERE USE (SU)	EACH	1	Refer to Tab. 108-30. Refer to specification 2551
32	2599-9999006	('GALLONS' ITEM) Emulsion for Scrub Seal	GAL	29,126.69	See Special Provision for Polymer Scrub Seal for more information.
33	2599-9999018	('SQUARE YARDS' ITEM) Scrub Seal Area	SY	83,219.11	See Special Provision for Polymer Scrub Seal for more information. Use L-4 Friction aggregate for the polymer scrub seal. Gap bridge decks and deduct from measured area.

100_01D

8/15/22

PROJECT DESCRIPTION

This is a Scrub Seal with Spot HMA Milling and Resurfacing project on IA 175 in Ida County from just East of Chestnut St. in Battle Creek to just West of the North Junction of US 59. Other work includes PCC Patching, Rumble Strips, Guardrail updates, and Pavement Markings.

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	Ida	IA-175	EB	44.51	49.92	2021	M	MP-175-3(704)40--76-47													HMA crack filling
2.0	Ida	IA-175	EB	44.51	49.92	2005	W	STPN-175-3(43)--2J-47	HMA	1.5	HMA	2.0	HMA	9.0			LOGAN	C.LST.			
3.0	Ida	IA-175	EB	44.51	49.92	2005		STPN-175-3(43)--2J-47	HMA	1.5	HMA	2.0					LOGAN	C.LST.			
4.0	Ida	IA-175	EB	44.51	49.92	1941		FA-732B	PC7	7.5							SACTON	GRAVEL	3		

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)
BA-500	04-20-21	Temporary Crash Cushions Sand Barrel
PM-110	10-15-24	Line Types
PM-115	10-20-26	Grooving for Line Types
PR-103	10-21-25	Full Depth PCC Patch with Dowels
PR-202	10-21-14	Notches for Resurfacing (with or without Runout)
PV-12	10-20-26	Milled Shoulder Rumble Strips
PV-101	10-20-26	Joints
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
TC-233	10-17-17	Pavement Marking Operations Two-Lane
TC-252	10-20-26	Routes Closed to Traffic

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.

Line No.	Station	Type of Notch or Runout	S (IN)	I (IN)	DI (IN)	L (FT)	M (IN)	Pavement Scarification (SY) (1)	Remarks
1.0	1076+00.00	Type N2	2.0				2.0		
2.0	1083+00.00	Type N2	2.0				2.0		

FULL-DEPTH PATCHES

Line No.	Count	Station	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)	Patch Subdrain PR-101 or PR-140 (No.)	'CD' Joints (No.)	'CT' Joints (No.)	'EF' Joints PR-101 (No.)	Anchor Lugs Removal (No.)	Remarks
1.0	2	821+92.00	EB	Both	6.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	18.7										
2.0	2	822+12.00	EB	Both	6.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	18.7										
3.0	2	823+09.00	EB	Both	6.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	18.7										
4.0	2	825+02.00	EB	Both	8.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	24.9										
5.0	2	839+00.00	EB	Both	6.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	18.7										
6.0	1	841+68.00	EB	Right	10.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	15.6										
7.0	2	844+30.00	EB	Both	6.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	18.7										
8.0	2	849+18.00	EB	Both	8.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	24.9										
9.0	2	852+20.00	EB	Both	6.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	18.7										
10.0	1	864+80.00	EB	Left	6.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	9.3										
11.0	2	865+35.00	EB	Both	6.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	18.7										
12.0	2	866+80.00	EB	Both	6.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	18.7										
13.0	2	872+79.00	EB	Both	10.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	31.1										
14.0	2	909+13.00	EB	Both	6.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	18.7										
15.0	2	917+70.00	EB	Both	10.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	31.1										
16.0	1	917+79.00	EB	Right	10.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	15.6										
17.0	2	945+77.00	EB	Both	12.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	37.3										
18.0	2	946+30.00	EB	Both	8.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	24.9										
19.0	1	853+13.00	EB	Left	8.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	12.4										
20.0	2	974+85.00	EB	Both	10.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	31.1										
21.0	2	1012+80.00	EB	Both	6.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	18.7										
22.0	1	1047+37.00	EB	Left	8.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	12.4										
23.0	1	1054+20.00	EB	Left	20.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	31.1						1				
24.0	2	1068+19.00	EB	Both	8.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	24.9										
25.0	1	1098+15.00	EB	Left	6.0	14.0	11.0	Finish	PCC With Dowels (PR-103)	9.3										
Total	43									522.6666666 96						1				

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	PCC Length (STA)	HMA Length (STA)	Fog Seal* Shoulder (GAL)	Fog Seal (SY)**	Effective Shoulder Width PCC (FT)	Effective Shoulder Width HMA (FT)	Effective Shoulder Width Granular\Earth (FT)	Remarks
1.0	IA 175	824+40.00	1098+90.00	HMA	Right Shoulder	Milled Shoulder Rumble Strips	Asphalt Emulsion		274.50	297.4	4575.0		4.0	5.0	
2.0	IA 175	824+40.00	1098+90.00	HMA	Left Shoulder	Milled Shoulder Rumble Strips	Asphalt Emulsion		274.50	297.4	4575.0		4.0	5.0	
Total									549.00	594.8					

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	Station From	Station To	Lane	Marking Type	Left	Center	Right	Groove Marking Needed?	Groove Qty. (STA)	BCY6 (STA)	BCY6 Factored (STA)	ELW6 (STA)	ELW6 Factored (STA)	NPY6** (STA)	NPY6** Factored (STA)	Remarks
1.0	IA 175	816+00.00	821+43.00	Both	Waterborne/Solvent Paint	X	X	X	No		5.43	1.36	10.86	10.86			Temp. before grooving/rumbles
2.0	IA 175	821+43.00	827+88.00	Both	Waterborne/Solvent Paint	X	X	X	No				12.90	12.90	6.45	8.06	Temp. before grooving/rumbles
3.0	IA 175	827+88.00	839+38.00	Both	Waterborne/Solvent Paint	X	X	X	No		11.50	2.88	23.00	23.00			Temp. before grooving/rumbles
4.0	IA 175	839+38.00	844+95.00	Both	Waterborne/Solvent Paint	X	X	X	No				11.14	11.14	5.57	6.96	Temp. before grooving/rumbles
5.0	IA 175	844+95.00	847+59.00	Both	Waterborne/Solvent Paint	X	X	X	No		2.64	0.66	5.28	5.28			Temp. before grooving/rumbles
6.0	IA 175	847+59.00	854+59.00	Both	Waterborne/Solvent Paint	X	X	X	No				14.00	14.00	7.00	8.75	Temp. before grooving/rumbles
7.0	IA 175	854+59.00	1094+59.00	Both	Waterborne/Solvent Paint	X	X	X	No		240.00	60.00	480.00	480.00			Temp. before grooving/rumbles
8.0	IA 175	1094+59.00	1098+90.00	Both	Waterborne/Solvent Paint	X	X	X	No				8.62	8.62	4.31	5.39	Temp. before grooving/rumbles
9.0	IA 175	1075+00.00	1084+00.00	Both	Waterborne/Solvent Paint	X	X	X	No		9.00	2.25	18.00	18.00	0.00		Temp. before surface layer
10.0	IA 175	816+00.00	821+43.00	Both	Waterborne/Solvent Paint	X	X	X	No				10.86	10.86			Permanent
11.0	IA 175	816+00.00	821+43.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	1.36	5.43	1.36					Permanent
12.0	IA 175	821+43.00	827+88.00	Both	Waterborne/Solvent Paint	X	X	X	No				12.90	12.90			Permanent
13.0	IA 175	821+43.00	827+88.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	8.06					6.45	8.06	Permanent
14.0	IA 175	827+88.00	839+38.00	Both	Waterborne/Solvent Paint	X	X	X	No				23.00	23.00			Permanent
15.0	IA 175	827+88.00	839+38.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	2.88	11.50	2.88					Permanent
16.0	IA 175	839+38.00	844+95.00	Both	Waterborne/Solvent Paint	X	X	X	No				11.14	11.14			Permanent
17.0	IA 175	839+38.00	844+95.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	6.96					5.57	6.96	Permanent
18.0	IA 175	844+95.00	847+59.00	Both	Waterborne/Solvent Paint	X	X	X	No				5.28	5.28			Permanent
19.0	IA 175	844+95.00	847+59.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	0.66	2.64	0.66					Permanent
20.0	IA 175	847+59.00	854+59.00	Both	Waterborne/Solvent Paint	X	X	X	No				14.00	14.00			Permanent
21.0	IA 176	847+59.00	854+59.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	8.75					7.00	8.75	Permanent
22.0	IA 175	854+59.00	1094+59.00	Both	Waterborne/Solvent Paint	X	X	X	No				480.00	480.00			Permanent
23.0	IA 175	854+59.00	1094+59.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	60.00	240.00	60.00					Permanent
24.0	IA 175	1094+59.00	1098+90.00	Both	Waterborne/Solvent Paint	X	X	X	No				8.62	8.62			Permanent
25.0	IA 175	1094+59.00	1098+90.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	5.39					4.31	5.39	Permanent
Total										94.06		132.05		1149.60		58.32	

108_13A
3/27/25

SAFETY CLOSURES

Station	Road Closure Qty.	Hazard Closure Qty.	Remarks
814+00.00	1		Begin construction
1100+00.00	1		End construction
Total	2		

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.

No.	Direction of Traffic (1)	Station From	Station To	Side	Removal of Guardrail (2) (LF)
1	EB	844+44.00	845+78.00	Right	134.0
2	WB	845+17.00	845+78.00	Left	61.0
3	EB	847+48.00	848+09.00	Right	61.0
4	WB	847+48.00	848+60.00	Left	112.0
Total					368

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REMOVAL OF PAVEMENT

Refer to Tabulation 102-5.

* Not a bid item.

Line No.	Station From	Station To	Side	Pavement Type	Area (SY)	Saw Cut* (LF)	Remarks
1.0	843+22.00	844+47.00	Right	HMA	27.8	125.0	
2.0	848+08.00	849+44.00	Right	HMA	30.2	130.0	

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	EB	845+74.70	Right	6 to 1	53.1	13.0	115.6	18.5			163.3	20.0	95.0		43.1	
2.0	WB	845+74.70	Left	6 to 1	65.6	13.0					113.3	15.5	78.0		0.0	UAC
3.0	EB	847+55.00	Right	6 to 1	65.6	13.0					113.3	15.5	78.0		26.4	

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 175	EB	843+22.00	844+47.00	6.0	6.0	
3.0	IA 175	EB	848+08.00	849+44.00	6.0	6.0	

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 (3) (SY)	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 175	EB	843+97.00	845+20.00	Right				123.00					146.9	146.9		46.300									1.23			
IA 175	EB	847+85.00	848+86.00	Right				101.00					101.0	120.6		38.000									1.01			

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	EB	Right	845+74.70	20.0	BA-201	1	BA-205	1	53.125	62.50		47.70			3				1				75.0	
2.0	WB	Left	845+74.70	20.0	BA-201	1	BA-205	1	65.625			47.70			3			1					25.0	
3.0	EB	Right	847+55.00	20.0	BA-201	1	BA-205	1	65.625			47.70			3				1				25.0	

CRASH CUSHIONS

* Bid Item
1. Lane(s) to which the installation is adjacent.
2. Complete this section when using the Temporary Crash Cushion bid item and Earthwork is needed for Sand Barrel placement. Refer to BA-500.

Line No.	Lane	Station	Side	Obstacle Width (FT)	Crash Cushion Type	Crash Cushion Quantity	V (FT) (2)	W (FT) (2)	X (FT) (2)	Y (FT) (2)	Z (FT) (2)	Excavation Class 10* (CY)	Embankment in Place* (CY)	Obstacle Description	Remarks
1.0	WB	847+55.00	Left		Permanent Severe Use	1								Bridge End	

232_03A
9/28/22

EROSION CONTROL (RURAL SEEDING)

Area to be seeded is estimated to be less than 1 acre. If the contractor determines the area exceeds 2 acres, notify the Engineer. Approved quantity in excess of 2 acres will be paid for as extra work according to Article 1109.03,B of the Standard Specifications.

Following the completion of work in a disturbed area and according to the seeding dates in Section 2601 of the Standard Specifications, place seed, fertilizer, and mulch on the disturbed area as follows:

Place seed and fertilize according to the requirements of Article 2601.03,C,3 and Section 4169 of the Standard Specifications.

Place mulch according to the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications.

Preparing the seedbed, furnishing and applying seed, fertilizer, and mulch are all incidental to mobilization and will not be paid for separately.

232_11
6/21/23

EROSION CONTROL (STABILIZING CROP SEEDING)

Area to be seeded is estimated to be less than 1 acre. If the contractor determines the area exceeds 2 acres, notify the Engineer. Approved quantity in excess of 2 acres will be paid for as extra work according to Article 1109.03,B of the Standard Specifications.

If outside of permanent seeding dates in Section 2601 of the Standard Specifications, or if required by a storm water permit, place stabilizing crop, fertilizer, and mulch on the disturbed area as follows:

Place seed and fertilize according to the requirements of Article 2601.03,C,1 and Section 4169 of the Standard Specifications.

Place mulch according to the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications.

Preparing the seedbed, furnishing and applying seed, fertilizer, and mulch are incidental to mobilization and will will not be paid for separately.

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.

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 Chestnut Street in Battle Creek to the intersection of US 59 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 from the end of project to the East Junction of US 59 will be maintained on the project at all times.

4. Traffic control on this project shall be found in accordance with the TC series of Standard Road Plans found in Tabulation 105-4 and/or appropriate Detail Sheets 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.

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

6. Contractor shall notify the Engineer 14 days prior to start of the detour.

108_26A
8/15/22

STAGING NOTES

Stage 1: Patching, spot mill and resurfacing.

Stage 2: Detour, scrub seal, guardrail, paint, grooving, 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 175	EB	Ida	Chestnut St. to Jct. US 59		Traffic Control Device		Horizontal	N/A	28	N/A	N/A	
2.0	IA 175	EB	Ida	0.3 Mi. E. of Battle Creek	Battle Creek	Barrier	FHWA 29241	Horizontal	N/A	40	N/A	N/A	
3.0	IA 175	EB	Ida	2.0 Mi. W. of W. Jct. 59	Small Natural Stream	Traffic Control Device	FHWA 29251	Horizontal	N/A	28	N/A	N/A	
4.0	IA 175	EB	Ida	1.5 Mi. W. of W. Jct. 59	Small Natural Stream	Traffic Control Device	FHWA 29261	Horizontal	N/A	28	N/A	N/A	
5.0	IA 175	EB	Ida	0.3 Mi. W. of W. Jct. US #59	Small Stream	Traffic Control Device	FHWA 29271	Horizontal	N/A	28	N/A	N/A	

111_01

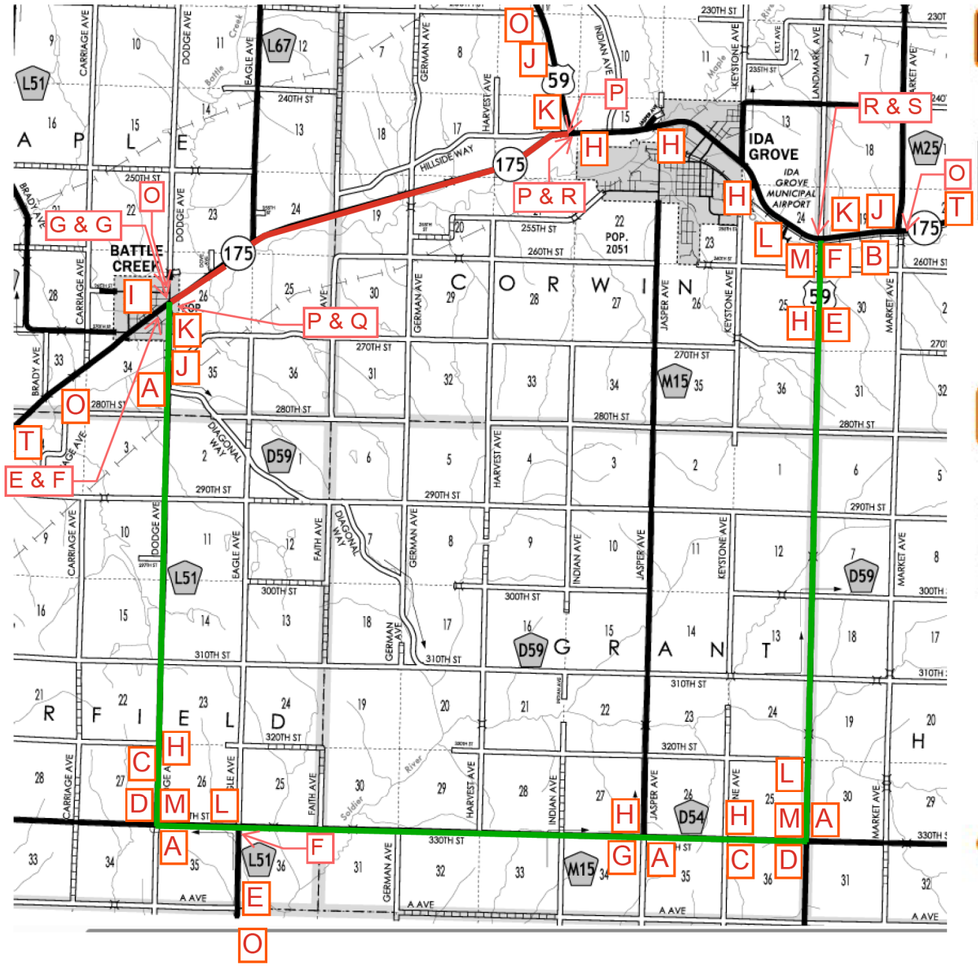
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COORDINATED OPERATIONS

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
None	

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A



B



C



D



E



F



G



H



I



J



K



L



M



N



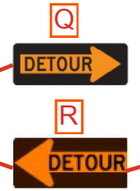
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P



Q

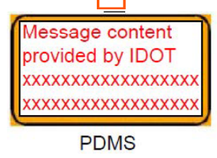


R

S



T



PDMS

Project Closure

Project Detour

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.

Sign	MUTCD	Size	#
Detour	M4-8	24x12	38
East	M3-2	24x12	18
West	M3-4	24x12	20
End	M4-8B	24x12	2
IA 175 Shield	M1-6C	30x24	38
Advance Turn Arrow Left 90	M5-1B	21x15	5
Single Left Arrow	M6-1	21x15	5
Advance Turn Arrow Right 90	M5-1	21x15	6
Single Right Arrow	M6-1	21x15	6

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



FOR INFORMATION ONLY

PLAN VIEW - AERIAL

FILE NO.	ENGLISH	DESIGN TEAM District 3	IDA COUNTY	PROJECT NUMBER STPN-175-3(063)--2J-47	SHEET NUMBER U.1	

3:55:44 PM 8/25/2026 ASCHWAR pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\4717502026\DistrictDesign\STPN-175-3(063)--2J-47\CADD_Files\Sheet_Files\SHT_47175063_U01.dgn

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3:56:03 PM 8/25/2026 ASCHWAR pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\4717502026\DistrictDesign\STPN-175-3(063)--2J-47\CADD_Files\Sheet_Files\SHT_47175063_U01.dgn

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995+00
1000+00
1005+00
1010+00
STA: 1013+74.80
UAC: 10' X 4' X 84'
Twin RCB
1015+00
1020+00
1025+00
175
175
1025+00
1030+00
1035+00
1040+00
1045+00
1050+00
1055+00
175
175
FOR INFORMATION ONLY
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FEET
Maple River

FILE NO.	ENGLISH	DESIGN TEAM District 3	IDA COUNTY	PROJECT NUMBER STPN-175-3(063)--2J-47	SHEET NUMBER U.4	

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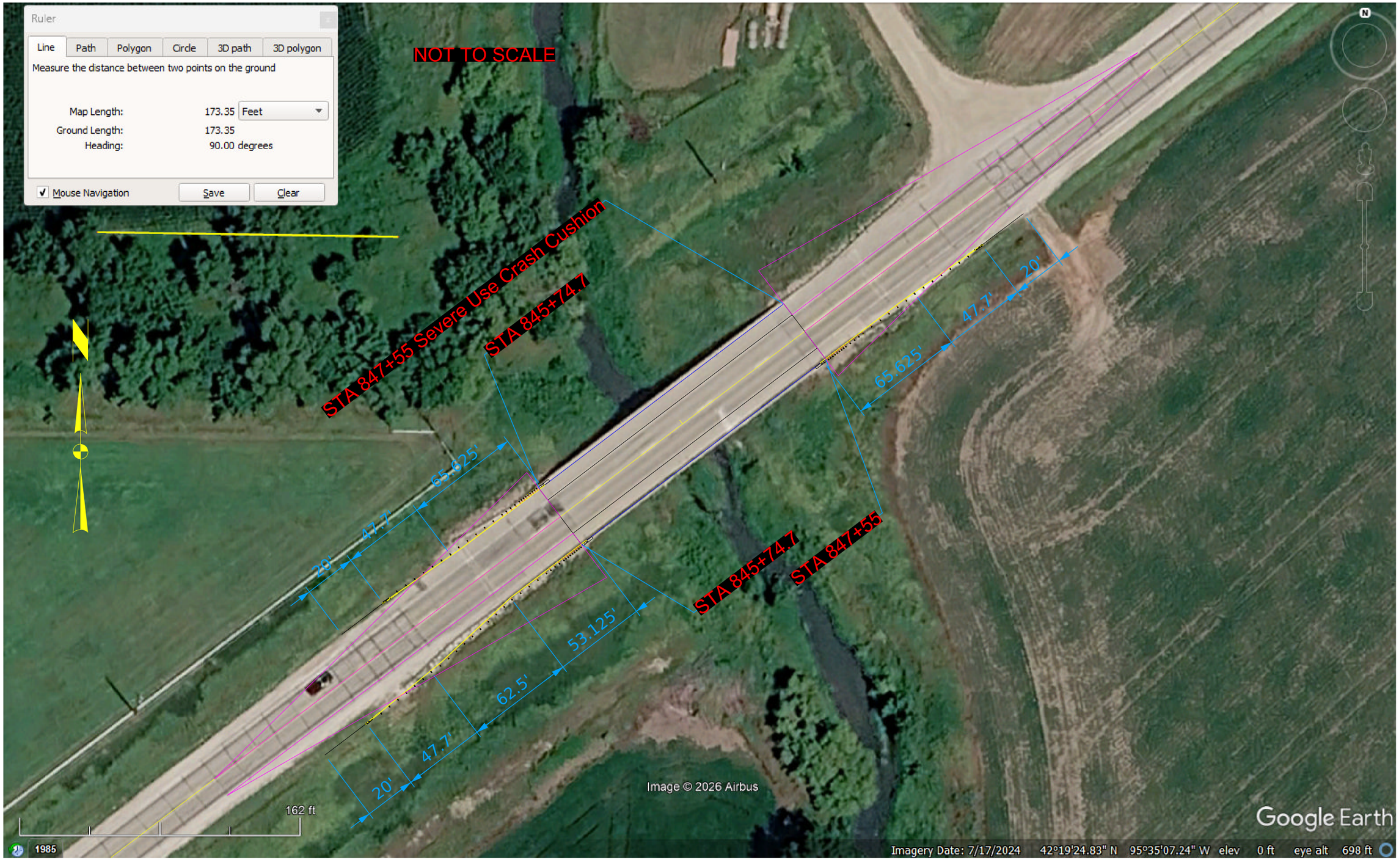
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FILE NO.	ENGLISH	DESIGN TEAM District 3	IDA COUNTY	PROJECT NUMBER STPN-175-3(063)--2J-47	SHEET NUMBER U.5

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FILE NO.	ENGLISH	DESIGN TEAM **District 3**	**IDA** COUNTY	PROJECT NUMBER **STPN-175-3(063)--2J-47**	SHEET NUMBER **U.6**

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