LETTING DATE 12-15-26

HMA JOINT & CRACK SEALING
MP-021-6(705)55--76-06

BENTON COUNTY

IOWA DOT

REVISIONS

TOTAL 9
PROJECT IDENTIFICATION NUMBER
26-06-021-020
PROJECT NUMBER
MP-021-6(705)55--76-06
R.O.W. PROJECT NUMBER

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM
BENTON COUNTY
HMA JOINT & CRACK SEALING
In Belle Plaine, from 1st Street to 15th Street

SCALES: As Noted

INDEX OF SHEETS

No.	DESCRIPTION
A Sheet	Title Sheet
A.1	Title Sheet
C Sheets	Quantities and General Information
C.1 - 3	Quantities and General Information
J Sheets	Traffic Control
J.1 - 3	Traffic Control Plan
U Sheets	Detail Sheets
U.1 - 2	Detail Sheets

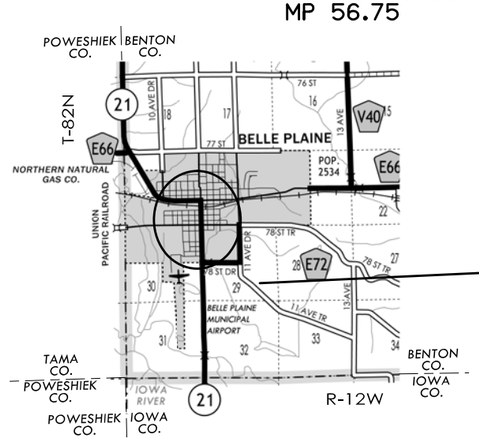
** Note:
This project uses stationing in reverse direction of route mileposts from Sta. 1541+00.77 to Sta. 1570+92.00. The orientation of all cross sections is shown in direction of increased stationing.

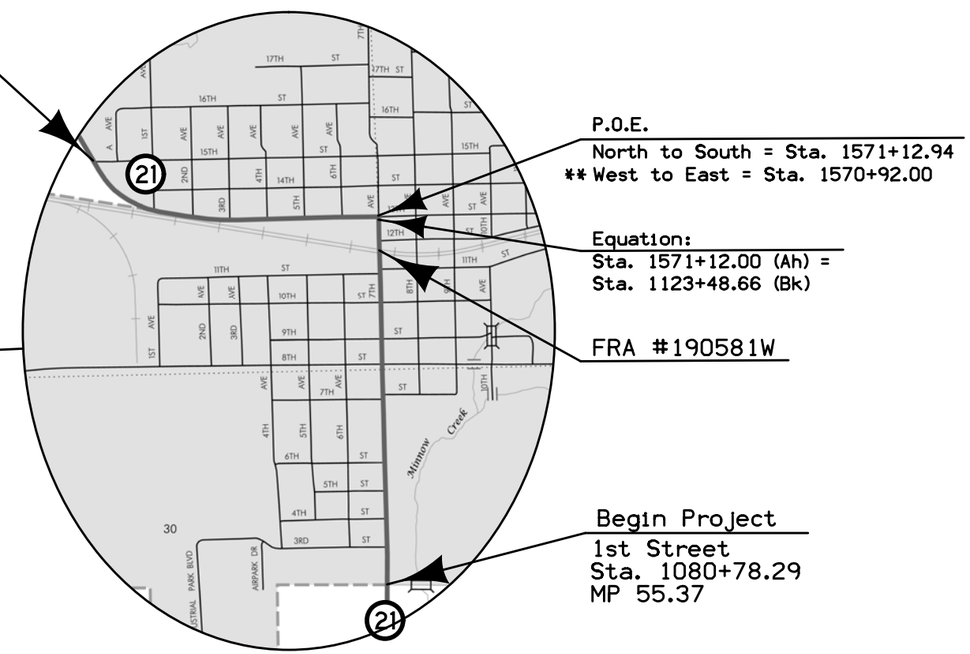
Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.13 of the Specifications.

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

End Project
15th Street
** Sta. 1541+00.77
MP 56.75





P.O.E.
North to South = Sta. 1571+12.94
** West to East = Sta. 1570+92.00

Equation:
Sta. 1571+12.00 (Ah) =
Sta. 1123+48.66 (Bk)

FRA #190581W

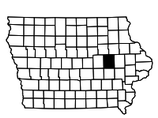
Begin Project
1st Street
Sta. 1080+78.29
MP 55.37

DESIGN DATA URBAN

2024	AADT	4,300	V.P.D.
20 –	AADT	--	V.P.D.
20 –	DHV	--	V.P.H.
TRUCKS		8	%
Total Design ESALs		--	

Scan the QR code or click the link below to leave plan quality feedback and help us improve future projects.

Design QR Feedback Link



LOCATION MAP SCALE
0 1 2 3
Miles

ROADWAY DESIGN

LICENSED PROFESSIONAL ENGINEER
Seth M. Kjormoe
24111
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: 9/30/26

Seth M. Kjormoe
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 Kjormoe/Holub	BENTON COUNTY	PROJECT NUMBER MP-021-6(705)55--76-06	SHEET NUMBER A.1

9:20:17 AM 9/30/2026 rholub pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\0602102026\DistrictDesign\06021705a01.dgn

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Roadway Items : MP-021-6(705)55--76-06

Item no.	Item Code	Item	Unit	Quantities Estimated Roadway Items	Estimate Reference Notes
1	2528-8445110	TRAFFIC CONTROL	LS	1	Refer to Tab. 108-23A.
2	2528-8445113	FLAGGERS	EACH	0	See Proposal.
3	2528-8445116	FLAGGER WITH AFAD	EACH	0	See Proposal.
4	2533-4980005	MOBILIZATION	LS	1	
5	2541-1004011	CRACK AND JOINT CLEANING AND SEALING (HMA SURFACES)	MILE	1.6	Refer to the location map for project limits. Refer to the U sheets for typical cross sections. The quantity includes 1.05 miles of 3 lane pavement. Paved shoulders shall be included, but the length of paved shoulder, regardless of width, will not be measured separately. Omit PCC pavement.
6	2541-1005001	SEALER MATERIAL (HMA SURFACES)	LB	3,840	

105_04
10/20/26

STANDARDS

The following Standards apply to construction work on this project.

Number	Date	Title
SI-881	10-20-26	Special Signs for Workzones
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-228	04-18-23	Lane Closure Involving TWLTL

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.

8/5/2026 10:31:40 AM Renee.Holub@dot.iowa.gov

108_23A
8/15/22

TRAFFIC CONTROL PLAN

1. Through traffic will be maintained on the project at all times.

8/14/2026 1:42:11 PM Renee.Holub@dot.iowa.gov

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
None	

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511 TRAVEL RESTRICTIONS

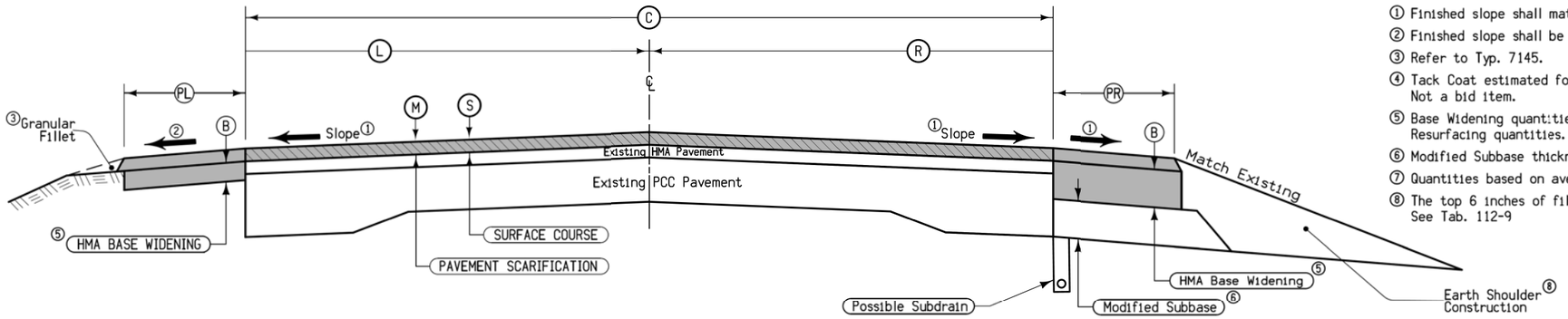
Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No. or Structure ID or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
			None									

= HMA Resurfacing and Paved Shoulder

= Pavement Scarification

TYPICAL CROSS SECTION HMA RESURFACING WITH MILLING

2602-A MODIFIED



Notes:

① Finished slope shall match existing pavement.
② Finished slope shall be 4%.
③ Refer to Typ. 7145.
④ Tack Coat estimated for 1 applications. Not a bid item.
⑤ Base Widening quantities are not included with Resurfacing quantities. Refer to Tab. 106-5.
⑥ Modified Subbase thickness shall be 12 Inches.
⑦ Quantities based on average widths.
⑧ The top 6 inches of fill material shall be Topsoil. See Tab. 112-9

DESIGN RATES	
ITEM	RATE
Surface Course	155 lbs./cu. ft.
Intermediate Course	150 lbs./cu. ft.
Tack Coat	0.05 gal./sq. yds.

TABLE OF DESIGN QUANTITIES Per Station

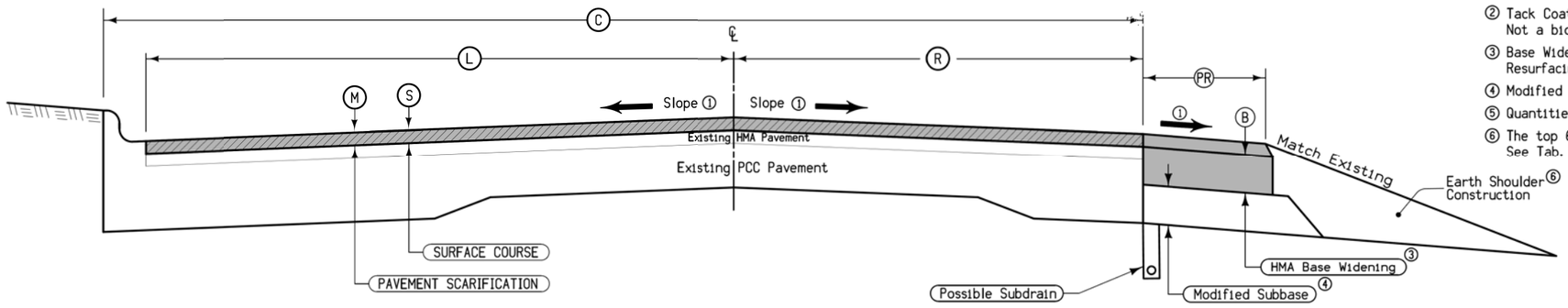
Location			(S)	(M)	(C)	(L)	(R)	(PL)	(PR)	Tack Coat Gallons ④	Asphalt Binder Tons	Hot Mix Asphalt (Tons) Surface	Pavement Scarification Tons	Remarks
Road ID	Station to Station		Inches	Inches	Feet	Feet	Feet	Feet	Feet					
Iowa 21	1080+78.29	1083+00.00	2.0	2.0	24.0 - 33.0	12.0 - 21.0	12.0	4.0	8.0	21.39	2.98	49.73	34.44	⑥ B.O.P. to beginning of Lt. C+G

= HMA Resurfacing and Paved Shoulder

= Pavement Scarification

TYPICAL CROSS SECTION HMA RESURFACING WITH MILLING

2602-B MODIFIED



Notes:

① Finished slope shall match existing pavement.
② Tack Coat estimated for 1 applications. Not a bid item.
③ Base Widening quantities are not included with Resurfacing quantities. Refer to Tab. 106-5.
④ Modified Subbase thickness shall be 12 Inches.
⑤ Quantities based on average widths.
⑥ The top 6 inches of fill material shall be Topsoil. See Tab. 112-9

DESIGN RATES	
ITEM	RATE
Surface Course	155 lbs./cu. ft.
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TABLE OF DESIGN QUANTITIES Per Station

Location			(S)	(M)	(C)	(L)	(R)	(PL)	(PR)	Tack Coat Gallons ④	Asphalt Binder Tons	Hot Mix Asphalt (Tons) Surface	Pavement Scarification Tons	Remarks
Road ID	Station to Station		Inches	Inches	Feet	Feet	Feet	Feet	Feet					
Iowa 21	1083+00.00	1091+65.72	2.0	2.0	34.5	21.0	12.0	--	8.0	22.78	3.18	52.96	39.88	⑥ Beginning of Lt. C+G to beginning of NB taper
Iowa 21	1091+65.72	1093+60.53	2.0	2.0	33.0 - 42.0	21.0	12.0 - 21.0	--	8.0 - 0.0	24.17	3.37	56.19	45.31	⑤ Beginning of NB taper to end of NB taper

FOR REFERENCE ONLY
NOT FOR CONSTRUCTION

FILE NO.	ENGLISH	DESIGN TEAM HARLE/STANLEY	BENTON COUNTY	PROJECT NUMBER HSIPX-021-4(029)--3L-06	SHEET NUMBER B.1	

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FILE NO.	ENGLISH	DESIGN TEAM Kjormoe/Holub	BENTON COUNTY	PROJECT NUMBER MP-021-6(705)55--76-06	SHEET NUMBER U.1	

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= HMA Resurfacing and Paved Shoulder

= Pavement Scarification

TYPICAL CROSS SECTION HMA RESURFACING WITH MILLING

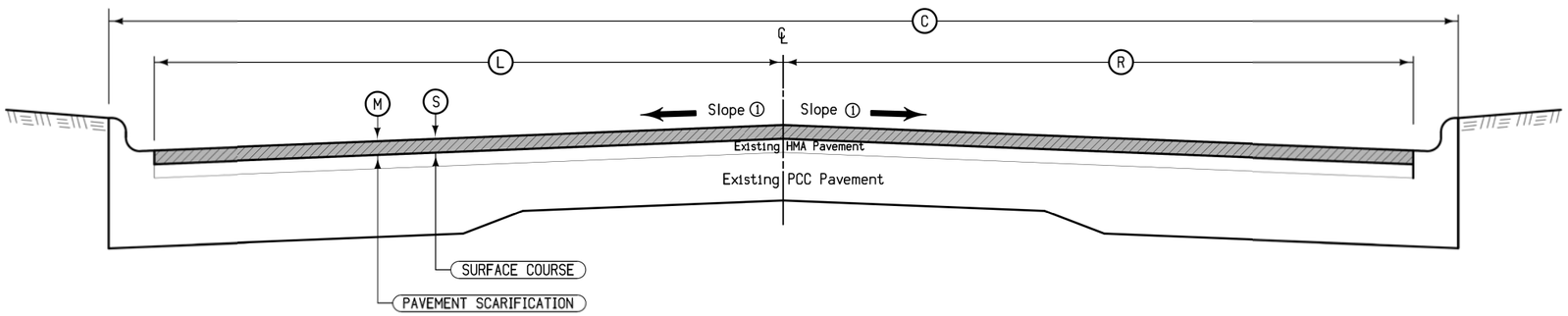
2602-C MODIFIED

Notes:

① Finished slope shall match existing pavement.

② Tack Coat estimated for 1 applications. Not a bid Item.

③ Quantities based on average width.



DESIGN RATES	
ITEM	RATE
Surface Course	155 lbs./cu. ft.
Intermediate Course	150 lbs./cu. ft.
Tack Coat	0.05 gal./sq. yds.

TABLE OF DESIGN QUANTITIES Per Station

Location			(S)	(M)	(C)	(L)	(R)	Tack Coat ④	Asphalt Binder	Hot Mix Asphalt (Tons)	Pavement Scarification	Remarks
Road ID	Station to Station		Inches	Inches	Feet	Feet	Feet	Gallons	Tons	Surface	Tons	
Iowa 21	1093+60.00	1115+54.62	2.0	2.0	45.0	21.0	21.0	23.33	3.26	54.25	50.75	End of NB taper to end of HMA pavement
Iowa 21	1540+66.00	1544+95.73	2.0	2.0	24.0 - 42.0	12.0 - 21.0	12.0 - 21.0	18.33	2.56	42.63	39.88	③ E.O.P. to P.T.
Iowa 21	1545+27.90	1561+00.00	2.0	2.0	45.0	21.0	21.0	23.33	3.26	54.25	50.75	P.T. to end of HMA pavement

FOR REFERENCE ONLY
NOT FOR CONSTRUCTION

FILE NO.	ENGLISH	DESIGN TEAM HARLE/STANLEY	BENTON COUNTY	PROJECT NUMBER HSIPX-021-4(029)--3L-06	SHEET NUMBER B.2	

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FILE NO.	ENGLISH	DESIGN TEAM Kjormoe/Holub	BENTON COUNTY	PROJECT NUMBER MP-021-6(705)55--76-06	SHEET NUMBER U.2	

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