A d d e n d u m

Iowa Department of Transportation
Office of Contracts

Date of Letting: December 18, 2012
Date of Addendum: November 30, 2012

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
012	78-0804-513	Bridge Rehabilitation	Pottawattamie	MBIN-080-4(513)--0M-78	18dec012.a01

Notice: Only the bid proposal holders receive this addendum and responsibility for notifying any potential subcontractors or suppliers remains with the proposal holder.

Make the following changes to the PROPOSAL SCHEDULE OF PRICES:

Change Proposal Line No. 0070 2102-0425070, SPECIAL BACKFILL:
From: 700.400 TON
To: 635.200 TON

Change Proposal Line No. 0090 2122-5500080, PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 8 IN.:
From: 2,062.600 SY
To: 1,862.600 SY

Change Proposal Line No. 0100 2123-7450000, SHOULDER CONSTRUCTION, EARTH:
From: 14.500 STA
To: 13.800 STA

Change Proposal Line No. 0180 2527-9263109, PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED:
From: 90.960 STA
To: 131.880 STA

Change Proposal Line No. 0210 2527-9263180, PAVEMENT MARKINGS REMOVED:
From: 90.960 STA
To: 115.660 STA

Change Proposal Line No. 0250 2548-0000100, MILLED SHOULDER RUMBLE STRIPS, HMA SURFACE:
From: 12.000 STA
To: 16.400 STA

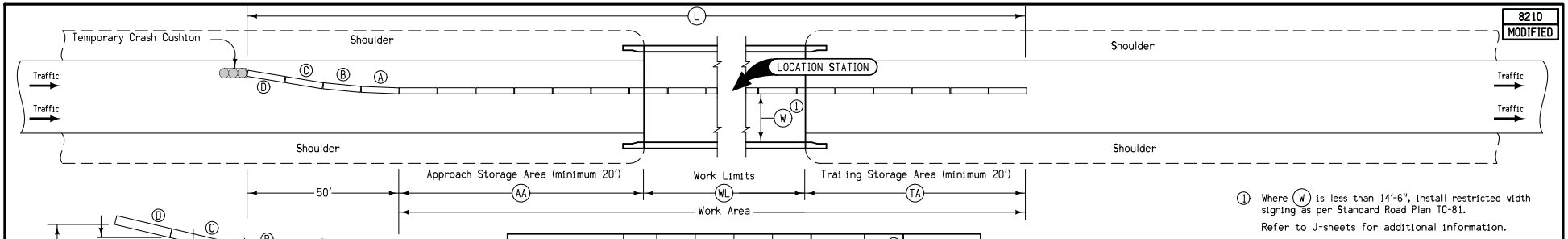
Change Proposal Line No. 0260 2548-0000110, ASPHALT EMULSION FOR FOG SEAL (SHOULDER RUMBLE STRIPS):
From: 13.000 GAL
To: 17.700 GAL

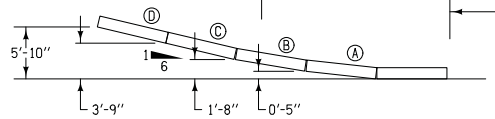
If the above changes are not made they will be made as shown here.

Make the following change to the Plans:

Delete Plan Sheets:	B.1, C.1, C.2, C.3, C.4, C.5, J.1, and J.2.
Replace with the attached Plan Sheets:	B.1, C.1, C.2, C.3, C.4, C.5, J.1, and J.2.

8210
MODIFIED





BARRIER OFFSETS FOR FLARE SECTIONS

Station	Side	AA	WL	TA	L	Anchored	W (1)	Remarks
		Feet	Feet	Feet	Feet	X	Ft-Inches	
1386+26.00	RT	80	180	90	528		18.5'	* Stage II
1386+26.00	LT	80	180	90	528		14.5'	Stage III

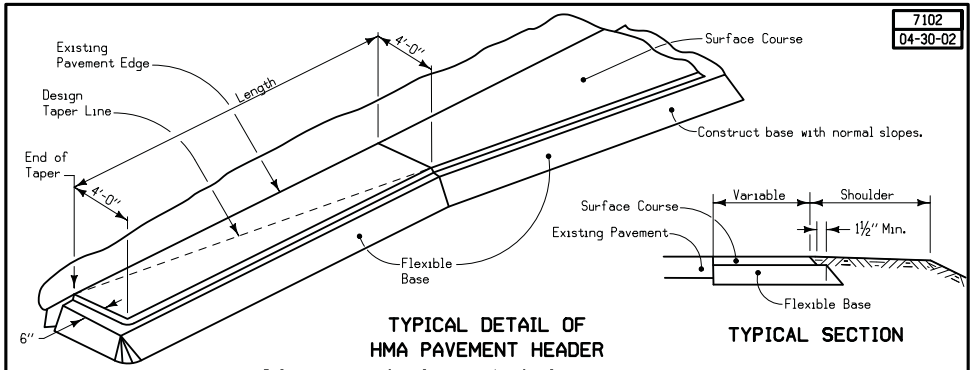
* The traffic lane in Stage II may not be greater than 14.5 ft. in width.

(1) Where (W) is less than 14'-6", install restricted width signing as per Standard Road Plan TC-81.

Refer to J-sheets for additional information.

TEMPORARY CONCRETE BARRIER LAYOUT for One-Way Traffic

7102
04-30-02

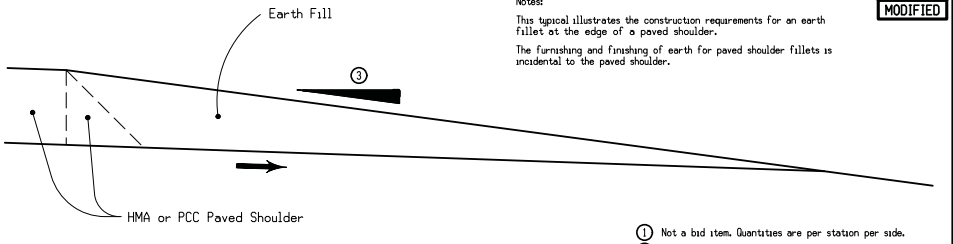


TYPICAL DETAIL OF HMA PAVEMENT HEADER

TYPICAL SECTION

Refer to project plans for exact details of pavement requirements.

7146
MODIFIED



Notes:

This typical illustrates the construction requirements for an earth fillet at the edge of a paved shoulder.

The furnishing and finishing of earth for paved shoulder fillets is incidental to the paved shoulder.

(1) Not a bid item. Quantities are per station per side.
(2) Match slope of under side of shoulder pavement.
(3) Match existing foreslope beyond the 10:1 foreslope at the guardrail blister.

LOCATION				QUANTITIES (1)	
ROAD IDENTIFICATION	STATION TO STATION		SIDE	EARTH FILL	
				PCC Cu. Yds.	HMA Cu. Yds.
WB I-80	1381+80.0	1383+34.5	LT		25.22
"	1387+15.5	1390+00.0	RT		25.22
"	1381+80.0	1383+32.2	RT		25.22
"	1387+35.5	1390+00.0	LT		25.22

EARTH FOR PAVED SHOULDER FILLET

Refer to J-sheets for additional information.

Design No. 1812
File No. 30679

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock\Drake	POTTAWATTAMIE COUNTY	PROJECT NUMBER MBIN-080-4(513)35--0M-78	SHEET NUMBER B.1	REVISED 11-29-2012

8:13:37 AM 11/30/2012 drake W:\Projects\7808003012\Design\78080513b01.sht

100-1D
10-18-05

PROJECT DESCRIPTION

This project involves bridge repair of the WB 179'x39'-0" PPCB I-80 bridge. This includes removal of the existing backwall, diaphragm, and a portion of the deck, replacement with semi integral abutments, replacement of 20' of both bridge approaches, and updating the guardrail to current standards.

100-0A
10-28-97

ESTIMATED ROADWAY QUANTITIES
(1 DIVISION PROJECT)

Item No.	Item Code	Item	Unit	Total	As Built Qty.
1	2102-0425070	SPECIAL BACKFILL	TON	635.2	
2	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	653.0	
3	2122-5500080	PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 8 IN.	SY	1,862.6	
4	2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA	13.80	
5	2301-0690200	BRIDGE APPROACH, RK-20	SY	188.4	
6	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL	LF	429.0	
7	2505-4008300	STEEL BEAM GUARDRAIL	LF	212.5	
8	2505-4008400	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION	EACH	2	
9	2505-4021010	STEEL BEAM GUARDRAIL END ANCHOR, BOLTED	EACH	2	
10	2505-4021700	STEEL BEAM GUARDRAIL END TERMINAL	EACH	2	
11	2510-6745850	REMOVAL OF PAVEMENT	SY	573.2	
12	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	131.88	
13	2527-9263131	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	STA	18.20	
14	2527-9263152	PRE-CUT SYMBOLS AND LEGENDS, REGULAR MARKING TAPE	EACH	8	
15	2527-9263180	PAVEMENT MARKINGS REMOVED	STA	115.66	
16	2527-9263190	SYMBOLS AND LEGENDS REMOVED	EACH	8	
17	2528-8400048	TEMPORARY BARRIER RAIL, CONCRETE	LF	1,056.0	
18	2528-8445110	TRAFFIC CONTROL	LS	1.00	
19	2548-0000100	MILLED SHOULDER RUMBLE STRIPS, HMA SURFACE	STA	16.4	
20	2548-0000110	ASPHALT EMULSION FOR FOG SEAL (SHOULDER RUMBLE STRIPS)	GAL	17.7	
21	2551-0000110	TEMP CRASH CUSHION	EACH	2	
22	2602-0000020	SILT FENCE	LF	545.6	
23	2602-0000030	SILT FENCE FOR DITCH CHECKS	LF	150.0	
24	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	268.3	
25	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	53.7	
26	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	1	
27	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	1	

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
1	**2102-0425070**	**SPECIAL BACKFILL**
		Includes 635.2 tons used for reconstructing the shoulders on either end of the bridge. Refer to Typical 7156 and Tab. 112-9 in C-sheets for location and other information. Existing HMA and PCC from Pavement removal may be used on the project as special backfill.
-	-	-
2	**2102-2710070**	**EXCAVATION, CLASS 10, ROADWAY AND BORROW**
		Refer to Tab. 107-23 on C-Sheets. The Contractor shall furninsh all borrow material. Overhaul will not be measured or paid for, but shall be considered incidental to roadway excavation on this project.
-	-	-
3	**2122-5500080**	**PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 8 IN.**
		Refer to Tab. 112-9 in C-sheets for location and other information.
-	-	-
4	**2123-7450000**	**SHOULDER CONSTRUCTION, EARTH**
		Refer to Tab. 112-9 in C-sheets for location and other information.
-	-	-
5	**2301-0690200**	**BRIDGE APPROACH, RK-20**
		Refer to Tab. 112-6 in C-sheets for location and other information.Section 2301.03.H.b.4 shall apply when finishing and texturing the bridge approach.
-	-	-
6	**2505-4008120**	**REMOVAL OF STEEL BEAM GUARDRAIL**
		Refer to Tab. 110-7A in C-sheets for location and other information.
-	-	-
7	**2505-4008300**	**STEEL BEAM GUARDRAIL**

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
8	**2505-4008400**	**STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION**
9	**2505-4021010**	**STEEL BEAM GUARDRAIL END ANCHOR, BOLTED**
10	**2505-4021700**	**STEEL BEAM GUARDRAIL END TERMINAL**
		Refer to Tab. 108-8A in C-sheets for location and other information.
-	-	-
11	**2510-6745850**	**REMOVAL OF PAVEMENT**
		Refer to Tabs.110-1 in C-Sheets. Existing HMA and PCC from Pavement removal may be used on the project as special backfill.
-	-	-
12	**2527-9263109**	**PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED**
		- -
-	-	-
13	**2527-9263131**	**WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS**
		- -
-	-	-
14	**2527-9263152**	**PRE-CUT SYMBOLS AND LEGENDS, REGULAR MARKING TAPE**
		- -
-	-	-
15	**2527-9263180**	**PAVEMENT MARKINGS REMOVED**
		- -
-	-	-
16	**2527-9263190**	**SYMBOLS AND LEGENDS REMOVED**
		- -
-	-	-
17	**2528-8400048**	**TEMPORARY BARRIER RAIL, CONCRETE**
		Refer to J-Sheets and Tab. 108-33 in C-Sheets.
-	-	-
18	**2528-8445110**	**TRAFFIC CONTROL**
		Refer to J-Sheets for staging and traffic control notes.
-	-	-
19	**2548-0000100**	**MILLED SHOULDER RUMBLE STRIPS, HMA SURFACE**
		- -
-	-	-
20	**2548-0000110**	**ASPHALT EMULSION FOR FOG SEAL (SHOULDER RUMBLE STRIPS)**
		Calculated at 18" width.
-	-	-
21	**2551-0000110**	**TEMP CRASH CUSHION**
		Refer to Tab. 108-30 in C-sheets for location and other information.
-	-	-
22	**2602-0000020**	**SILT FENCE**
		Refer to Tab. 100-17. The tabulation includes estimated locations for placement of "Silt Fence" to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 25% additional quantity for field adjustments and replacements.
-	-	-
23	**2602-0000030**	**SILT FENCE FOR DITCH CHECKS**
		Refer to Tab 100-18. The tabulation includes estimated locations for placement of "Silt Fence for Ditch Checks" to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 50% additional quantity for field adjustments and replacements.
-	-	-
24	**2602-0000071**	**REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS**
		This item is included for silt fence and silt fence for ditch check removal required for staging reasons, removal to allow for replacement (replacement to be paid separately), or for areas that have achieved 70% permanent growth.
-	-	-
25	**2602-0000101**	**MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK**
		This item is included for clean-out and repair of the silt fence and silt fence for ditch checks during the grading project.
-	-	-
26	**2602-0010010**	**MOBILIZATIONS, EROSION CONTROL**
		- -
-	-	-
27	**2602-0010020**	**MOBILIZATIONS, EMERGENCY EROSION CONTROL**
		- -
-	-	-

Design No.	1812
File No.	30679

105-4
10-18-11

STANDARD ROAD PLANS

The following Standard Road Plans apply to construction work on this project.

Number	Date	Title
BA-200	10-18-11	Steel Beam Guardrail Components
BA-201	10-19-10	Steel Beam Guardrail Barrier Transition Section
BA-202	10-18-11	Steel Beam Guardrail Bolted End Anchor
BA-203	10-18-11	Steel Beam Guardrail W-Beam End Anchor
BA-205	10-18-11	Steel Beam Guardrail End Terminal
BA-250	10-18-11	Steel Beam Guardrail Installation at Concrete Barrier or Bridge End Post
BA-401	04-20-10	Temporary Barrier Rail (Precast Concrete)
BA-500	04-20-10	Temporary Crash Cushions Sand Barrel
EC-201	04-20-10	Silt Fence
EW-301	04-19-11	Guardrail Grading
PM-110	04-19-11	Line Types
PM-111	10-16-12	Symbols and Legends
PV-12	04-17-12	Milled Shoulder Rumble Strips
PV-101	04-17-12	Joints
RK-20	10-16-12	Double Reinforced 12" Approach
RM-48	10-16-12	Temporary Floodlighting
SI-881	10-16-12	Special Signs for Workzones
TC-1	10-18-11	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-402	10-16-12	Shoulder Closure (Multi-Lane)
TC-418	10-16-12	Lane Closure on Divided Highway
TC-421	10-16-12	Lane Closure with TBR
TC-432	10-16-12	Shoulder Rumble Strip Operations
TC-433	10-16-12	Pavement Marking Operations

110-1
10-16-12

REMOVAL OF PAVEMENT

Refer to Tabulation 102-5

* Not a Bid Item

Begin Station	End Station	Pavement Type	Area SY	Saw Cut* LF	Remarks
WB I-80					
1385+16.50	1385+36.50	CRC	86.7	39.0	W. Approach, WBL
1387+15.50	1387+35.50	CRC	86.7	39.0	E. Approach, WBL
Shoulder Rev.					
1381+80.00	1385+16.30	PCC	373.7	168.2	WBL, Outside Shoulder, SW Quadrant
1387+35.50	1390+00.00	PCC	293.9	79.4	WBL, Outside Shoulder, SE Quadrant
1381+80.00	1385+16.30	PCC	224.2	168.2	WBL, Inside Shoulder, NW Quadrant
1387+35.50	1390+00.00	PCC	176.3	79.4	WBL, Inside Shoulder, NE Quadrant
		Total		573.2	

108-33
04-20-10

TEMPORARY BARRIER RAIL

Refer to BA-400 and BA-401

No.	Station to Station		Length LF	(Select One) Concrete BA-401	Steel BA-400	Remarks
1	1379+96.00	1388+02.60	806.6	X		
2	1379+96.00	1388+02.60	806.6	X		
	Total		1613.2			

232-3A
10-16-12

EROSION CONTROL (RURAL SEEDING)

Following the completion of work in a disturbed area, place seed, fertilizer, and mulch on the disturbed area lying 10 feet adjacent to shoulder as follows:

SEEDING:
3 lbs. of Tall Fescue (Fawn) per 1000 sq. ft.

FERTILIZER:
17 lbs. of 13-13-13 (or equivalent) commercial fertilizer per 1000 sq. ft.

MULCH:
70 lbs. of dry cereal straw per 1000 sq. ft. For areas disturbed, but not seeded by September 30th, scarify to a 3 inch depth and mulch. Consolidate all mulch into the soil with a mulch stabilizer.

Use Certified Noxious Weed Seed Free Mulch as determined by the Iowa Crop Improvement Association or adjacent state's Crop Improvement Association.

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

232-3C
10-16-12

EROSION CONTROL (NATIVE GRASS SEEDING)

Following the completion of work in a disturbed area, place seed, fertilizer, and mulch on the disturbed area lying 10 feet or more beyond the shoulder as follows:

SEEDING MIXTURE: Seeding Rate: 2 lbs. per 1000 sq. ft.

Canada wild rye (PLS)	10.0%
Indiangrass (PLS)	7.5%
Big bluestem (PLS)	7.5%
Switchgrass (PLS)	2.5%
Little bluestem (PLS)	2.5%
Sideoats grama (PLS)	2.5%
Grain rye	17.5%
Fescue, Tall	30.0%
Ryegrass, Perennial	20.0%

FERTILIZER:
5 lbs. of 13-13-13 (or equivalent) commercial fertilizer per 1000 sq. ft.

MULCH:
70 lbs. of dry cereal straw per 1000 sq. ft. For areas disturbed, but not seeded by September 30th, scarify to a 3 inch depth and mulch. Consolidate all mulch into the soil with a mulch stabilizer.

Use Certified Noxious Weed Seed Free Mulch as determined by the Iowa Crop Improvement Association or adjacent state's Crop Improvement Association.

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

262-6
10-18-05

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.

Design No. 1812
File No. 30679

108-30
10-16-12

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. Refer to BA-500

No.	Direction of Traffic (1)	Location Station	Side	Obstacle Width	Crash Cushion (Select One)*					Sand Barrel Details (2)					Earthwork*		Spare Parts Kit (Select One)*		Obstacle Description	Remarks
					Temporary	Temporary Redirective	Temporary Severe Use	Permanent	Permanent Severe Use	V Length	W Length	X Length	Y Length	Z Length	Excavation Class 10	Embankment in Place	Permanent	Permanent Severe Use		
				FT						FT	FT	FT	FT	FT	CY	CY	EACH	EACH		
1	WB	1379+96.00	LT	179.00	X														PPCB Bridge	
2	WB	1379+96.00	RT	179.00	X														PPCB Bridge	

110-7A
04-17-12

REMOVAL OF STEEL BEAM GUARDRAIL

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

Location					
No.	Direction of Traffic (1)	Station to Station		Side	Removal of Guardrail (2)
					LF
1	WB	1382+72.50	1385+36.50	RT	264.0
2	WB	1383+77.30	1385+42.30	LT	165.0
		Total			429.0

112-9
04-17-12

SHOULDERS

(1) Lane(s) to which the shoulder is adjacent.
(2) Bid Item
(3) Applies only for Paved Shoulders constructed on project with existing granular shoulders.
(4) Does not include shrink.

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

Location								Quantities															
Road Identification	Direction Of Traffic (1)	Station to Station		Side	P Width	G Width	L Length	Class 13 (3) Excavation Widening	HMA Base Widening (3)		Hot Mix Asphalt		Paved Shoulder	Reinforced Paved Shoulder	Special Backfill		Modified Subbase	Granular Shoulder		Earth Shoulder Construction		Remarks
					FT	FT	FT	CY (2)	TON (2)	TON/STA	TON	TON/STA	SY (2)	SY (2)	TON (2)	TON/STA	CY (2)	TON (2)	TON/STA	STA (2)	CY (4)		
I-80	WB	1381+80.00	1385+16.30	RT	10.0	11.0	336.3				156.9	46.7	373.7		129.5	38.5				3.4	50.9	Stage I, SW. Quadrant	
"	"	1387+35.50	1390+00.00	RT	10.0	11.0	264.5				123.4	46.7	293.9		101.8	38.5				2.6	40.0	Stage I, NE. Quadrant	
"	"	1381+80.00	1383+34.50	LT	6.0	7.0	154.5				43.3	28.0	103.0		37.9	24.5				1.5	23.4	Stage II, NW. Quadrant	
"	"	1383+34.50	1383+66.80	LT	45.4	46.4	32.3				68.4	211.8	162.9		52.4	162.3				0.3	4.9	Stage II, NW. Quadrant	
"	"	1383+66.80	1384+04.40	LT	43.5	44.5	37.6				76.3	203.0	181.7		58.6	155.8				0.4	5.7	Stage II, NW. Quadrant	
"	"	1384+04.40	1385+03.80	LT	30.4	31.4	99.4				141.1	141.9	335.9		109.3	109.9				1.0	15.0	Stage II, NW. Quadrant	
"	"	1385+03.80	1385+16.30	LT	17.3	18.3	12.5				10.1	80.8	24.0		8.0	64.1				0.1	1.9	Stage II, NW. Quadrant	
"	"	1387+35.50	1390+00.00	LT	10.0	11.0	264.5				123.4	46.7	293.9		101.8	38.5				2.6	40.0	Stage II, NE. Quadrant	
"	"	1383+32.20	1383+35.00	RT	8.4	9.4	2.8				1.1	39.3	2.6		0.9	33.0				0.0	0.4	Stage III, SE. Quadrant	
"	"	1383+35.00	1383+64.60	RT	7.6	8.6	29.6				10.5	35.6	25.1		8.9	30.2				0.3	4.5	Stage III, SE. Quadrant	
"	"	1383+64.60	1384+02.10	RT	6.8	7.8	37.5				11.9	31.8	28.4		10.3	27.3				0.4	5.7	Stage III, SE. Quadrant	
"	"	1384+02.10	1384+64.70	RT	4.2	5.2	62.6				12.2	19.5	29.1		11.3	18.1				0.6	9.5	Stage III, SE. Quadrant	
"	"	1384+64.70	1385+14.50	RT	1.5	2.5	49.8				3.6	7.2	8.5		4.4	8.9				0.5	7.5	Stage III, SE. Quadrant	
Total													1862.6		635.2					13.8			

112-6
10-21-08

BRIDGE APPROACH SECTION

Refer to the RK-Series.

* Not a bid item

Location		Approach Pavement					Fixed or Movable Abutment	Subdrain							Remarks
Bridge Station	End	T Thickness	Pay Length	Non-Reinf. Pavement Area	Single-Reinf. Pavement Area	Double-Reinf. Pavement Area		* Perforated Subdrain 4"	* Subdrain Outlet		* Porous Backfill	Class 'A'* Crushed Stone Backfill	* Modified Subbase	* Polymer Grid	
		Inches	FT	SY	SY	SY	F or M	LF	STA	Side	CY	CY	TON	SY	
1386+26.00	W	12.0	20.0	0.0	0.0	94.6	M	68.0	1366+66.50	RT	11.0		101.200	104.9	WB Bridge
1386+26.00	E	12.0	20.9	0.0	0.0	93.8	M	68.0	1369+75.50	RT	11.0		100.300	104.0	WB Bridge
Total						188.4									

Design No. 1812
File No. 30679

ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock/Drake	Pott. COUNTY	PROJECT NUMBER MBIN-080-4(513)35--0M-78	SHEET NUMBER C.3	REVISED 11-29-12

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107-23
10-18-11

GRADING FOR GUARDRAIL INSTALLATIONS

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

Refer to EW-301

Location					Dimensions (Feet)									Earthwork		
No.	(1) Direction of Traffic	Station	Side	Foreslope at Guardrail	X1	Y1	X2	Y2	X3	Y3	X4	Y4	Z	Excavation Class 10	Embankment In Place	Remarks
														CY	CY	
1	WB	1385+31.40	LT	0.1	27.3	5.2	77.0	10.2	139.7	10.2	189.5	12.2	39.0	468.0		
2	WB	1385+40.30	RT	0.1	27.3	5.2	127.3	15.3	0.0	0.0	177.8	17.3	39.0	185.0		
			Total											653.0		

100-18
04-20-10

TABULATION OF SILT FENCES FOR DITCH CHECKS

Refer to EC-201

Location Station	Side	Length LF	Remarks
1385+16.30	LT	40.0	
1385+16.30	RT	60.0	

100-17
04-20-10

TABULATION OF SILT FENCES

Refer to EC-201

Location			Length	Remarks
Begin Station	End Station	Side	LF	
1381+00.00	1385+36.50	RT	436.5	

108-8A
10-19-10

STEEL BEAM GUARDRAIL AT CONCRETE BARRIER OR BRIDGE END POST

Refer to BA-200, BA-201, BA-202, BA-205, BA-250, SI-172, SI-173 and SI-211.

(1) See Standards for list of materials.

Location Station			Layout Lengths				Delineators and Object Markers					Bid Items (1)						Remarks
			VT1	VF	VT2	ET	Type	Delineator Type 1	Object Marker Type 2	Object Marker Type 3		End Anchor Bolted	Barrier Transition Section	Steel Beam Guardrail	End Terminal Standard	End Terminal Flared for Cable Connection	Adapter	
						Terminal		White										
No.	Station	Offset	LF	LF	LF	LF		No.	No.	OM-3L No.	OM-3R No.	BA-202 Type	BA-201 No.	BA-200 LF	BA-205 No.	BA-206 No.	BA-210 No.	
1	1385+31.40	19	28.125	100.00	0.00	50.0	3				1	1	1	100.0	1			
2	1385+40.30	59	28.125	50.00	62.50	50.0	3			1		1	1	112.5	1			

112-10
04-19-11

MILLED RUMBLE STRIPS

See PV-12 and PV-13.

* Calculated at 18" width for Shoulder.

Location						Fog Seal* (Milled Rumble Strip)	Effective Shoulder Width			Remarks
Road Identification	Station to Station		Length PCC	Length HMA	Type (Centerline, Rt or Lt Shoulder	Shoulder	PCC Paved	HMA Paved	Granular\ Earth	
			STA	STA		GAL	FT	FT	FT	
I-80	1381+80.00	1390+00.00		8.20	Left Shoulder	8.9		6.0		
I-80	1381+80.00	1390+00.00		8.20	Right Shoulder	8.9		10.0		

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ENGLISH	IOWA DOT	DESIGN TEAM Schoenrock/Drake	Pott. COUNTY	PROJECT NUMBER MBIN-080-4(513)35--0M-78	SHEET NUMBER C.4	REVISED 11-29-12

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PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.

BCY4: Broken Centerline (Yellow) @ 0.25 DCY4: Double Centerline (Yellow) @ 2.00 NPY4: No Passing Zone Line (Yellow) @ 1.25 BLW4: Broken Lane Line (White) @ 0.25 ELW4: Edge Line Right (White) @ 1.00
ELY4: Edge Line Left (Yellow) @ 1.00

Location								Length by Line Type (Unfactored)															Remarks
Road ID	Station to Station		Dir. of Travel	Marking Type	Side L	Side C	Side R	BCY4* STA	DCY4 STA	NPY4** STA	BLW4 STA	ELW4 STA	ELY4 STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
Removable Pa																							
I-80	1359+88.00	1380+98.00	WB	Removal of Paint		X					21.10												Stage 2
"	1359+88.00	1380+98.00	WB	Removal of Paint	X								21.10										Stage 3
"	1359+88.00	1380+98.00	WB	Removal of Paint			X					21.10											Stage 4
"	1358+98.00	1376+02.60	WB	Removal of Paint			X					17.05											Stage 2
"	1358+98.00	1376+02.60	WB	Removal of Paint	X								17.05										Stage 3
"	1358+98.00	1376+02.60	WB	Removal of Paint			X					17.05											Stage 3
"	1358+98.00	1376+02.60	WB	Removal of Paint	X								17.05										Stage 4
Removable Ta																							
I-80	1364+88.00	1373+98.00	WB	Wet Retroreflective Removable Tape	X								9.10										Stage 2
"	1364+88.00	1373+98.00	WB	Wet Retroreflective Removable Tape			X					9.10											Stage 3
Remove Tape																							
I-80	1364+88.00	1373+98.00	WB	Removal of Removable Tape	X								9.10										Stage 3
"	1364+88.00	1373+98.00	WB	Removal of Removable Tape			X					9.10											Stage 4
Pavement Mar																							
I-80	1359+88.00	1380+98.00	WB	Waterborne/Solvent Paint	X								21.10										Stage 2
"	1359+88.00	1380+98.00	WB	Waterborne/Solvent Paint			X					21.10											Stage 3
"	1359+88.00	1380+98.00	WB	Waterborne/Solvent Paint			X					21.10											Stage 2
"	1359+88.00	1380+98.00	WB	Waterborne/Solvent Paint	X								21.10										Stage 3
"	1359+88.00	1380+98.00	WB	Waterborne/Solvent Paint			X					21.10											Stage 4
"	1359+88.00	1380+98.00	WB	Waterborne/Solvent Paint	X								21.10										Stage 4
"	1359+88.00	1380+98.00	WB	Waterborne/Solvent Paint		X					21.10												Stage 4
				Factored Total: Waterborne/Solvent Paint				-	-	-	5.28	63.30	63.30	-	-	-	-	-	-	-	-	-	
				Factored Total: Wet Retroreflective Removable Tape				-	-	-	-	9.10	9.10	-	-	-	-	-	-	-	-	-	
				Factored Total: Removal of Paint				-	-	-	5.28	55.19	55.19	-	-	-	-	-	-	-	-	-	
				Factored Total: Removal of Removable Tape				-	-	-	-	9.10	9.10	-	-	-	-	-	-	-	-	-	
				Bid Quantity: Painted Pavement Markings, Waterborne or Solvent-Based							131.88												
				Bid Quantity: Wet Retroreflective Removable Tape Markings							18.20												
				Bid Quantity: Pavement Markings Removed							115.66												
				Incidental Removal of Removable Tape							18.20												

PAVEMENT MARKING SYMBOLS AND LEGENDS

Refer to PM-111

Road Identification	Location Station	Location Side	STAW	RTAW	LTAW	CSRW	CSLW	CSTW	CRLW	FERW	LLRW	RLRW	RRCW	BLSW	WCSW	WPSB	SCLW	XNGW	STPW	AHDW	ONLW	BIKW	LANW	XITW	Remarks
I-80	1349+88.00	RT									1														Stage 2
"	1350+88.00	RT									1														Stage 2
"	1359+88.00	RT									1														Stage 2
"	1360+88.00	RT									1														Stage 2
"	1349+88.00	LT										1													Stage 3
"	1350+88.00	LT										1													Stage 3
"	1359+88.00	LT										1													Stage 3
"	1360+88.00	LT										1													Stage 3

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102-15
08-01-08

TABULATION OF SPECIAL EVENTS

Event	Location	Date
To be discussed at the Pre-Construction meeting.		

108-23A
08-01-08

TRAFFIC CONTROL PLAN

Traffic will be maintained on WB I-80 at all times. Construction will be staged so as to maintain traffic.

111-01
04-17-12

COORDINATED OPERATIONS

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

Project	Type of Work
IMN-080-1(346)0--0E-78	Patching
MB-192-4(500)1--77-78	Deck Joint Repair

108-26A
08-01-08

STAGING NOTES

It is not the intent of the sequence of construction to confine the Contractor's activities to the area of the suggested stage alone. It is understood that some of the various steps, though listed in a numerical order, may occur simultaneously. Therefor, the Contractor may conduct several operations concurrently on the project, provided that the existing traffic is maintained and that these operations do not conflict with the staging indicated here in.

It is recognized that as various activities related to construction progress, certain situations may arise which will preclude adhering to the original construction sequence or, which in the opinion of the Contractor, would readily adhere itself to a more efficient staging operation. Should this occur, and the Contractor desire to deviate from the oridinal plan, they shall submit an alternative plan for approval by the Engineer.

Stage I.
Traffic:
Shift the outside WB lane of traffic into the inside WB lane.

Construction:
Remove and reconstruct the existing outside shoulder pavement on either end of the Silver Creek bridge.

Stage II.
Traffic:
Shift the inside WB lane of traffic onto the outside WB lane and new shoulder.

Construction:
Remove guardrail from inside WB bridge end post.
Remove the existing inside shoulder pavement from both ends of the Silver Creek bridge.
Remove the double reinforced approach sections from both ends of the inside lane of the Silver Creek bridge.
Grade new guardrail blister.
Reconstruct the double reinforced approach section on both ends of the inside lane of the Silver Creek bridge.
Construct new guardrail.

Stage III.
Traffic:
Shift the outside WB lane of traffic onto the inside WB lane and new shoulder.

Construction:
Remove guardrail from outside WB bridge end post.
Remove the double reinforced approach sections from both ends of the outside lane of the Silver Creek bridge.
Grade new guardrail blister.
Reconstruct the double reinforced approach sections on both ends of the outside lane of the Silver Creek bridge.
Pave remaining portion of WB outside shoulder and construct new guardrail.

Stage IV.
Traffic:
Reopen all lanes to traffic.

Construction:
Paint centerline and clean up site.

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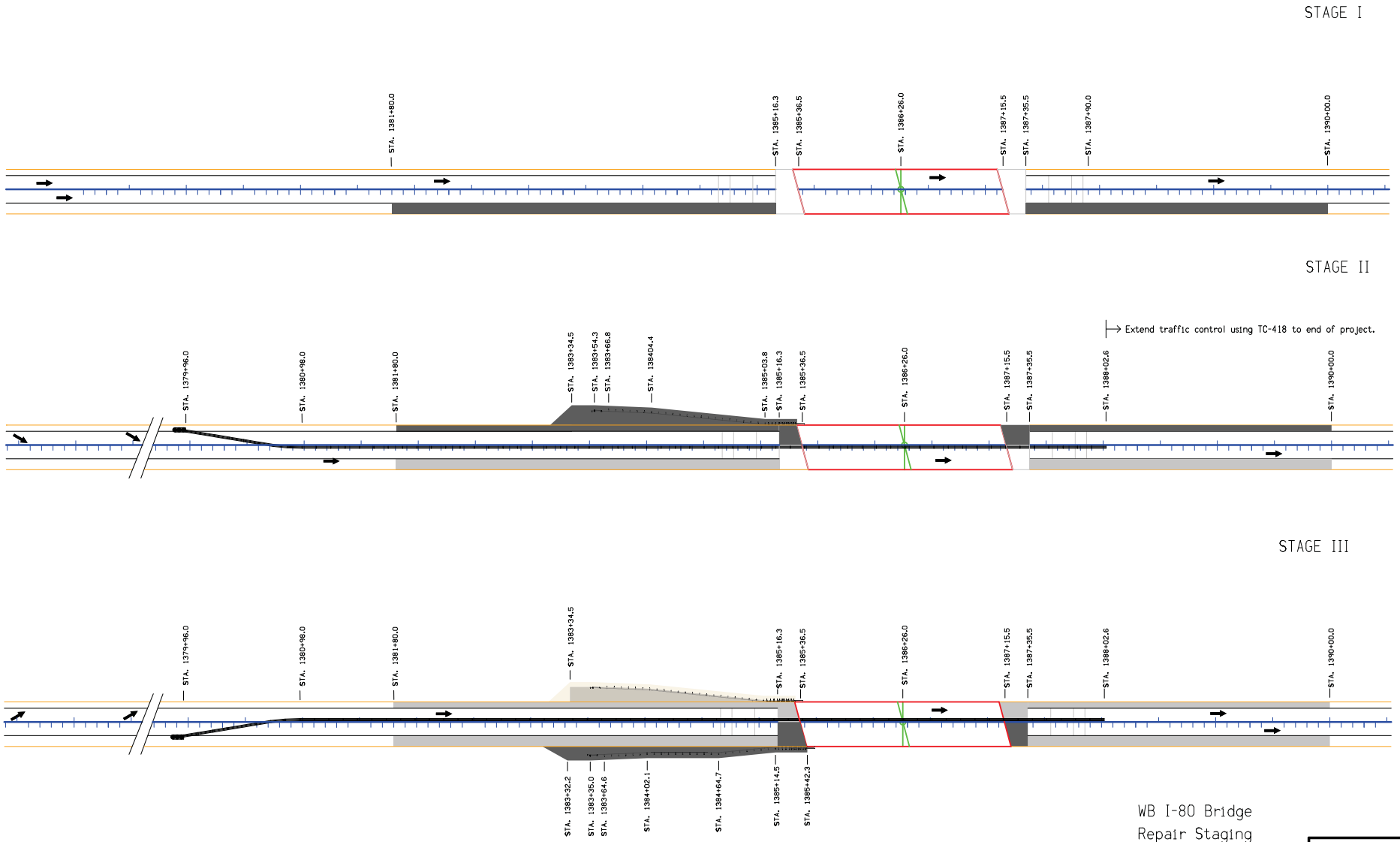
STAGE I
STA. 1381+80.0
STA. 1385+16.3
STA. 1385+36.5
STA. 1386+26.0
STA. 1387+15.5
STA. 1387+35.5
STA. 1387+90.0
STA. 1390+00.0
STAGE II
Extend traffic control using TC-418 to end of project.
STA. 1379+96.0
STA. 1380+98.0
STA. 1381+80.0
STA. 1383+34.5
STA. 1383+54.3
STA. 1383+66.8
STA. 1384+04.4
STA. 1385+03.8
STA. 1385+16.3
STA. 1385+36.5
STA. 1386+26.0
STA. 1387+15.5
STA. 1387+35.5
STA. 1388+02.6
STA. 1390+00.0
STAGE III
STA. 1379+96.0
STA. 1380+98.0
STA. 1381+80.0
STA. 1383+34.5
STA. 1385+16.3
STA. 1385+36.5
STA. 1386+26.0
STA. 1387+15.5
STA. 1387+35.5
STA. 1388+02.6
STA. 1390+00.0
STA. 1383+32.2
STA. 1383+35.0
STA. 1383+64.6
STA. 1384+02.1
STA. 1384+64.7
STA. 1385+14.5
STA. 1385+42.3
WB I-80 Bridge
Repair Staging
UAC Existing
Construct
Design No. 1812
File No. 30679
ENGLISH
IOWA DOT
DESIGN TEAM Schoenrock\Drake
POTTAWATTAMIE COUNTY
PROJECT NUMBER MBIN-080-4(513)35--0M-78
SHEET NUMBER J.2
REVISED 11-29-2012
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