

# A d d e n d u m

Iowa Department of Transportation  
Office of Contracts

Date of Letting: September 18, 2012  
Date of Addendum: August 30, 2012

<b>B.O.</b>	<b>Proposal ID</b>	<b>Proposal Work Type</b>	<b>County</b>	<b>Project Number</b>	<b>Addendum</b>
101	07-3807-117	PCC PAVEMENT - GRADE & REPLACE	BLACK HAWK	IMX-380-7(117)64--02-07	18SEP101.A02

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

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Make the following changes to plan sheet C.6:

Replace Tabulation 110-7A with attached Tabulation 110-7A  
Replace Tabulation 110-7B with attached Tabulation 110-7B

Make the following change to plan sheet C.10 and C.11:

Replace Tabulation 112-9 with attached Tabulation 112-9

Make the following changes to plan sheet C.12:

Replace Tabulation 108-8A with attached Tabulation 108-8A  
Replace Tabulation 108-8C with attached Tabulation 108-8C

Make the following change to plan sheet C.13:

Replace Tabulation 108-9A with attached Tabulation 108-9A

### 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
		VF	VT2	ET	Type		Object Marker		Barrier Transition Section No.	Steel Beam Guardrail L.F.	End Anchor Bolted Type	Flared Terminal for Cable Connection No.	Adapter No.			
					Type 1	Type 2	Type 3	Type 3								
					White No.	No.	OM-3L No.	OM-3R No.								
No.	Station	Offset	L.F.	L.F.	L.F.	Terminal L.F.	Type	No.	Type	No.	No.	No.	No.	No.		
1	131+95.92	78.4 Lt	78.125	25.00	75.00	50.0	3	1	C	1	150.0	1		(1)		
2	132+37.00	25.6 Lt	28.125	25.00	162.50	50.0	3	1	C	1	187.5	1		(2)		
3	202+41.04	66.5 Lt	28.125	25.00	125.00	50.0	3	1	C	1	150.0	1		(1)		
4	202+87.27	25.6 Lt	28.125	25.00	162.50	50.0	3	1	C	1	187.5	1		(2)		
5	242+87.38	66.4 Lt	203.125	0.00	0.00	50.0	3	1	C	1	175.0	1		(1)		
6	242+93.08	25.6 Lt	28.125	25.00	175.00	50.0	3	1	C	1	200.0	1		(2)		
7	361+88.04	66.4 Lt	28.125	25.00	125.00	50.0	3	1	A	1	150.0	1				
8	362+02.60	25.6 Lt	28.125	25.00	212.50	50.0	3	1	A	1	237.5	1				
								<b>TOTALS:</b>	4	4	8	1437.5	8			

Notes:  
 (1) New holes will need to be drilled in existing end posts for the new attachment of the Bolted End Anchor.  
 (2) Guardrail items to be furnished from the locations noted in the Removal of Steel Beam Guardrail Tab. 110-7A for reinstallation.



## HIGH TENSION CABLE GUARDRAIL

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

Refer to BA-351.

No.	Direction of Traffic	Station	Side	Location				Dimensions				Bid Items			Remarks					
				Offset	Approach	Obstacle	Trailing	Protection Length	End Anchor	No.										
										D <sub>0</sub>	C <sub>A</sub>	C <sub>0</sub>	C <sub>T</sub>	(C <sub>A</sub> +C <sub>0</sub> +C <sub>T</sub> )		FT	FT			
FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	No.	No.					
1	NB	152+15.5	Med	12.0	230.7	39.0	0.0	269.7	2											
2	NB	152+56.2	Out	10.0	252.4	38.2	0.0	290.7	2											
3	NB	185+75.0	Out	10.0	315.7	609.3	0.0	925.0	2						Meyers Lake					
4	NB	271+87	Med	12.0	231.0	47.0	0.0	278.0	2											
5	NB	272+10.5	Out	10.0	231.0	46.3	0.0	277.3	2											
6	NB	321+97.7	Out	10.0	131.3	43.0	0.0	174.3	2											
7	NB	324+43.0	Med	12.0	231.2	91.3	0.0	322.5	2											
8	NB	372+73	Med	12.0	232.0	50.5	0.0	282.5	2											
9	NB	372+78.1	Out	10.0	243.2	51.1	0.0	294.3	2											
10	NB	3554+72.0	Rt.	12.0	252.0	179.9	0.0	431.9	2						I380 Ramp C					
<b>TOTALS</b>																				<b>20</b>

## REMOVAL OF STEEL BEAM GUARDRAIL

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

No.	① Direction of Traffic	Location		Removal of Guardrail ②
		Station to Station	Side	
1	NB	131+95.9	Out	137.5
2	NB	132+37.0	Med	187.5 (1)
3	NB	202+41.0	Out	62.5
4	NB	202+87.3	Med	187.5 (1)
5	NB	242+87.4	Out	62.5
6	NB	242+93.1	Med	200.0 (1)
7	NB	322+11.9	Out	112.5 (1)
8	NB	361+88.0	Out	62.5
9	NB	362+02.6	Med	243.8
10	NB	388+76.6	Out	75.0
11	NB	403+26.6	Out	75.0
12	NB	540+67.0	Med	87.5
13	NB	540+67.1	Out	87.5
<b>TOTAL:</b>				<b>1581.3</b>
<b>Notes:</b>				
(1) To be salvaged and stockpiled for reinstallation.				

## REMOVAL OF CABLE GUARDRAIL

\* Not a bid item  
① Lane(s) to which the installation is adjacent

No.	① Direction of Traffic	Location		Type (High/Low Tension)	Cable	Post * Footings, Concrete	End Terminal*		Remarks	
		Station to Station	Side				Remove	Remove		No.
1	NB	149+45.8	152+15.5	Med	High Tension	269.7	Yes	2		
2	NB	175+00.0	184+09.1	Out	Low Tension	909.1	Yes	2	Meyers Lake	
3	NB	269+08.9	271+86.9	Med	High Tension	278.0	Yes	2		
4	NB	321+20.6	324+43.0	Med	High Tension	322.5	Yes	2		
5	NB	369+90.5	372+73.0	Med	High Tension	282.5	Yes	2		
<b>TOTALS:</b>						<b>2061.8</b>		<b>10</b>		

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

Road Identification	Traffic Location	Station to Station	Slide	P	G	L	Class 13 Excavation Widening				Reinforced Paved Shoulder				Special Backfill	Modified Subbase	Granular Shoulder		Earth Shoulder Construction		Remarks				
							CY		TON		SY		TON				CY		TON	STA		TON	STA	TON	CY
							①	②	③	④	①	②	③	④			①	②	③	④		①	②	③	④
US 20	EB	554+54.6	588+09.9	M	6.0	355.3									236.9				3.6	78.8	Match Adjacent Rumble Strip Pattern				
US 20	NB	561+35.2	564+90.5	M	6.0										236.9				3.6	78.8	Match Adjacent Rumble Strip Pattern				
I-380	NB	132+68.9	138+76.9	M	6.0	668.0													66.1	2345.2					
I-380	NB	132+28.9	141+73.7	O	6.0	944.8													9.4	335.3					
I-380	NB	141+73.7	162+98.9	O	6.0	2125.3													21.3	579.5					
I-380	NB	162+98.9	169+24.2	O	6.0	635.3													6.4	247.8					
I-380	NB	169+24.2	198+34.2	O	6.0	2899.8													29.0	796.8					
I-380	NB	203+25.3	240+78.6	M	6.0	3753.4													37.5	1332.1					
I-380	NB	202+85.3	214+64.4	O	6.0	1179.2													11.8	321.5					
I-380	NB	214+64.4	240+78.6	O	6.0	2614.2													26.1	492.3					
I-380	NB	243+22.6	359+83.2	M	6.0	11660.6													105.6	4138.3					
I-380	NB	243+22.6	249+04.3	O	6.0	581.7													5.8	109.5					
I-380	NB	249+04.3	255+41.3	O	6.0	637.0													6.4	125.6					
I-380	NB	255+41.3	264+50.9	O	6.0	905.6													5.1	194.9					
I-380	NB	264+50.9	268+24.3	O	6.0	163.9													1.8	50.8					
I-380	NB	278+21.6	285+24.3	O	6.0	63.9													0.6	16.8					
I-380	NB	285+24.3	346+82.3	O	6.0	6158.0													61.6	1679.2					
I-380	NB	346+82.3	357+50.0	O	6.0	1067.7													10.7	488.3					
I-380	NB	357+50.0	359+83.2	O	6.0	233.2													2.3	63.6					
I-380	NB	362+50.6	419+32.9	M	6.0	5682.3													56.8	2016.6					
I-380	NB	362+10.6	384+40.4	O	6.0	2229.8													22.3	698.0					
I-380	NB	384+40.4	389+87.9	O	6.0	547.4													5.5	213.5					
I-380	NB	389+87.9	419+32.9	O	6.0	2945.0													29.5	1184.4					
I-380	NB	428+82.0	439+18.0	M	6.0	1036.0													10.4	229.6	Match Adjacent Rumble Strip Pattern				
I-380	EB	428+82.0	439+18.0	M	6.0	1036.0													10.4	229.6	Match Adjacent Rumble Strip Pattern				
I-380	SB	521+61.4	524+36.5	O	10.0	275.1													305.7	48.6	Match Adjacent Rumble Strip Pattern				
I-380	SB	521+73.7	524+36.5	O	6.0	256.8													174.2	35.3	Match Adjacent Rumble Strip Pattern				
I-380	NB	524+36.5	547+88.7	M	6.0	2272.2													22.7	896.4					
I-380	NB	524+36.5	588+55.5	O	6.0	1419.0													14.2	371.4					
I-380	NB	588+55.5	604+36.5	O	6.0	109.0													1.3	28.4					
I-380	NB	544+86.5	547+88.7	O	6.0	222.7													2.2	58.3					
US 20 Ramp C	NB	3547+88.6	3587+82.9	O	6.0	3994.4													39.9	1417.6					
US 20 Ramp C	NB	3547+88.6	3587+82.9	M	6.0	3994.4													39.9	1417.6					
Shoulder Strengthening	NB	132+68.9	134+82.0	M	1.5	213.2													2.1	84.9					
I-380	NB	132+68.9	134+82.0	M	1.5	213.2													2.1	84.9					
I-380	NB	132+98.2	133+73.3	O	4.0	75.1													11.794	15.710					
I-380	NB	134+173.3	134+43.5	O	4.0	37.6													9.161	12.173					
I-380	NB	134+173.3	134+43.5	O	5.5	34.3													6.847	21.689					
I-380	NB	132+37.0	132+64.9	M	1.6	27.9													1.515	5.431					
I-380	NB	132+64.9	132+89.3	M	1.6	24.5													2.491	10.186					
I-380	NB	132+89.3	134+17.0	M	1.6	33.7													3.046	12.468					
I-380	NB	134+17.0	134+51.5	M	1.6	37.2													3.046	12.468					
I-380	NB	134+51.5	134+89.5	M	1.6	32.5													9.069	24.888					
I-380	NB	134+89.5	135+22.1	M	1.6	32.5													9.470	29.120					
I-380	NB	202+85.3	202+85.3	O	3.3	8.1													1.091	13.399					
I-380	NB	204+18.4	204+56.1	O	4.1	37.9													6.788	24.502					
I-380	NB	204+18.4	204+56.1	O	5.6	32.5													6.995	21.227					
I-380	NB	204+56.1	204+88.6	O	5.6	32.5													10.723	32.964					

**SHOULDERS**

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Calculations assume a HMA unit weight (lbs/cf) of 145, a Special Backfill unit weight (lbs/cf) of 140, and a Granular Shoulder unit weight (lbs/cf) of 140.

Road Identification	Station to Station	Slide	P	G	L	Class 13 Excavation Widening		HMA Base Widening		①	Hot Mix Asphalt: 6"		Paved Shoulder	Reinforced Paved Shoulder	Special Backfill		Modified Subbase	Granular Shoulder		Earth Shoulder Construction		Remarks																				
						Excavation	Widening	TON	TON/STA		TON	TON/STA			TON	TON/STA		TON	TON/STA	TON	TON/STA		TON	TON/STA	TON	TON/STA	TON	TON/STA	TON	TON/STA												
NB	289+37.3	289+15.1	M	1.5	27.9	1.452	5.214	4.7	1.580	5.670	0.3	1.580	5.670	0.3	1.580	5.670	0.3	1.580	5.670	0.3	1.580	5.670	**																			
NB	293+15.1	293+39.6	M	1.52-3.98	24.5	2.450	10.005	7.5	3.000	12.250	0.2	3.000	12.250	0.2	3.000	12.250	0.2	3.000	12.250	0.2	3.000	12.250	**																			
NB	293+39.6	295+02.2	M	4.0	162.5	22.980	14.138	71.9	30.493	18.760	1.6	30.493	18.760	1.6	30.493	18.760	1.6	30.493	18.760	1.6	30.493	18.760	**																			
NB	295+02.2	295+39.8	M	3.98-5.48	37.7	6.469	17.183	19.8	8.934	23.790	0.4	8.934	23.790	0.4	8.934	23.790	0.4	8.934	23.790	0.4	8.934	23.790	**																			
NB	295+39.8	295+72.3	M	5.5	32.5	6.369	19.580	19.8	9.536	28.760	0.3	9.536	28.760	0.3	9.536	28.760	0.3	9.536	28.760	0.3	9.536	28.760	**																			
NB	242+93.1	243+19.8	M	1.7	26.7	1.520	5.685	4.9	1.610	6.020	0.3	1.610	6.020	0.3	1.610	6.020	0.3	1.610	6.020	0.3	1.610	6.020	**																			
NB	243+19.8	243+44.6	M	1.65-4.00	24.8	2.530	10.223	7.8	3.067	12.390	0.2	3.067	12.390	0.2	3.067	12.390	0.2	3.067	12.390	0.2	3.067	12.390	**																			
NB	243+44.6	245+19.6	M	4.19	175.0	24.874	14.211	71.8	32.858	18.760	1.6	32.858	18.760	1.6	32.858	18.760	1.6	32.858	18.760	1.6	32.858	18.760	**																			
NB	245+19.6	245+57.1	M	5.4	32.4	6.217	19.181	19.3	9.052	27.930	0.3	9.052	27.930	0.3	9.052	27.930	0.3	9.052	27.930	0.3	9.052	27.930	**																			
NB	322+22.8	322+50.6	O	0-2.79	27.7	1.655	5.967	4.3	1.887	6.884	0.3	1.887	6.884	0.3	1.887	6.884	0.3	1.887	6.884	0.3	1.887	6.884	**																			
NB	322+50.6	322+88.6	O	2.79-4.31	37.8	5.308	13.165	14.9	7.446	28.390	0.3	7.446	28.390	0.3	7.446	28.390	0.3	7.446	28.390	0.3	7.446	28.390	**																			
NB	322+88.6	323+03.9	O	4.3	34.2	5.363	18.494	15.6	7.513	24.394	0.3	7.513	24.394	0.3	7.513	24.394	0.3	7.513	24.394	0.3	7.513	24.394	**																			
NB	362+10.6	362+15.5	O	1.5	4.9	0.275	5.588	0.8	0.244	4.945	0.0	0.244	4.945	0.0	0.244	4.945	0.0	0.244	4.945	0.0	0.244	4.945	**																			
NB	362+15.5	362+40.4	O	1.5-4.0	24.8	2.514	10.122	7.6	2.565	10.377	0.2	2.565	10.377	0.2	2.565	10.377	0.2	2.565	10.377	0.2	2.565	10.377	**																			
NB	362+40.4	362+65.7	O	4.0-5.9	35.4	6.675	17.852	19.7	9.038	24.173	0.4	9.038	24.173	0.4	9.038	24.173	0.4	9.038	24.173	0.4	9.038	24.173	**																			
NB	362+65.7	364+03.1	O	4.0-5.5	32.5	6.847	21.049	19.9	10.617	32.636	0.3	10.617	32.636	0.3	10.617	32.636	0.3	10.617	32.636	0.3	10.617	32.636	**																			
NB	364+03.1	364+35.6	O	5.5	32.5	1.525	5.467	4.9	1.641	5.880	0.3	1.641	5.880	0.3	1.641	5.880	0.3	1.641	5.880	0.3	1.641	5.880	**																			
NB	362+02.6	362+30.5	M	1.6	27.9	1.525	5.467	4.9	1.641	5.880	0.3	1.641	5.880	0.3	1.641	5.880	0.3	1.641	5.880	0.3	1.641	5.880	**																			
NB	362+30.5	362+57.9	M	1.59-4.41	27.9	1.525	5.467	4.9	1.641	5.880	0.3	1.641	5.880	0.3	1.641	5.880	0.3	1.641	5.880	0.3	1.641	5.880	**																			
NB	362+57.9	364+57.7	M	4.1	212.8	30.628	14.392	95.8	40.668	19.110	2.1	40.668	19.110	2.1	40.668	19.110	2.1	40.668	19.110	2.1	40.668	19.110	**																			
NB	364+57.7	365+05.1	M	4.05-5.55	37.4	6.598	17.400	19.9	9.032	24.150	0.4	9.032	24.150	0.4	9.032	24.150	0.4	9.032	24.150	0.4	9.032	24.150	**																			
NB	365+05.1	365+37.7	M	5.6	32.6	6.468	19.834	20.1	9.484	29.120	0.3	9.484	29.120	0.3	9.484	29.120	0.3	9.484	29.120	0.3	9.484	29.120	**																			
NB	388+71.7	389+39.6	O	3.2-6.9	67.9	12.397	18.263	38.1	15.343	32.693	0.7	15.343	32.693	0.7	15.343	32.693	0.7	15.343	32.693	0.7	15.343	32.693	**																			
NB	389+39.6	389+77.3	O	6.9-8.4	32.5	10.645	28.265	32.0	16.360	43.442	0.4	16.360	43.442	0.4	16.360	43.442	0.4	16.360	43.442	0.4	16.360	43.442	**																			
NB	389+77.3	390+09.8	O	8.4	32.5	10.231	31.461	30.4	16.880	51.906	0.3	16.880	51.906	0.3	16.880	51.906	0.3	16.880	51.906	0.3	16.880	51.906	**																			
NB	403+31.1	404+26.0	O	3.2-4.2	105.4	12.074	11.458	37.5	10.777	10.277	1.1	10.777	10.277	1.1	10.777	10.277	1.1	10.777	10.277	1.1	10.777	10.277	**																			
NB	404+26.0	404+54.8	O	4.2	39.4	5.544	14.728	16.5	10.000	18.553	0.4	10.000	18.553	0.4	10.000	18.553	0.4	10.000	18.553	0.4	10.000	18.553	**																			
NB	404+54.8	404+57.0	O	4.7	32.5	5.849	17.981	17.0	8.770	26.960	0.3	8.770	26.960	0.3	8.770	26.960	0.3	8.770	26.960	0.3	8.770	26.960	**																			
NB	539+47.1	539+79.6	O	8.4	32.4	10.209	31.461	30.3	16.843	51.906	0.3	16.843	51.906	0.3	16.843	51.906	0.3	16.843	51.906	0.3	16.843	51.906	**																			
NB	540+17.5	540+55.1	O	6.9-9.2	30.0	10.560	18.263	21.1	8.490	22.663	0.4	8.490	22.663	0.4	8.490	22.663	0.4	8.490	22.663	0.4	8.490	22.663	**																			
NB	540+55.1	540+85.1	O	3.2	30.0	3.432	11.458	10.6	3.063	10.277	0.3	3.063	10.277	0.3	3.063	10.277	0.3	3.063	10.277	0.3	3.063	10.277	**																			
NB	539+47.0	539+79.5	M	8.4	32.5	10.234	31.461	30.4	16.885	51.906	0.3	16.885	51.906	0.3	16.885	51.906	0.3	16.885	51.906	0.3	16.885	51.906	**																			
NB	540+17.5	540+54.9	M	6.9-9.2	32.4	10.560	18.263	21.0	8.451	22.663	0.4	8.451	22.663	0.4	8.451	22.663	0.4	8.451	22.663	0.4	8.451	22.663	**																			
NB	540+54.9	540+84.9	M	3.2	30.0	3.440	11.458	10.7	3.070	10.277	0.3	3.070	10.277	0.3	3.070	10.277	0.3	3.070	10.277	0.3	3.070	10.277	**																			
** Earth shoulder construction included with mainline shoulder.																						TOTALS:	764.3	24981.9	3546.3	1407.487																