A d d e n d u m

Iowa Department of Transportation
Office of Contracts

Date of Letting: May 16, 2017
Date of Addendum: April 24, 2017

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
106	91-0925-052	PCC PAVEMENT - GRADE & REPLACE	WARREN	HSIPX-092-5(52)--3L-91 NHSN-092-5(56)--2R-91 MP-092-5(704)119--76-91	18MAY106A01

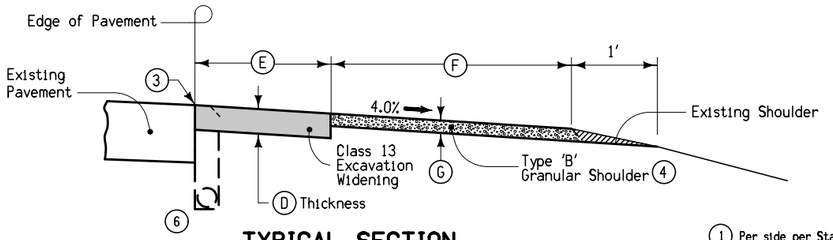
Make the following changes to the PROPOSAL SCHEDULE OF PRICES:

Change Proposal Line No. 0060 2122-5500060 PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 6 IN.:
From: 25,955.600 SY
To: 28,497.500 SY

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

Replace plan sheets B.1, B.2, & C.1 for HSIPX-092-5(52)--3L-91 with the attached plan sheets.

7152 A
MODIFIED



DESIGN RATES	
ITEM	RATE
HMA Base	145 lbs/cu ft
Asphalt Binder	6% Content
Type 'B' Granular	140 lbs/cu ft
Tack Coat *	0.05 gal/sq yd

* Not a bid item

TYPICAL SECTION
RETROFIT HOT MIX ASPHALT PAVED SHOULDER

Equations:
POT Sta 257+93.00 BK (NHSN-092-5(56)--2R-91) design =
POT Sta 157+82.13 (NHSN-092-5(56)--2R-91) survey =
POT Sta 157+77.42 (FN-92-5(16)--21-91) As-built plan =
POT Sta 19+58.33 (P-569)

(1) Per side per Station.
(2) Bid Items.
(3) Provide a vertical edge. Incidental to Class 13 Excavation Widening.
(4) Place and compact material then blade and shape to existing shoulder in the outer 1'-0" and roll with loaded truck tire.
(5) Estimated for 2 applications including vertical faces.
(6) See Tab 104-9 for locations.

Location					(D)	(E)	(F)	(G)	Quantities (1)					
Road Identification	Station to Station		Side	Sta.	Inches	Feet	Feet	Inches	CL 13 Excavation Widening Cu.Yds. (2)	HMA Paved Shoulder Sq.Yds. (2)	Hot Mix Asphalt Tons	Tack Coat Gal. (5)	Asphalt Binder Tons	Granular Shoulder Type 'B' Tons (2)
Begin Project	49+24.05		6" Paved Shoulders											
IA 92	49+24.05	119+60.00	LT	70.36	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	49+24.05	119+60.00	RT	70.36	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	119+60.00	131+19.42	LT	11.59	6	4	8	1.5	7.41	44.44	14.50	2.22	0.87	7.00
IA 92	119+60.00	131+19.42	RT	11.59	6	4	8	1.5	7.41	44.44	14.50	2.22	0.87	7.00
Stop Project, Equation:	131+19.42	BK												
	231+35.00	AH												
Resume Project, Equation:	257+93.00	BK												
	19+58.33	AH												
Middle River Bridge, Maint # 9121.7S092, FHWA # 51111			8" Paved Shoulders											
IA 92	23+74.50	23+99.50	RT	0.25	8	8	0	0	19.75	88.89	38.67	4.44	2.32	0.00
IA 92	23+99.50	25+65.00	RT	1.66	8	8	0	0	19.75	88.89	38.67	4.44	2.32	0.00
IA 92	23+99.50	25+65.00	LT	1.66	8	8	0	0	19.75	88.89	38.67	4.44	2.32	0.00
				3.560					59.260	266.670	116.000	13.330	6.960	0.000
			6" Paved Shoulders											
IA 92	25+65.00	65+55.00	LT	39.90	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	25+65.00	65+30.00	RT	39.65	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	65+55.00	67+30.00	LT	1.75	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	67+30.00	87+54.00	LT	20.24	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	67+30.00	87+60.00	RT	20.30	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	87+54.00	90+15.00	LT	2.61	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	90+15.00	99+70.00	LT	9.55	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	90+15.00	98+25.00	RT	8.10	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	100+95.00	103+90.00	LT	2.95	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	103+90.00	132+30.00	LT	28.40	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	103+90.00	132+60.00	RT	28.70	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	132+30.00	135+75.00	LT	3.45	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	135+75.00	140+50.00	LT	4.75	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	135+50.00	140+35.00	RT	4.85	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	140+50.00	146+25.00	LT	5.75	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	146+25.00	187+00.00	LT	40.75	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	145+45.00	186+00.00	RT	40.55	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	187+00.00	192+50.00	LT	5.50	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	192+50.00	227+00.00	LT	34.50	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	192+50.00	227+00.00	RT	34.50	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	230+90.00	242+85.00	LT	11.95	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	230+90.00	241+70.00	RT	10.80	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	242+85.00	246+20.00	LT	3.35	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	246+20.00	253+15.00	LT	6.95	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	246+20.00	253+15.00	RT	6.95	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
IA 92	253+15.00	256+49.40	LT	3.34	6	4	4	1.5	7.41	44.44	14.50	2.22	0.87	3.50
Totals				584.00					4396.25	25955.61	8468.10	1297.78	508.11	2125.24

7152 B
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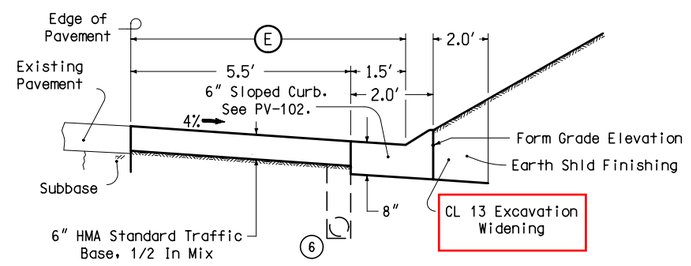


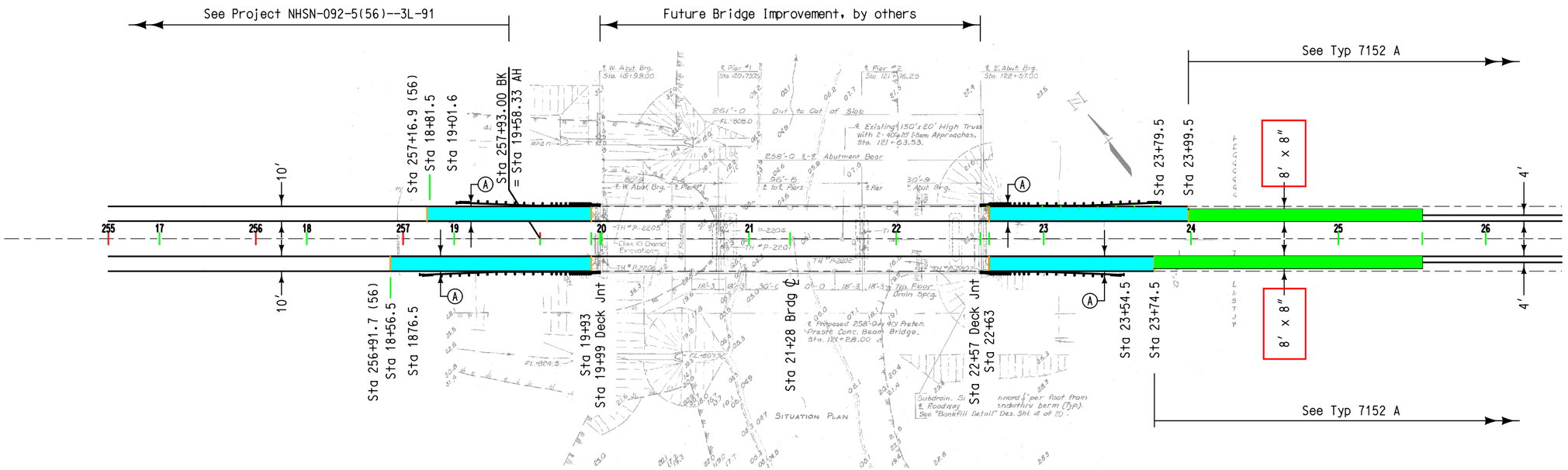
(1) Per side per station.
(2) Bid Items.
(3) Provide a vertical edge. Incidental to Class 13 Excavation.
(4) HMA Design Rate = 145 pcf
(5) Estimated for 2 applications at 0.05 gal./sq yd.
(6) See Tab 104-9 for location.

DESIGN RATES	
ITEM	RATE
HMA Base	145 lbs/cu ft
Asphalt Binder	6% Content
Type 'B' Granular	140 lbs/cu ft
Tack Coat *	0.05 gal/sq yd

* Not a bid item

TYPICAL SECTIONPAVED SHOULDER
HOT MIX ASPHALT WITH
6" SLOPED CURB AND GUTTER UNIT
ALONG HILLTOPS

Location				(E)	Quantities (1)					
Road Identification	Station to Station		Side	Feet	6" Sloped Curb Stations (2)	CL 13 Excav Widening Cu.Yds. (2)	Paved Shoulder Sq.Yds. (2)	Hot Mix Asphalt Tons (4)	Tack Coat Gal. (5)	Asphalt Binder Tons
Begin Project										
Stop Project, Equation:	131+19.42	BK								
	231+35.00	AH								
Resume Project, Equation:	257+93.00	BK								
	19+58.33	AH								
Middle River Bridge, Maint # 9121.7S092, FHWA # 51111					6" Paved Shoulders					
IA 92	65+30.00	67+30.00	RT	7	2.00	26.85	61.11	19.94	3.06	1.20
IA 92	87+60.00	90+15.00	RT	7	2.55	26.85	61.11	19.94	3.06	1.20
IA 92	98+25.00	103+90.00	RT	7	5.65	26.85	61.11	19.94	3.06	1.20
IA 92	99+70.00	100+95.00	LT	7	1.25	26.85	61.11	19.94	3.06	1.20
IA 92	132+60.00	135+50.00	RT	7	2.90	26.85	61.11	19.94	3.06	1.20
IA 92	140+35.00	145+45.00	RT	7	5.10	26.85	61.11	19.94	3.06	1.20
IA 92	186+00.00	192+50.00	RT	7	6.50	26.85	61.11	19.94	3.06	1.20
IA 92	227+00.00	230+90.00	LT	7	3.90	26.85	61.11	19.94	3.06	1.20
IA 92	227+00.00	230+90.00	RT	7	3.90	26.85	61.11	19.94	3.06	1.20
IA 92	241+70.00	246+20.00	RT	7	4.50	26.85	61.11	19.94	3.06	1.20
IA 92	253+15.00	256+49.40	RT	7	3.34	26.85	61.11	19.94	3.06	1.20
Totals					41.590	1116.85	2541.85	829.29	127.09	49.77



Equations:
POT Sta 257+93.00 BK (NHSN-092-5(56)--2R-91) design =
POT Sta 157+82.13 (NHSN-092-5(56)--2R-91) survey =
POT Sta 157+77.42 (FN-92-5(16)--21-91) As-built plan =
POT Sta 19+58.33 (P-569)

Sta 21+28.00 Maint. # 9121.7S092
FHWA # 51111

Legend:
10 ft. wide x 8 in. thick shoulder.
8 ft. wide x 8 in. thick shoulder.

DESIGN RATES	
ITEM	RATE
CL 13 Excavation	cu. yd.
8" HMA Paved Shldr	sq. yd.
Asphalt Cement	6.0% per Ton
Typ 'B' Granular	140 lbs./cu. ft.

TABLE OF DESIGN QUANTITIES (Actual per Location)

LOCATION								
ROAD IDENTIFICATION	STATION TO STATION	TOTAL Lin. Ft.	(A) Feet	TACK COAT (3) Gallons	ASPHALT CEMENT BINDER Tons (2)	HMA BASE COURSE Tons (2)	8" HMA PVD SHLDR SY (1)	EXCAVATION CL 13 Waste Cu. Yds. (2)
IA 92	18+56.5 Rt to 19+93 Rt	136.5	10	23.55	3.90	64.95	151.61	33.69
IA 92	22+63 Rt to 23+74.5 Rt	111.5	10	19.26	3.23	53.87	123.84	27.52
IA 92	18+81.5 Lt to 19+93 Lt	111.5	10	19.26	3.23	53.87	123.84	27.52
IA 92	22+63 Lt to 23+99.5 Lt	136.5	10	23.55	3.90	65.95	151.61	33.69
					14.26	237.64	550.90	122.44

(1) Not a Bid Item.
(2) Bid Items.
(3) Estimated for 1 application including vertical faces at 0.05 gal./sq. yd. Not a Bid Item.

Stationing Layout for Middle River Bridge Maint. # 9121.7S092 FHWA # 51111

FILE NO.	ENGLISH	DESIGN TEAM Van Dyke \ Phillips \ Hamilton	WARREN COUNTY	PROJECT NUMBER HSIPX-092-5(52)--3L-91	SHEET NUMBER B.2

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Changed by Addenda

100-1A
07-15-97

ESTIMATED PROJECT QUANTITIES
(1 DIVISION PROJECT)

Item No.	Item Code	Item	Unit	Total	As Built Qty.
1	2101-0850002	CLEARING AND GRUBBING	UNIT	1208	
2	2102-2625001	EMBANKMENT-IN-PLACE, CONTRACTOR FURNISHED	CY	111.4	
3	2102-2713090	EXCAVATION, CLASS 13, WASTE	CY	122.4	
4	2105-8425005	TOPSOIL, FURNISH AND SPREAD	CY	70.4	
5	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	2,444.0	
6	2122-5500060	PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 6 IN.	SY	28,497.5	
7	2122-5500080	PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 8 IN.	SY	266.7	
8	2123-7450020	SHOULDER FINISHING, EARTH	STA	41.59	
9	2213-2713300	EXCAVATION, CLASS 13, FOR WIDENING	CY	5,513.1	
10	2303-1031500	HOT MIX ASPHALT STANDARD TRAFFIC, BASE COURSE, 1/2 IN. MIX	TON	249.52	
11	2303-1258283	ASPHALT BINDER, PG 58-28S, STANDARD TRAFFIC	TON	14.97	
12	2303-6911000	HOT MIX ASPHALT PAVEMENT SAMPLES	LS	1.00	
13	2319-3000102	STRIP SLURRY TREATMENT FINE AGGREGATE	TON	36.1	
14	2319-3000200	SURFACE PREPARATION FOR STRIP SLURRY TREATMENT	MILE	6.2	
15	2319-4000000	ASPHALT EMULSION FOR SLURRY LEVELING, SLURRY WEDGE, AND SLURRY TREATMENT	GAL	1,189.2	
16	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	LF	34,290.0	
17	2502-8221304	SUBDRAIN OUTLET, DR-304	EACH	116	
18	2502-8221305	SUBDRAIN OUTLET, DR-305	EACH	21	
19	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL	LF	248.0	
20	2505-4008300	STEEL BEAM GUARDRAIL	LF	427.5	
21	2505-4021010	STEEL BEAM GUARDRAIL END ANCHOR, BOLTED	EACH	4	
22	2505-4021720	STEEL BEAM GUARDRAIL TANGENT END TERMINAL, BA-205	EACH	4	
23	2512-1725256	CURB AND GUTTER, P.C. CONCRETE, 2.5 FT.	LF	4,159.0	
24	2526-8285000	CONSTRUCTION SURVEY	LS	1.00	
25	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	991.45	
26	2528-8445110	TRAFFIC CONTROL	LS	1.00	
27	2528-8445113	FLAGGERS	EACH	See Proposal	
28	2528-8445115	PILOT CARS	EACH	See Proposal	
29	2530-0400061	HOT MIX ASPHALT (PARTIAL DEPTH PATCH MATERIAL)	TON	27.0	
30	2530-5070221	REGULAR PARTIAL DEPTH HOT MIX ASPHALT FINISH PATCHES, BY AREA	SY	168.0	
31	2533-4980005	MOBILIZATION	LS	1.00	
32	2544-1001100	CLEANING AND FILLING CRACKS (PAVEMENT MAINTENANCE)	MILE	6.2	
33	2544-1003000	FILLER MATERIAL (MAINTENANCE)	GAL	45.0	
34	2548-0000100	MILLED SHOULDER RUMBLE STRIPS, HMA SURFACE	STA	628.7	
35	2548-0000110	ASPHALT EMULSION FOR FOG SEAL (SHOULDER RUMBLE STRIPS)	GAL	681.1	
36	2548-0000310	MILLED CENTERLINE RUMBLE STRIPS, HMA SURFACE	STA	314.7	
37	2590-0000020	PROJECT MANAGEMENT	LS	1.00	
38	2602-0000020	SILT FENCE	LF	1,855.0	
39	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	101.0	
40	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	1	
41	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	1	

100-1D
10-18-05

PROJECT DESCRIPTION

This Project is an HMA Paved Shoulder - New on IA 92 from Mile Post 119.3 to Mile Post 126.5. The work includes the installation of longitudinal subdrains, add HMA fillets at non-paved side roads, farm, residential and commercial entrances and mill rumble strips strips into finished paved shoulders.

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
1	**2101-0850002**	**CLEARING AND GRUBBING**
		As per Standard Specifications and Standard Road Plans.
		Clear trees after Oct. 1, 2017 and before March 31, 2018.
-	-	-
2	**2102-2625001**	**EMBANKMENT-IN-PLACE, CONTRACTOR FURNISHED**
		See Tab 107-23 for information and locations.
		Class 13 Excavation material may be used as embankment in place upon approval of the Engineer.
-	-	-
3	**2102-2713090**	**EXCAVATION, CLASS 13, WASTE**
		See Sheet B.2 for paved shoulders along guard rail.
-	-	-
4	**2105-8425005**	**TOPSOIL, FURNISH AND SPREAD**
		See Tab 107-23 for information and locations.
-	-	-
5	**2121-7425020**	**GRANULAR SHOULDERS, TYPE B**
		See Typical 7152 A.
		Quantity increased by 15% for irregularities.
-	-	-
6	**2122-5500060**	**PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 6 IN.**
		See Typicals 7152 A, 7152 B, and B sheet showing Stationing Layout for Middle River Bridge.
-	-	-

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
7	**2122-5500080**	**PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 8 IN.**
		See Typical 7152A and B sheet showing Stationing Layout for Middle River Bridge.
		Item is for 8 ft. x 8 inch shoulder strengthening for future bridge improvement.
-	-	-
8	**2123-7450020**	**SHOULDER FINISHING, EARTH**
		See Typical 7152 B.
-	-	-
9	**2213-2713300**	**EXCAVATION, CLASS 13, FOR WIDENING**
		See Typical 7152 A and 7152B.
		Also see Embankment-In-Place bid item for partial disposal.
		This item includes existing 2 ft. wide HMA edge rut material at the following locations:
		Sta 60+70 Rt., 2340 lin. feet, east of I-35;
		Sta 30+46 Rt., 750 lin. feet, east of Middle River bridge;
		Sta 31+50 Lt., 1170 lin. feet, east of Middle River bridge;
		Sta 223+90 Rt., 1120 lin. feet, east of Middle River bridge.
-	-	-
10	**2303-1031500**	**HOT MIX ASPHALT STANDARD TRAFFIC, BASE COURSE, 1/2 IN. MIX**
11	**2303-1258283**	**ASPHALT BINDER, PG 58-28S, STANDARD TRAFFIC**
		See sheet B.2, Stationing Layout for 10 ft. x 8 inch shoulder at Middle River Bridge.
		Quantity increased by 5% for irregularities.
-	-	-
12	**2303-6911000**	**HOT MIX ASPHALT PAVEMENT SAMPLES**
		As per Standard Specifications and Road Plans.
-	-	-
13	**2319-3000102**	**STRIP SLURRY TREATMENT FINE AGGREGATE**
14	**2319-3000200**	**SURFACE PREPARATION FOR STRIP SLURRY TREATMENT**
15	**2319-4000000**	**ASPHALT EMULSION FOR SLURRY LEVELING, SLURRY WEDGE, AND SLURRY TREATMENT**
		A one-foot wide (12" in width) Strip Slurry Treatment is required along
		the centerline using the aggregate quantity of a "one-course" coverage.
		To be constructed after Tab 102-11 work is completed and after milling
		the proposed centerline rumble strips.
		Refer to Tab SST-1 for additional information and locations.
		Tons of aggregate is based upon 20 lbs / SY.
		Asphalt emulsion is estimated at a rate of 14% weight of fine
		aggregate, which includes the conversion factor of 8.5 lbs of
		aggregate per gallon of emulsion.
-	-	-
16	**2502-8212034**	**SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.**
17	**2502-8221304**	**SUBDRAIN OUTLET, DR-304**
18	**2502-8221305**	**SUBDRAIN OUTLET, DR-305**
		Items include new installation of longitudinal subdrain within the project,
		including the addition of new outlets at one end of the existing longitudinal subdrains.
		See Tab 104-9 for locations and information.
-	-	-
19	**2505-4008120**	**REMOVAL OF STEEL BEAM GUARDRAIL**
		See Tab 110-7A for information and locations.
-	-	-
20	**2505-4008300**	**STEEL BEAM GUARDRAIL**
21	**2505-4021010**	**STEEL BEAM GUARDRAIL END ANCHOR, BOLTED**
22	**2505-4021720**	**STEEL BEAM GUARDRAIL TANGENT END TERMINAL, BA-205**
		See Tab 108-8A for information and locations.
-	-	-
23	**2512-1725256**	**CURB AND GUTTER, P.C. CONCRETE, 2.5 FT.**
		See Typical 7152 B.
		Stationing is to be field verified by the Engineer, before construction.
-	-	-
24	**2526-8285000**	**CONSTRUCTION SURVEY**
		The preservation and referencing of existing Control Points, as indicated by
		article 2526.03, A, 10. HMA Overlays, will not be required by the Contractor.
		The resetting of Control Points after the work is complete, as part of this article,
		also will be not required by the Contractor.
		The District Land Surveyor will reset any land corner monuments or their associated
		permanent reference markers, as a result of their discovery during the progress of
		the project work.
		All other survey necessary for construction of the project, as provided by
		Section 2526 Construction Survey will be required. The Contractor shall be responsible
		for maintaining the location of the roadway centerline.
-	-	-
25	**2527-9263109**	**PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED**
		See Tab 108-22 for information and locations.
		Quantity increased by 5% for irregularities.
-	-	-
26	**2528-8445110**	**TRAFFIC CONTROL**
		As per Standard Specifications and Road Plans.
		See Standard Road Plans Tab 105-4.
		See Special Provision for Portable Rumble Strips and sheet J.2 for TC-214Mod.
-	-	-

Changed By Addenda