

# CONTRACT

J5370 CG

FA96 (Form 650019)  
05-13

Letting Date: October 20, 2015 Contract ID: 97-0201-133  
County: WOODBURY Project Engineer: SIOUX CITY RCE  
Cost Center: 611000 Object Code: 890  
Contract Work Type: PCC PAVEMENT - GRADE/NEW

Bid Order No.: 103

DBE Commitment: \$874,446.00

This agreement made and entered by and between the IOWA DEPARTMENT OF TRANSPORTATION,  
CONTRACTING AUTHORITY, AND  
PETERSON CONTRACTORS INC. OF REINBECK, IA, (PE320), CONTRACTOR

It is agreed that the notice and instructions to bidders, the proposal filed by the Contractor, the specifications, the plan, if any, for project(s) listed below, together with Contractor's performance bond, are made a part hereof and together with this instrument constitute the contract. This contract contains all of the terms and conditions agreed upon by the parties hereto. A true copy of said plan is now on file in the office of the Contracting Authority under date of 10/15/2015.

SEE ATTACHED PROJECT LIST ON PAGE 1C.

The specifications consist of the Standard Specifications for Highway and Bridge Construction, Series 2015 of the Iowa Department of Transportation plus the following Supplemental Specifications, Special Provisions, and addendums: DS-15005, DS-15011, DS-15019, DS-15031, DS-15032, DS-15033, FHWA-1273.05, GS-15001, IA15-1.1A, SS-15003, ADDENDUMS: 20OCT103.A01, 20OCT103.A02, 20OCT103.A03, 20OCT103.A04

Contractor, for and in considerations of \$29,038,007.91 payable as set forth in the specifications constituting a part of this contract, agrees to construct various items of work and/or provide various materials or supplies in accordance with the plans and specifications therefore, and in the locations designated in the Notice to Bidders.

Contractor certifies by signature on this contract, under pain of penalties for false certification, that the Contractor has complied with Iowa Code Section 452A.17(8) as amended, if applicable, and Iowa Code Section 91C.5 (Public Registration Number), if applicable.

In consideration of the foregoing, Contracting authority hereby agrees to pay the Contractor promptly and according to the requirements of the specifications the amounts set forth, subject to the conditions as set forth in the specifications.

It is further understood and agreed that the above work shall also be commenced or completed in accordance with Page 1B of this Contract and assigned Proposal Notes.

To accomplish the purpose herein expressed, the Contracting authority and Contractor have signed this and one other identical instrument.

For Federal-Aid contracts the Contractor certifies that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the contract.

By [Signature]  
Contractor

By [Signature]  
Contracting Authority

Contractor (if joint venture)  
NOV 04 2015

Contract Award Date

Iowa DOT Concurrence

For Local Agency Contracts

Concurrence Date

Letting Date: October 20, 2015 Contract ID: 97-0201-133

Bid Order No. : 103

It is further understood and agreed that the above work shall be commenced or completed in accordance with the following schedule:

SITE NUMBER	CONTRACT PERIOD /SITE DESCRIPTION	LIQUIDATED DAMAGES
01	APPROX START DATE 06/18/2016 60 WORKING DAYS SEE SITE NUMBER 01 DESCRIPTION BELOW.	\$2,000.00
02	CONTRACT COMPLETION DATE: 11/23/2016 SEE SITE NUMBER 02 DESCRIPTION BELOW.	\$5,000.00
03	CONTRACT COMPLETION DATE: 10/31/2017 SEE SITE NUMBER 03 DESCRIPTION BELOW.	\$2,000.00
04	NO START DATE SPECIFIED 20 WORKING DAYS SEE SITE NUMBER 04 DESCRIPTION BELOW.	\$2,000.00

CONTRACT NOTES

WORK THAT REQUIRES THE USE OF A LANE CLOSURE, SHOULDER CLOSURE OR DETOUR MAY NOT COMMENCE UNTIL 3/28/16.

SITE 01: THIS SITE IS FOR THE COMPLETION OF MINNESOTA AVE FROM STATION 804+00 TO 824+15. THIS SITE REQUIRES THE OPENING OF MINNESOTA AVE TO LOCAL TRAFFIC. WORK ON MINNESOTA CANNOT COMMENCE UNTIL LEE AVE IS OPEN TO TRAFFIC. LEE AVE HAS A COMPLETION DATE OF 6/17/2016 IN THE NHSX-020-1(117)--3H-97 PROJECT.

SITE 02: COMPLETION OF THE WESTBOUND LANES. THIS SITE REQUIRES THAT TRAFFIC BE REMOVED FROM THE DETOUR AND BE IN THE WEST BOUND LANES. THE WEST BOUND LANES AND SHOULDERS SHALL BE OPEN TO TRAFFIC WITH NO FURTHER CLOSURES. ALL APPROPRIATE SIGNING MUST BE COMPLETED.

SITE 03: THIS SITE IS FOR THE COMPLETION OF THE EB LANES. THIS SITE REQUIRES ALL 4 LANES TO BE OPEN TO TRAFFIC WITH NO ADDITIONAL LANE CLOSURES. ALL APPROPRIATE SIGNING MUST BE COMPLETED.

SITE 04: THIS SITE IS FOR ALL WORK NOT INCLUDED IN SITES 1-3 ABOVE. THIS WOULD INCLUDE EROSION CONTROL AND SEEDING.

LETTING DATE: October 20, 2015

BID ORDER NO.: 103

PROJECT: NHSX-020-1(130)--3H-97 COUNTY: WOODBURY  
 WORK TYPE: BRIDGE NEW - PPCB ACCOUNTING ID: 32883  
 ROUTE: U.S. 20 LENGTH (MILES): 0  
 LOCATION: U.S. 20 WB AND EB OVER LITTLE SIOUX RIVER  
 0.4 MILES WEST OF IA 31  
 FEDERAL AID - PREDETERMINED WAGES ARE IN EFFECT  
 PROJECT AMOUNT: \$4,918,363.40

PROJECT: NHSX-020-1(133)--3H-97 COUNTY: WOODBURY  
 WORK TYPE: PCC PAVEMENT - GRADE/NEW ACCOUNTING ID: 32884  
 ROUTE: U.S. 20 LENGTH (MILES): 4.3  
 LOCATION: FROM MINNESOTA AVE. E. TO W. OF CORRECTIONVILLE (WBL/EBL)  
 FEDERAL AID - PREDETERMINED WAGES ARE IN EFFECT MILE POST: 29.15 TO 32.75  
 PROJECT AMOUNT: \$22,306,704.46

PROJECT: NHSX-020-1(147)--3H-97 COUNTY: WOODBURY  
 WORK TYPE: RCB CULVERT RPLC - SINGLE BOX ACCOUNTING ID: 32885  
 ROUTE: U.S. 20 LENGTH (MILES): 0  
 LOCATION: 1.4 MILES E. OF CO. RD. L-25  
 FEDERAL AID - PREDETERMINED WAGES ARE IN EFFECT  
 PROJECT AMOUNT: \$1,075,409.95

PROJECT: NHSX-020-1(149)--3H-97 COUNTY: WOODBURY  
 WORK TYPE: PIPE CULVERT / FLUME ACCOUNTING ID: 32886  
 ROUTE: U.S. 20 LENGTH (MILES): 11.02  
 LOCATION: 2.3 MILES E. OF CO. RD. L-25  
 FEDERAL AID - PREDETERMINED WAGES ARE IN EFFECT  
 PROJECT AMOUNT: \$685,018.10

PROJECT: NHSX-020-1(170)--3H-97 COUNTY: WOODBURY  
 WORK TYPE: TRAFFIC SIGNS ACCOUNTING ID: 32887  
 ROUTE: U.S. 20 LENGTH (MILES): 11.02  
 LOCATION: FROM MINNESOTA AVE. E. TO W. OF CORRECTIONVILLE (WBL/EBL)  
 FEDERAL AID - PREDETERMINED WAGES ARE IN EFFECT  
 PROJECT AMOUNT: \$52,512.00

CONTRACT SCHEDULE OF PRICES

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Vendor No.: PE320 Bid Order No.: 103  
 Contract ID No.: 97-0201-133 Letting Date: October 20, 2015  
 Primary Work Type: PCC PAVEMENT - GRADE AND NEW 10:00 A.M.  
 Primary County: WOODBURY

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price Dollars   Cts	Bid Amount Dollars   Cts
SECTION 0001 DESIGN NO. 114; A 486'-0 X 40'-0 PRETENSION PRESTRESSED CONCETE BEAM BRIDGE NHSX-020-1(130)--3H-97				
0010	2104-2710020 EXCAVATION, CLASS 10, CHANNEL	603.000 CY	10.59000	6,385.77
0020	2401-6745625 REMOVAL OF EXISTING BRIDGE	LUMP	LUMP	103,000.00
0030	2402-2720000 EXCAVATION, CLASS 20	139.000 CY	18.65000	2,592.35
0040	2403-0100010 STRUCTURAL CONCRETE (BRIDGE)	522.400 CY	373.96000	195,356.70
0050	2403-7000210 HIGH PERFORMANCE STRUCTURAL CONCRETE	796.700 CY	538.74000	429,214.16
0060	2404-7775000 REINFORCING STEEL	69,012.000 LB	0.90000	62,110.80
0070	2404-7775005 REINFORCING STEEL, EPOXY COATED	162,915.000 LB	1.05000	171,060.75
0080	2404-7775009 REINFORCING STEEL, STAINLESS STEEL	7,026.000 LB	4.17000	29,298.42
0090	2405-2705000 EXCAVATE AND DEWATER	LUMP	LUMP	207,372.09
0100	2407-0563120 BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTC120	24.000 EACH	203.92000	4,894.08
0110	2408-7800000 STRUCTURAL STEEL	19,358.000 LB	3.05000	59,041.90

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Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts
0120	2413-1200000 STEEL  EXTRUSION JOINT WITH  NEOPRENE	 96.000   LF	 203.92000		 19,576.32	
0130	2413-1200100 NEOPRENE  GLAND INSTALLATION AND  TESTING	 96.000   LF	 27.00000		 2,592.00	
0140	2414-6424110 CONCRETE  BARRIER RAILING	 1,032.100   LF	 101.70000		 104,964.57	
0150	2501-0201473 PILES,  STEEL, HP 14 X 73	 7,040.000   LF	 49.47000		 348,268.80	
0160	2501-6335010 PREBORED  HOLES	 640.000   LF	 46.46000		 29,734.40	
0170	2507-2638650 BRIDGE WING  ARMORING - EROSION STONE	 12.000   SY	 116.39000		 1,396.68	
0180	2507-3250005 ENGINEERING  FABRIC	 1,110.800   SY	 2.24000		 2,488.19	
0190	2507-6800061 REVETMENT,  CLASS E	 753.400   TON	 55.78000		 42,024.65	
0200	2507-8029000 EROSION  STONE	 223.200   TON	 50.56000		 11,284.99	
0210	2533-4980005  MOBILIZATION	  LUMP	  LUMP		 211,292.00	
SECTION 0002 DESIGN NO. 214; A 486'-0 X 40'-0 PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGE NHSX-020-1(130)--3H-97						
0220	2104-2710020 EXCAVATION,  CLASS 10, CHANNEL	 2,068.000   CY	 15.66000		 32,384.88	

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			Dollars	Cts	Dollars	Cts
0230	2402-2720000 EXCAVATION, CLASS 20	292.000 CY	8.88000		2,592.96	
0240	2403-0100010 STRUCTURAL CONCRETE (BRIDGE)	522.400 CY	357.19000		186,596.06	
0250	2403-7000210 HIGH PERFORMANCE STRUCTURAL CONCRETE	795.600 CY	543.32000		432,265.39	
0260	2404-7775000 REINFORCING STEEL	68,916.000 LB	0.90000		62,024.40	
0270	2404-7775005 REINFORCING STEEL, EPOXY COATED	162,875.000 LB	1.05000		171,018.75	
0280	2404-7775009 REINFORCING STEEL, STAINLESS STEEL	7,026.000 LB	4.17000		29,298.42	
0290	2405-2705000 EXCAVATE AND DEWATER	LUMP	LUMP		184,775.14	
0300	2407-0563120 BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTC120	24.000 EACH	24,471.89000		587,325.36	
0310	2408-7800000 STRUCTURAL STEEL	19,358.000 LB	3.05000		59,041.90	
0320	2413-1200000 STEEL EXTRUSION JOINT WITH NEOPRENE	96.000 LF	203.92000		19,576.32	
0330	2413-1200100 NEOPRENE GLAND INSTALLATION AND TESTING	96.000 LF	39.30000		3,772.80	

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0340	2414-6424110 CONCRETE BARRIER RAILING	1,032.100 LF	101.70000	104,964.57
0350	2501-0201473 PILES, STEEL, HP 14 X 73	6,720.000 LF	49.04000	329,548.80
0360	2507-2638650 BRIDGE WING ARMORING - EROSION STONE	12.000 SY	116.39000	1,396.68
0370	2507-3250005 ENGINEERING FABRIC	2,299.900 SY	2.24000	5,151.78
0380	2507-6800021 REVETMENT, CLASS B	117.200 TON	67.03000	7,855.92
0390	2507-6800061 REVETMENT, CLASS E	2,962.800 TON	58.58000	173,560.82
0400	2507-8029000 EROSION STONE	386.700 TON	50.56000	19,551.55
0410	2533-4980005 MOBILIZATION	LUMP	LUMP	211,292.00
SECTION 0003 ROADWAY ITEMS				
NHSX-020-1(130)--3H-97				
0420	2122-5190501 PAVED SHOULDER, PORTLAND CEMENT CONCRETE (PAVED SHOULDER PANEL FOR BRIDGE END DRAIN)	84.400 SY	120.00000	10,128.00
0430	2301-0690203 BRIDGE APPROACH, BR-203	1,514.800 SY	146.00000	221,160.80

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0440	2412-0000100 LONGITUDINAL GROOVING IN CONCRETE	5,434.800 SY	2.60000	14,130.48
0450	2503-0500401 BRIDGE END DRAIN, DR-401	2.000 EACH	2,500.00000	5,000.00
SECTION 0004 ROADWAY ITEMS				
NHSX-020-1(133)--3H-97				
0460	2101-0850001 CLEARING AND GRUBBING	2.500 ACRE	3,500.00000	8,750.00
0475	2102-0425071 SPECIAL BACKFILL	11,229.600 CY	25.00000	280,740.00
0480	2102-2624980 CONTRACTOR FURNISHED SELECT TREATMENT	119,060.000 CY	16.38000	1,950,202.80
0490	2102-2625000 EMBANKMENT-IN-PLACE	1,030.000 CY	6.85000	7,055.50
0500	2102-2710070 EXCAVATION, CLASS 10, ROADWAY AND BORROW	2,269,635 CY	2.75000	6,241,496.25
0510	2102-2710090 EXCAVATION, CLASS 10, WASTE	29,742.000 CY	3.90000	115,993.80
0520	2102-2712015 EXCAVATION, CLASS 12, BOULDERS OR ROCK FRAGMENTS	150.000 CY	34.00000	5,100.00
0530	2102-4560000 LOCATING TILE LINES	381.000 STA	57.00000	21,717.00
0540	2105-8425005 TOPSOIL, FURNISH AND SPREAD	23,355.000 CY	15.40000	359,667.00

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0550	2105-8425011 TOPSOIL,  SPREAD	 213,597.000  CY	 1.50000	 320,395.50
0560	2105-8425020 TOPSOIL,  STRIP AND STOCKPILE	 265,808.000  CY	 1.50000	 398,712.00
0570	2107-0425020 COMPACTING  BACKFILL ADJACENT TO  BRIDGES, CULVERTS OR  STRUCTURES	 1,718.600  CY	 4.45000	 7,647.77
0580	2107-0875100 COMPACTION  WITH MOISTURE CONTROL	 1,843,156  CY	 0.25000	 460,789.00
0590	2111-8174100 GRANULAR  SUBBASE	 142,632.800  SY	 10.29000	 1,467,691.51
0600	2112-0000100 WICK DRAIN	 299,286.300  LF	 0.49000	 146,650.29
0605	2115-0100000 MODIFIED  SUBBASE	 1,085.400  CY	 40.00000	 43,416.00
0610	2121-7425010 GRANULAR  SHOULDERS, TYPE A	 9,797.000  TON	 22.25000	 217,983.25
0620	2122-5190010 PAVED  SHOULDER, P.C. CONCRETE,  10 IN.	 7,140.300  SY	 36.50000	 260,620.95
0630	2123-7450000 SHOULDER  CONSTRUCTION, EARTH	 689.100  STA	 145.00000	 99,919.50
0640	2123-7450020 SHOULDER  FINISHING, EARTH	 56.300  STA	 195.00000	 10,978.50

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			Dollars	Cts	Dollars	Cts
0665	2301-9091000 RUMBLE  STRIP PANEL (PCC  SURFACE)	 4.000  EACH	 175.00000		 700.00	
0670	2301-1003100 STANDARD OR  SLIP-FORM PORTLAND  CEMENT CONCRETE PAVEMENT,  QM-C, CLASS 3 DURABILITY,  10 IN.	 118,525.700  SY	 30.60000		 3,626,886.42	
0680	2303-9091010 RUMBLE  STRIP PANEL (HMA  SURFACE)	 8.000  EACH	 325.00000		 2,600.00	
0690	2304-0100000 DETOUR  PAVEMENT	 1,525.000  SY	 44.00000		 67,100.00	
0700	2312-8260051 GRANULAR  SURFACING ON ROAD, CLASS  A CRUSHED STONE	 540.000  TON	 21.00000		 11,340.00	
0710	2315-8275025 SURFACING,  DRIVEWAY, CLASS A  CRUSHED STONE	 549.000  TON	 21.00000		 11,529.00	
0720	2401-6745650 REMOVAL OF  EXISTING STRUCTURES	 LUMP	 LUMP		 85,000.00	
0730	2402-0425040 FLOODED  BACKFILL	 3,956.100  CY	 30.00000		 118,683.00	
0740	2402-2720100 EXCAVATION,  CLASS 20, FOR ROADWAY  PIPE CULVERT	 12,148.800  CY	 8.00000		 97,190.40	
0750	2416-0100024 APRONS,  CONCRETE, 24 IN. DIA.	 27.000  EACH	 950.00000		 25,650.00	
0760	2416-0100030 APRONS,  CONCRETE, 30 IN. DIA.	 7.000  EACH	 975.00000		 6,825.00	

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			Dollars	Cts	Dollars	Cts
0770	2416-0100036 APRONS, CONCRETE, 36 IN. DIA.	6.000 EACH	1,450.00000		8,700.00	
0780	2416-0100042 APRONS, CONCRETE, 42 IN. DIA.	4.000 EACH	1,775.00000		7,100.00	
0790	2416-0100048 APRONS, CONCRETE, 48 IN. DIA.	3.000 EACH	1,900.00000		5,700.00	
0800	2416-0100054 APRONS, CONCRETE, 54 IN. DIA.	1.000 EACH	2,300.00000		2,300.00	
0810	2416-0100066 APRONS, CONCRETE, 66 IN. DIA.	1.000 EACH	2,900.00000		2,900.00	
0820	2416-1180024 CULVERT, CONCRETE ROADWAY PIPE, 24 IN. DIA.	1,914.000 LF	60.00000		114,840.00	
0830	2416-1180030 CULVERT, CONCRETE ROADWAY PIPE, 30 IN. DIA.	584.000 LF	74.00000		43,216.00	
0840	2416-1180036 CULVERT, CONCRETE ROADWAY PIPE, 36 IN. DIA.	256.000 LF	92.00000		23,552.00	
0850	2416-1180048 CULVERT, CONCRETE ROADWAY PIPE, 48 IN. DIA.	106.000 LF	160.00000		16,960.00	
0860	2416-1180066 CULVERT, CONCRETE ROADWAY PIPE, 66 IN. DIA.	140.000 LF	260.00000		36,400.00	
0870	2416-1240054 CULVERT, 3000D CONCRETE ROADWAY PIPE, 54 IN. DIA.	170.000 LF	230.00000		39,100.00	

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			Dollars	Cts	Dollars	Cts
0880	2416-1245030 CULVERT, 3750D CONCRETE ROADWAY PIPE, 30 IN. DIA.	392.000 LF	140.00000		54,880.00	
0890	2416-1262024 CULVERT, CONCRETE PIPE, 2000D, TRENCHLESS, 24 IN. DIA.	102.000 LF	600.00000		61,200.00	
0900	2416-1263054 CULVERT, CONCRETE PIPE, 3000D, TRENCHLESS, 54 IN. DIA.	198.000 LF	960.00000		190,080.00	
0910	2417-0225024 APRONS, METAL, 24 IN. DIA.	12.000 EACH	350.00000		4,200.00	
0920	2417-0225030 APRONS, METAL, 30 IN. DIA.	3.000 EACH	475.00000		1,425.00	
0930	2417-1060024 CULVERT, CORRUGATED METAL ROADWAY PIPE, 24 IN. DIA.	1,224.000 LF	45.00000		55,080.00	
0940	2417-1060030 CULVERT, CORRUGATED METAL ROADWAY PIPE, 30 IN. DIA.	372.000 LF	60.00000		22,320.00	
0950	2418-0000010 TEMPORARY STREAM DIVERSION	3.000 EACH	20,000.00000		60,000.00	
0960	2422-0360024 APRONS, UNCLASSIFIED, 24 IN. DIA.	8.000 EACH	350.00000		2,800.00	
0970	2422-0360030 APRONS, UNCLASSIFIED, 30 IN. DIA.	2.000 EACH	475.00000		950.00	
0980	2422-1722024 CULVERT, UNCLASSIFIED ENTRANCE PIPE, 24 IN. DIA.	255.000 LF	37.00000		9,435.00	

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			Dollars	Cts	Dollars	Cts
0990	2422-1723030 CULVERT, UNCLASSIFIED ROADWAY PIPE, 30 IN. DIA.	 58.000   LF	55.00000		3,190.00	
1000	2435-0254700 BARRIER INTAKE, SW-547	 2.000   EACH	14,500.00000		29,000.00	
1010	2435-0254800 BARRIER INTAKE, SW-548	 1.000   EACH	11,750.00000		11,750.00	
1020	2435-0256200 INTAKE, SW-562	 5.000   EACH	3,400.00000		17,000.00	
1030	2502-8212024 SUBDRAIN, LONGITUDINAL, (BACKSLOPE) 4 IN. DIA.	 4,950.000   LF	20.00000		99,000.00	
1040	2502-8212034 SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	 43,015.000   LF	5.35000		230,130.25	
1050	2502-8221304 SUBDRAIN OUTLET, DR-304	 196.000   EACH	140.00000		27,440.00	
1060	2503-3775048 GATE, OUTLET CONTROL, FLAP, 48 IN.	 1.000   EACH	6,200.00000		6,200.00	
1070	2505-4008120 REMOVAL OF STEEL BEAM GUARDRAIL	 915.000   LF	5.00000		4,575.00	
1080	2505-4008130 REMOVAL OF CABLE GUARDRAIL	 13,951.000   LF	2.10000		29,297.10	
1090	2505-4008300 STEEL BEAM GUARDRAIL	 175.000   LF	17.95000		3,141.25	

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			Dollars	Cts	Dollars	Cts
1100	2505-4008400 STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION	2.000 EACH	1,650.00000		3,300.00	
1110	2505-4021010 STEEL BEAM GUARDRAIL END ANCHOR, BOLTED	2.000 EACH	300.00000		600.00	
1120	2505-4021700 STEEL BEAM GUARDRAIL END TERMINAL	2.000 EACH	1,950.00000		3,900.00	
1130	2506-4984000 FLOWABLE MORTAR	237.700 CY	125.00000		29,712.50	
1140	2507-3250005 ENGINEERING FABRIC	12,372.900 SY	2.00000		24,745.80	
1150	2507-6800061 REVETMENT, CLASS E	11,791.500 TON	39.00000		459,868.50	
1160	2507-8029000 EROSION STONE	982.800 TON	40.50000		39,803.40	
1170	2510-6745850 REMOVAL OF PAVEMENT	81,983.000 SY	4.50000		368,923.50	
1180	2513-0001000 CONCRETE BARRIER, BA-100	1,014.000 LF	90.00000		91,260.00	
1190	2513-0001011 CONCRETE BARRIER, BA-101	2.000 EACH	2,400.00000		4,800.00	
1200	2513-0001020 CONCRETE BARRIER, BA-102	48.000 LF	165.00000		7,920.00	

CONTRACT SCHEDULE OF PRICES

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Vendor No.: PE320 Bid Order No.: 103  
 Contract ID No.: 97-0201-133 Letting Date: October 20, 2015  
 Primary Work Type: PCC PAVEMENT - GRADE AND NEW 10:00 A.M.  
 Primary County: WOODBURY

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts
1210	2513-0001050 CONCRETE BARRIER, BA-105	4.000 EACH	2,400.00000		9,600.00	
1220	2518-6910000 SAFETY CLOSURE	73.000 EACH	25.00000		1,825.00	
1230	2519-2000010 FENCE, CHANNEL CROSSING, TYPE A	925.000 LF	5.99000		5,540.75	
1240	2519-3280000 FENCE, FIELD	34,660.500 LF	2.44000		84,571.62	
1250	2519-3300400 FIELD FENCE BRACE PANELS	502.000 EACH	124.95000		62,724.90	
1260	2520-3350010 FIELD LABORATORY	1.000 EACH	8,000.00000		8,000.00	
1270	2527-9263109 PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	2,681.240 STA	10.50000		28,153.02	
1280	2527-9263137 PAINTED SYMBOLS AND LEGENDS, WATERBORNE OR SOLVENT-BASED	16.000 EACH	110.00000		1,760.00	
1290	2527-9263180 PAVEMENT MARKINGS REMOVED	374.350 STA	20.00000		7,487.00	
1300	2527-9263190 SYMBOLS AND LEGENDS REMOVED	16.000 EACH	125.00000		2,000.00	
1310	2528-8445110 TRAFFIC CONTROL	LUMP	LUMP		38,750.00	

CONTRACT SCHEDULE OF PRICES

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Vendor No.: PE320 Bid Order No.: 103  
 Contract ID No.: 97-0201-133 Letting Date: October 20, 2015  
 Primary Work Type: PCC PAVEMENT - GRADE AND NEW 10:00 A.M.  
 Primary County: WOODBURY

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts
1320	2528-8445113 FLAGGERS	60.000 EACH	435.00000		26,100.00	
1325	2530-5070221 REGULAR PARTIAL DEPTH HOT MIX ASPHALT FINISH PATCHES, BY AREA	560.000 SY	195.00000		109,200.00	
1330	2533-4980005 MOBILIZATION	LUMP	LUMP		702,650.00	
1340	2548-0000200 MILLED SHOULDER RUMBLE STRIPS, PCC SURFACE	392.900 STA	27.00000		10,608.30	
1350	2551-0000110 TEMP CRASH CUSHION	1.000 EACH	1,250.00000		1,250.00	
1360	2551-0000230 PERMANENT CRASH CUSHION, SEVERE USE (SU)	1.000 EACH	25,000.00000		25,000.00	
1370	2551-0000300 PERMANENT CRASH CUSHION SPARE PARTS KIT	1.000 EACH	250.00000		250.00	
1380	2599-9999009 ('LINEAR FEET' ITEM) CULVERT, 4000D CONC ROADWAY PIPE, 42 IN	376.000 LF	190.00000		71,440.00	
1390	2599-9999009 ('LINEAR FEET' ITEM) HORIZONTAL STRIP DRAIN	54,535.000 LF	1.67000		91,073.45	
1400	2599-9999009 ('LINEAR FEET' ITEM) PERMALOK, STEEL, 36 IN. DIA.	302.000 LF	285.00000		86,070.00	
1410	2599-9999009 ('LINEAR FEET' ITEM) PERMALOK, STEEL, 42 IN. DIA.	208.000 LF	330.00000		68,640.00	

CONTRACT SCHEDULE OF PRICES

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Vendor No.: PE320 Bid Order No.: 103  
 Contract ID No.: 97-0201-133 Letting Date: October 20, 2015  
 Primary Work Type: PCC PAVEMENT - GRADE AND NEW 10:00 A.M.  
 Primary County: WOODBURY

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts
1420	2599-9999009 ('LINEAR FEET' ITEM) PERMALOK, STEEL, TRENCHLESS, 36 IN. DIA.	300.000   LF	540.00000		162,000.00	
1430	2599-9999009 ('LINEAR FEET' ITEM) PERMALOK, STEEL, TRENCHLESS, 42 IN. DIA.	364.000   LF	720.00000		262,080.00	
1440	2599-9999012 ('THOUSANDS OF GALLONS' ITEM) DUST CONTROL WATERING	4,000.000   MGAL	30.00000		120,000.00	
1450	2601-2634100 MULCHING	153.000   ACRE	700.00000		107,100.00	
1460	2601-2634105 MULCHING, BONDED FIBER MATRIX	1.000   ACRE	2,650.00000		2,650.00	
1470	2601-2636043 SEEDING AND FERTILIZING (RURAL)	29.000   ACRE	495.00000		14,355.00	
1480	2601-2640350 SPECIAL DITCH CONTROL, WOOD EXCELSIOR MAT	1,356.000   SQ	9.25000		12,543.00	
1490	2601-2642100 STABILIZING CROP - SEEDING AND FERTILIZING	153.000   ACRE	275.00000		42,075.00	
1500	2601-2642120 STABILIZING CROP - SEEDING AND FERTILIZING (URBAN)	1.000   ACRE	750.00000		750.00	
1510	2601-2643110 WATERING FOR SOD, SPECIAL DITCH CONTROL, OR SLOPE PROTECTION	594.200   MGAL	60.00000		35,652.00	
1520	2601-2643300 MOBILIZATION FOR WATERING	3.000   EACH	350.00000		1,050.00	

CONTRACT SCHEDULE OF PRICES

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Vendor No.: PE320 Bid Order No.: 103  
 Contract ID No.: 97-0201-133 Letting Date: October 20, 2015  
 Primary Work Type: PCC PAVEMENT - GRADE AND NEW 10:00 A.M.  
 Primary County: WOODBURY

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts
1530	2601-2643412 TURF REINFORCEMENT MAT, TYPE  2	 1,411.000  SQ	 39.50000		 55,734.50	
1540	2601-2643414 TURF REINFORCEMENT MAT, TYPE  4	 204.000  SQ	 115.75000		 23,613.00	
1550	2602-0000020 SILT FENCE 	 86,424.000  LF	 1.45000		 125,314.80	
1560	2602-0000030 SILT FENCE FOR DITCH CHECKS 	 40,044.000  LF	 1.60000		 64,070.40	
1570	2602-0000050 SILT BASINS 	 82.000  EACH	 350.00000		 28,700.00	
1580	2602-0000071 REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS 	 63,234.000  LF	 0.10000		 6,323.40	
1590	2602-0000101 MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK 	 12,646.800  LF	 0.10000		 1,264.68	
1600	2602-0000130 TEMPORARY SEDIMENT CONTROL BASIN 	 24.000  EACH	 1,200.00000		 28,800.00	
1610	2602-0000140 MAINTENANCE OF TEMPORARY SEDIMENT CONTROL BASIN 	 24.000  EACH	 400.00000		 9,600.00	
1620	2602-0000150 STABILIZED CONSTRUCTION ENTRANCE 	 1,000.000  LF	 31.00000		 31,000.00	
1630	2602-0000212 FLOATING SILT CURTAIN (HANGING) 	 1,000.000  LF	 18.75000		 18,750.00	

CONTRACT SCHEDULE OF PRICES

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Vendor No.: PE320 Bid Order No.: 103  
 Contract ID No.: 97-0201-133 Letting Date: October 20, 2015  
 Primary Work Type: PCC PAVEMENT - GRADE AND NEW 10:00 A.M.  
 Primary County: WOODBURY

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts
1640	2602-0000240 MAINTENANCE OF FLOATING SILT CURTAIN	500.000 LF	7.50000		3,750.00	
1650	2602-0000312 PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	1,000.000 LF	3.25000		3,250.00	
1660	2602-0000320 PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA.	13,500.000 LF	3.95000		53,325.00	
1670	2602-0000350 REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE	14,500.000 LF	0.45000		6,525.00	
1680	2602-0010010 MOBILIZATIONS, EROSION CONTROL	1.000 EACH	500.00000		500.00	
1690	2602-0010020 MOBILIZATIONS, EMERGENCY EROSION CONTROL	1.000 EACH	1,000.00000		1,000.00	
SECTION 0005 ALTERNATE 'AA' OPTION 1: PCC SHOULDER BID THIS SECTION IF ALTERNATE 'AA' OPTION 1 IS CHOSEN (133) ALT GROUP AA1						
1700	2122-5190006 PAVED SHOULDER, P.C. CONCRETE, 6 IN.	28,156.500 SY	21.60000		608,180.40	
1710	2548-0000200 MILLED SHOULDER RUMBLE STRIPS, PCC SURFACE	345.500 STA	27.00000		9,328.50	
SECTION 0007 PAYMENT ADJUSTMENT INCENTIVE ITEMS						

CONTRACT SCHEDULE OF PRICES

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Vendor No.: PE320 Bid Order No.: 103  
 Contract ID No.: 97-0201-133 Letting Date: October 20, 2015  
 Primary Work Type: PCC PAVEMENT - GRADE AND NEW 10:00 A.M.  
 Primary County: WOODBURY

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts
1750	2301-7000110 PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT THICKNESS (BY SCHEDULE)	 105,000.000 EACH	 1.00000		 105,000.00	
1760	2301-7000120 PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR QM-C PCC PAVEMENT COARSENESS AND WORKABILITY FACTORS	 94,000.000 EACH	 1.00000		 94,000.00	
1770	2317-7000110 PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT SMOOTHNESS (BY SCHEDULE)	 88,000.000 EACH	 1.00000		 88,000.00	
SECTION 0009 ALTERNATE 'BB' OPTION 2: ITEMS FOR A 10'-0X6'-0X352'-0 PRCBC BID THIS SECTION IF ALTERNATE 'BB' OPTION 2 IS CHOSEN (147) ALT GROUP BB2						
1860	2104-2710020 EXCAVATION, CLASS 10, CHANNEL	 190.000 CY	 8.75000		 1,662.50	
1870	2401-6750001 REMOVALS, AS PER PLAN	 LUMP	 LUMP		 8,500.00	
1880	2402-0425030 GRANULAR BACKFILL	 104.000 CY	 55.60000		 5,782.40	
1890	2402-2720000 EXCAVATION, CLASS 20	 2,569.000 CY	 6.00000		 15,414.00	
1900	2403-0100020 STRUCTURAL CONCRETE (RCB CULVERT)	 1.300 CY	 3,250.00000		 4,225.00	

CONTRACT SCHEDULE OF PRICES

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Vendor No.: PE320 Bid Order No.: 103  
 Contract ID No.: 97-0201-133 Letting Date: October 20, 2015  
 Primary Work Type: PCC PAVEMENT - GRADE AND NEW 10:00 A.M.  
 Primary County: WOODBURY

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts
1910	2404-7775000 REINFORCING STEEL	 143.000   LB	 15.00000		 2,145.00	
1920	2415-2111006 PRECAST CONCRETE BOX CULVERT, 10 FT. X 6 FT.	 352.000   LF	 650.00000		 228,800.00	
1930	2415-2201006 PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 10 FT. X 6 FT.	 2.000   EACH	 14,750.00000		 29,500.00	
1940	2507-3250005 ENGINEERING FABRIC	 400.000   SY	 3.00000		 1,200.00	
1950	2507-6800061 REVETMENT, CLASS E	 300.000   TON	 41.75000		 12,525.00	
1960	2533-4980005 MOBILIZATION	  LUMP	  LUMP		 10,000.00	
SECTION 0010 DESIGN NO. 1516; 12X12 RCB WITH FLUME AND BASIN NHSX-020-1(147)--3H-97						
1970	2104-2710020 EXCAVATION, CLASS 10, CHANNEL	 160.000   CY	 10.00000		 1,600.00	
1980	2401-6750001 REMOVALS, AS PER PLAN	  LUMP	  LUMP		 30,000.00	
1990	2402-2720000 EXCAVATION, CLASS 20	 9,619.000   CY	 10.00000		 96,190.00	
2000	2403-0100020 STRUCTURAL CONCRETE (RCB CULVERT)	 953.500   CY	 385.00000		 367,097.50	

CONTRACT SCHEDULE OF PRICES

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Vendor No.: PE320 Bid Order No.: 103  
 Contract ID No.: 97-0201-133 Letting Date: October 20, 2015  
 Primary Work Type: PCC PAVEMENT - GRADE AND NEW 10:00 A.M.  
 Primary County: WOODBURY

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts
2010	2404-7775000 REINFORCING STEEL	161,151.000 LB	1.05000		169,208.55	
2020	2507-3250005 ENGINEERING FABRIC	320.000 SY	3.00000		960.00	
2030	2507-6800061 REVETMENT, CLASS E	260.000 TON	60.00000		15,600.00	
2040	2533-4980005 MOBILIZATION	LUMP	LUMP		75,000.00	
SECTION 0011 DESIGN NO. 1616; 8'-0X6'-0 FLUME AND BASIN FOR 66 IN. REINFORCED CONCRETE PIPE NHSX-020-1(149)--3H-97						
2050	2402-2720000 EXCAVATION, CLASS 20	200.000 CY	15.00000		3,000.00	
2060	2403-0100020 STRUCTURAL CONCRETE (RCB CULVERT)	72.200 CY	750.00000		54,150.00	
2070	2404-7775000 REINFORCING STEEL	12,996.000 LB	1.30000		16,894.80	
2080	2533-4980005 MOBILIZATION	LUMP	LUMP		10,000.00	
SECTION 0012 DESIGN NO. 1716; 6'-0 X 5'-0 FLUME AND BASIN FOR 54 IN. REINFORCED CONCRETE PIPE NHSX-020-1(149)--3H-97						
2090	2402-2720000 EXCAVATION, CLASS 20	101.000 CY	15.00000		1,515.00	
2100	2403-0100020 STRUCTURAL CONCRETE (RCB CULVERT)	67.600 CY	800.00000		54,080.00	

CONTRACT SCHEDULE OF PRICES

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Vendor No.: PE320 Bid Order No.: 103  
 Contract ID No.: 97-0201-133 Letting Date: October 20, 2015  
 Primary Work Type: PCC PAVEMENT - GRADE AND NEW 10:00 A.M.  
 Primary County: WOODBURY

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts
2110	2404-7775000 REINFORCING STEEL	10,522.000  LB	1.30000		13,678.60	
2120	2533-4980005 MOBILIZATION	LUMP	LUMP		10,000.00	
SECTION 0013 DESIGN NO. 1816; 8'-0X8'-0 RCB WITH FLUME AND BASIN NHSX-020-1(149)--3H-97						
2130	2104-2710020 EXCAVATION, CLASS 10, CHANNEL	95.000  CY	15.00000		1,425.00	
2140	2401-6750001 REMOVALS, AS PER PLAN	LUMP	LUMP		20,000.00	
2150	2402-2720000 EXCAVATION, CLASS 20	14,361.000  CY	7.00000		100,527.00	
2160	2403-0100020 STRUCTURAL CONCRETE (RCB CULVERT)	580.000  CY	440.00000		255,200.00	
2170	2404-7775000 REINFORCING STEEL	95,407.000  LB	1.10000		104,947.70	
2180	2507-3250005 ENGINEERING FABRIC	200.000  SY	3.00000		600.00	
2190	2507-6800061 REVETMENT, CLASS E	150.000  TON	60.00000		9,000.00	
2200	2533-4980005 MOBILIZATION	LUMP	LUMP		30,000.00	

SECTION 0014 TRAFFIC SIGNS

NHSX-020-1(170)--3H-97

CONTRACT SCHEDULE OF PRICES

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Vendor No.: PE320 Bid Order No.: 103  
 Contract ID No.: 97-0201-133 Letting Date: October 20, 2015  
 Primary Work Type: PCC PAVEMENT - GRADE AND NEW 10:00 A.M.  
 Primary County: WOODBURY

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts
2210	2524-6765010 REMOVE AND REINSTALL SIGN AS PER PLAN	4.000 EACH	200.00000		800.00	
2220	2524-6765110 REMOVAL OF TYPE A SIGN	22.000 EACH	75.00000		1,650.00	
2230	2524-9089110 DELINEATOR, RIGID - TYPE IA	132.000 EACH	80.00000		10,560.00	
2240	2524-9210000 MILEPOST MARKERS	6.000 EACH	175.00000		1,050.00	
2250	2524-9275222 WOOD POSTS FOR TYPE A OR B SIGNS, 4 IN. X 6 IN.	68.000 LF	15.00000		1,020.00	
2260	2524-9276010 PERFORATED SQUARE STEEL TUBE POSTS	653.000 LF	12.00000		7,836.00	
2270	2524-9276021 PERFORATED SQUARE STEEL TUBE POST ANCHOR, BREAK-AWAY SOIL INSTALLATION	33.000 EACH	210.00000		6,930.00	
2280	2524-9276027 PERFORATED SQUARE STEEL TUBE POST ANCHOR, TRIANGULAR SLIP BASE ASSEMBLY	8.000 EACH	715.00000		5,720.00	
2290	2524-9290009 SIGN MOUNTING BRACKETS, SPECIAL	6.000 EACH	200.00000		1,200.00	
2300	2524-9325001 TYPE A SIGNS, SHEET ALUMINUM	347.000 SF	18.00000		6,246.00	
2310	2528-8445110 TRAFFIC CONTROL	LUMP	LUMP		3,500.00	

CONTRACT SCHEDULE OF PRICES

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Vendor No.: PE320 Bid Order No.: 103  
 Contract ID No.: 97-0201-133 Letting Date: October 20, 2015  
 Primary Work Type: PCC PAVEMENT - GRADE AND NEW 10:00 A.M.  
 Primary County: WOODBURY

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price Dollars   Cts	Bid Amount Dollars   Cts
2320	2533-4980005 MOBILIZATION	 LUMP	 LUMP	 6,000.00
TOTAL BID				29,038,007.91

# A d d e n d u m

Iowa Department of Transportation

Date of Letting: October 20, 2015

Office of Contracts

Date

of Addendum: September 16, 2015

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
103	97-0201-133	PCC PAVEMENT - GRADE AND NEW	WOODBURY	NHSX-020-1(130)--3H-97 NHSX-020-1(133)--3H-97 NHSX-020-1(147)--3H-97 NHSX-020-1(149)--3H-97 NHSX-020-1(170)--3H-97	20OCT103.A01

Make the following changes to the PROPOSAL SCHEDULE OF PRICES:

For NHSX-020-1(133)--3H-97:

From:

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Section 0005 ALTERNATE 'AA' OPTION 1: PCC SHOULDER  
BID THIS SECTION IF ALTERNATE 'AA' OPTION 1 IS CHOSEN (133)  
Alt Group Y  
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To:

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Section 0005 ALTERNATE 'AA' OPTION 1: PCC SHOULDER  
BID THIS SECTION IF ALTERNATE 'AA' OPTION 1 IS CHOSEN (133)  
Alt Group AA1  
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And

From:

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Section 0006 ALTERNATE 'AA' OPTION 2: PCC SHOULDER  
BID THIS SECTION IF ALTERNATE 'AA' OPTION 2 IS CHOSEN (133)  
Alt Group Y  
-----

To:

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Section 0006 ALTERNATE 'AA' OPTION 2: PCC SHOULDER  
BID THIS SECTION IF ALTERNATE 'AA' OPTION 2 IS CHOSEN (133)  
Alt Group AA2  
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For NHSX-020-1(147)--3H-97:

From:

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Section 0008 ALTERNATE 'BB' OPTION 1: ITEMS FOR A 10'-0X6'-0X334'-0 RCB  
BID THIS SECTION IF ALTERNATE 'BB' OPTION 1 IS CHOSEN (147)  
Alt Group Y  
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To:

-----  
Section 0008 ALTERNATE 'BB' OPTION 1: ITEMS FOR A 10'-0X6'-0X334'-0 RCB  
BID THIS SECTION IF ALTERNATE 'BB' OPTION 1 IS CHOSEN (147)  
Alt Group BB1  
-----

And

From:

-----  
Section 0009 ALTERNATE 'BB' OPTION 2: ITEMS FOR A 10'-0X6'-0X352'-0 PRCBC  
BID THIS SECTION IF ALTERNATE 'BB' OPTION 2 IS CHOSEN (147)  
Alt Group Y  
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To:

-----  
Section 0009 ALTERNATE 'BB' OPTION 2: ITEMS FOR A 10'-0X6'-0X352'-0 PRCBC  
BID THIS SECTION IF ALTERNATE 'BB' OPTION 2 IS CHOSEN (147)  
Alt Group BB2  
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# A d d e n d u m

Iowa Department of Transportation  
Office of Contracts

Date of Letting: October 20, 2015  
Date of Addendum: September 29, 2015

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
103	97-0201-133	PCC PAVEMENT - GRADE AND NEW	WOODBURY	NHSX-020-1(130)--3H-97 NHSX-020-1(133)--3H-97 NHSX-020-1(147)--3H-97 NHSX-020-1(149)--3H-97 NHSX-020-1(170)--3H-97	20OCT103.A02

Make the following changes to the PROPOSAL SPECIAL PROVISIONS LIST & TEXT:

Add the attached DS-15032

DEVELOPMENTAL SPECIFICATIONS FOR MASS CONCRETE CONTROL OF  
HEAT OF HYDRATION  
Effective Date: October 20, 2015

Make the following change to the plans:

NHSX-020-1(130)--3H-97

Replace SHEET NUMBER 1, SHEET NUMBER 4, SHEET NUMBER 7, SHEET NUMBER 9,  
SHEET NUMBER 10, SHEET NUMBER 40, SHEET NUMBER 45, SHEET NUMBER 46.

With the attached:

SHEET NUMBER 1, SHEET NUMBER 4, SHEET NUMBER 7, SHEET NUMBER 9, SHEET  
NUMBER 10, SHEET NUMBER 40, SHEET NUMBER 45, SHEET NUMBER 46

Summary of Changes:

Sheet No. 1

Change the reference of The Iowa Department of Transportation Standard Specifications For Highway and Bridge Construction from Series 2012 to Series 2015.

Sheet No. 4

1. Under the Specifications Notes - Replace the reference of The Iowa Department of Transportation Standard Specifications For Highway and Bridge Construction from Series 2012 to Series 2015.
2. Change the Developmental Specification Number for "Developmental Specifications for Mass Concrete - Control of Heat of Hydration" from DS-12070 to DS-15032.
3. Change the Developmental Specification Number for "Developmental Specifications for High Performance Concrete for Structures" from DS-12071 to DS-15033.

Sheet No. 7

1. Added the 13'-6" dimension between the centerline of the existing bridge to the centerline of Mainline US 20.
2. Added the 16'-10 +/-" dimension between the centerline of the existing bridge and the edge of the existing bridge deck.

Sheet No. 9

1. In the Cofferdam Section, removed the dimensions between the edge of the footing and the outside edge of the seal coat.
2. In the Cofferdam Section, removed the 22'-0" width of the seal coat.

Sheet No. 10

Change the Pier Note in reference to beveled keys from 3 x 10 x 1'-0 to 3 x 12 x 1'-0.

Sheet No. 40

1. Under the Specifications Notes - Replace the reference of The Iowa Department of Transportation Standard Specifications For Highway and Bridge Construction from Series 2012 to Series 2015.
2. Change the Developmental Specification Number for "Developmental Specifications for Mass Concrete - Control of Heat of Hydration" from DS-12070 to DS-15032.
3. Change the Developmental Specification Number for "Developmental Specifications for High Performance Concrete for Structures" from DS-12071 to DS-15033.

Sheet No. 45

1. In the Cofferdam Section, removed the dimensions between the edge of the footing and the outside edge of the seal coat.
2. In the Cofferdam Section, removed the 22'-0" width of the seal coat.

Sheet No. 46

Change the Pier Note in reference to beveled keys from 3 x 10 x 1'-0 to 3 x 12 x 1'-0.



**DEVELOPMENTAL SPECIFICATIONS  
FOR  
MASS CONCRETE – CONTROL OF HEAT OF HYDRATION**

**Effective Date  
October 20, 2015**

**THE STANDARD SPECIFICATIONS, SERIES 2015, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE DEVELOPMENTAL SPECIFICATIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.**

**15032.01 DESCRIPTION.**

Produce a structure free of shrinkage cracks that would be a result of heat of hydration during the curing of large concrete cross-sections. Accomplish this through appropriate concrete mix design and management of concrete temperature and temperature differential. Structural mass concrete is defined as any concrete footing with a least dimension greater than 5 feet or other concrete placements with a least dimension greater than 4 feet. Additional constraints are required on placements with a least dimension greater than 6.5 feet. This specification does not apply to concrete drilled shafts.

Apply Section 2403 and Division 41 of the Standard Specifications with the following modifications.

**15032.02 MATERIALS.**

- A. Cement shall be Type I, II, IP, or IS.
- B. Use any combination of Ground Granulated Blast Furnace Slag or Class F fly ash. Class C fly ash may also be used with a maximum substitution of 20%. The maximum total substitution of Portland cement shall not exceed 50%, including the amount in the blended cement.
- C. Cementitious content shall be a minimum of 560 pounds per cubic yard.
- D. Maximum water to cementitious ratio shall be 0.45.
- E. Air entrainment shall be used. To improve workability and aid in air entrainment, water reducing or retarding admixtures may be used. A mid range water reducing admixture may be used and the slump shall be increased to six inches maximum.

**15032.03 CONSTRUCTION.**

- A. **Thermal Control Plan.**  
Develop and submit a written Thermal Control Plan (TCP) to the Engineer describing the procedures that will be used during the period of heat dissipation following concrete placement, so the temperature differential between the interior of the section and the outside surface of the section does not exceed the restrictions in Article DS-15032.03, B. Submit the TCP at least 30 calendar days before the first intended structural mass concrete placement.

Compliance with this specification may result in long cooling times. Consider options to control heat of hydration that are compatible with their desired construction schedule and erection procedures.

Do not place concrete covered by this specification until the TCP has received written approval by the Engineer and equipment and materials necessary to facilitate the plan are on site and ready for use. Provide and install temperature sensing devices according to Article DS-15032.03, B, 3.

The location of construction joints shall be as shown in the plans.

For mass concrete placements with a least dimension of less than or equal to 6.5 feet the TCP procedures may include, but are not limited to, the following:

- Cooling component materials prior to addition to the mix to reduce the temperature of the concrete while in its plastic state.
- Adding crushed or shaved ice to the mix water.
- Sprinkle coarse aggregate with water or wet the stockpile.
- Warming concrete during cold weather placements (ie: using hot water when batching, ground heater loops or boiler loops after placement, etc).
- Controlling rate of concrete placement (low lifts).
- Insulating the forms and the surface of the concrete to prevent temperature differential.
- Placing concrete at times of day when the ambient temperature is lowest (in summer) or highest (in winter).
- Other acceptable methods that may be developed by the Contractor and approved in writing by the Engineer.

For mass concrete placements with a least dimension of greater than 6.5 feet, the TCP shall be developed by a Professional Engineer, licensed in the State of Iowa and competent in the modeling, design, and temperature control of concrete in mass elements (TC Engineer). The TC Engineer shall submit a list containing at least three mass concrete projects, of similar dimension and thermal control requirements to those shown on the plans, completed in the last 3 years. In the list of projects include names and phone numbers of owner's representatives who can verify the TC Engineer's participation on those projects. The TC Engineer shall follow the procedure outlined in Section 207.4R-05 of the ACI Manual of Cooling and Insulating Systems for Mass Concrete to formulate, implement, administer, and monitor a temperature control plan, making adjustments as necessary to ensure compliance with the contract documents.

The TCP shall include, but not be limited to the following:

1. Based on the concrete mix design, determine by lab testing the adiabatic heat generation for the concrete mix to be used.
2. Proposed methods to achieve required concrete temperature and control concrete temperature differential through concrete mix design and construction practices for temperature control to prevent thermal cracking during both warm and cold weather.
3. Design of a cooling system consisting of non-corrosive piping to be embedded in the structural mass concrete for all mass concrete placements that are below water level within the limits of the river.
4. Provide information on the temperature sensing and recording equipment to be used and details of installation locations of the temperature probes for each planned mass concrete placement.
5. Mass concrete placement plan to ensure prevention of concrete cold joints.

6. Monitoring Plan to control temperature gradient for both warm and cold weather placements.

**B. Thermal Control.**

1. **Concrete Temperature Limits.**

The concrete temperature at time of placement shall not exceed 70°F and shall not be less than 40°F. The maximum concrete temperature during the period of heat dissipation shall not exceed 160°F.

Maximum concrete temperature at time of placement may be based on the TCP developed by the TC Engineer, in accordance with Article DS-15032.03, A.

2. **Temperature Differential Restrictions**

The temperature differential between the interior of the section and the outside surface of the section shall not exceed the limits in the following table for placements with least dimensions of 6.5 feet or less):

Hours after placement	Maximum temperature differential °F
0-24	20
24-48	30
48-72	40
>72	50

Thermal control of each placement shall be maintained until the temperature of the interior is within 50°F of the average outside air temperature. The average outside air temperature shall be determined by averaging the daily high and low temperatures over the preceding seven calendar days.

3. **Temperature Sensing and Recording**

For each placement of structural mass concrete, two temperature sensors shall be installed at each of the following locations (for a total of eight temperature sensors):

- Center of the placement,
- Midpoint of the side which is the shortest distance from the center (2 inch to 4 inch cover),
- Midpoint of the top surface (2 inch to 4 inch cover), and
- Air temperature.

The purpose for two sensors at each location is to provide a primary and secondary backup.

Temperatures shall be electronically recorded automatically by an approved recorder furnished by the Contractor and shall be capable of continuously recording a minimum of one reading per hour for the duration of the mass concrete temperature monitoring period. Sensors and recorder shall be accurate to within +/- 2°F in the temperature range of 32°F to 185°F. Provide a backup temperature sensing system, which shall include both backup temperature sensors and backup temperature readout device. Back-up system is intended to be used to complete the monitoring of a placement should the primary system fail. Primary system shall be repaired or replaced before the commencement of the next placement.

**C. Production Concrete.**

1. The TC Engineer or their representative shall inspect and approve the installation of monitoring devices and verify the process for recording temperature data is effective for the first placement of each size and type mass component. Qualifications of all technicians employed to inspect or monitor mass concrete placements shall be submitted to the Engineer for approval. For placements other than the first, an employee, approved by the TC Engineer

as qualified to inspect monitor device installation, shall be designated to: 1) review temperature data, 2) be in contact at all times with the TC Engineer if adjustments must be made as a result of the temperature differential being exceeded, and 3) immediately implement adjustments to temperature control measures as directed by the TC Engineer. Recorded temperature data shall be reviewed at intervals of no greater than 4 hours. Recording of temperature data shall begin when the mass concrete placement is complete and shall continue until the maximum temperature differential (not maximum temperature) is reached and a decreasing temperature differential is confirmed as defined in the TCP. If conditions change, such as a drop in the ambient temperature or a change in insulation which would result in an increase in the temperature differential, the recording of temperature data shall be resumed. A copy of all recorded temperature data shall be furnished to the Engineer as they are determined, and a final report shall be furnished within 3 days of completion of monitoring of each element.

Only use approved mixes for production concrete.

2. If the temperature differential within any structural mass concrete placement exceeds the limits in Article DS-15032.03, B , immediate corrective action as directed by the Contractor or the TC Engineer shall be taken, future placement of structural mass concrete will be suspended, and a revised TCP shall be submitted to the Engineer for approval. Do not resume placement of mass concrete without written approval from the Engineer.

When mass concrete temperature differentials are exceeded, all analyses and test results deemed necessary by the Engineer shall be provided for determining the structural integrity and durability of the mass concrete element, to the satisfaction of the Engineer. The analyses and/or test results shall be provided at no additional cost to the Contracting Authority and without additional time to be granted.

Based on the analyses and test results, a determination of corrective action will be made by the Engineer which may include, but not be limited to, price adjustment, epoxy injection of thermal cracks, a combination of both, or removal of the non-complying concrete.

**15032.04 METHOD OF MEASUREMENT.**

None.

**15032.05 BASIS OF PAYMENT.**

Costs for complying with this specification shall be considered incidental to the contract unit price for structural concrete. Article 2403.05, A, 4 shall not apply to mass concrete. Protection of mass concrete shall be included in the contract unit price for Structural Concrete.

BRIDGE REPLACEMENT - PPCB  
LETTING DATE 10/20/2015  
NHSX-020-1(130)--3H-97

**LEGEND**

- INTERSTATE HIGHWAY
- PRIMARY HIGHWAY-DIVIDED
- PRIMARY HIGHWAY
- PORTLAND CEMENT CONCRETE ROAD
- ASPHALT ROAD
- BITUMINOUS ROAD
- GRAVEL ROAD
- EARTHEN ROAD
- INTERSTATE HIGHWAY
- UNITED STATES HIGHWAY
- STATE HIGHWAY
- COUNTY HIGHWAY
- RAILROAD
- PIPELINE
- AIRPORT
- HYDROLOGY
- BRIDGE
- STATE BOUNDARY
- COUNTY BOUNDARY
- CORPORATE BOUNDARY
- TOWNSHIP LINE
- SECTION LINE
- ROAD NAMES
- UNINCORPORATED PLACE

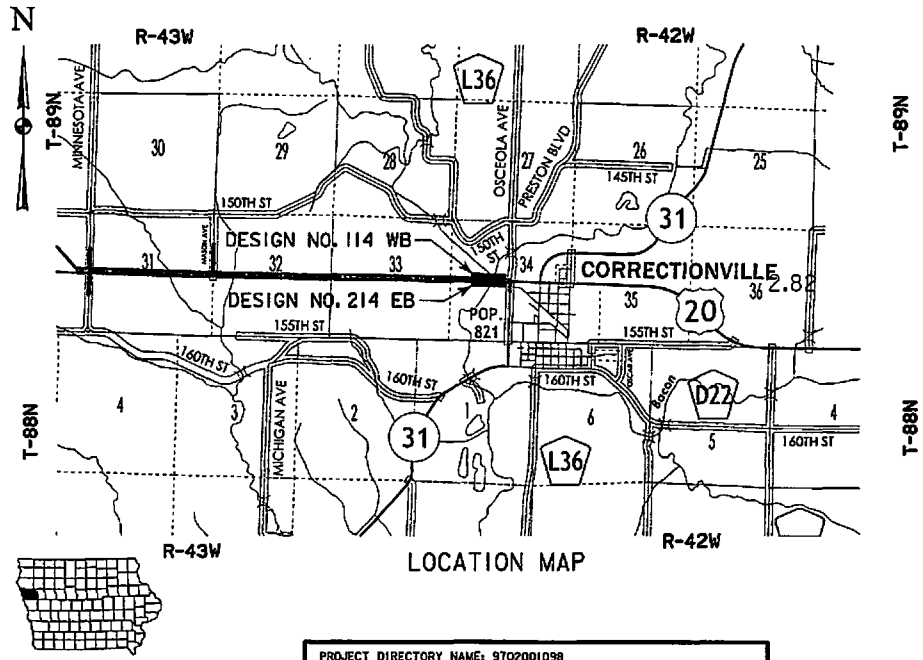


**IOWA DOT**  
Highway Division  
PLANS OF PROPOSED IMPROVEMENTS ON THE  
**PRIMARY ROAD SYSTEM**  
WOODBURY COUNTY

**BRIDGE REPLACEMENT-PPCB**  
**U.S. 20 WB AND EB OVER LITTLE SIOUX RIVER**  
**0.4 MILES WEST OF IA 31**

THE IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SERIES 2015, PLUS APPLICABLE GENERAL SUPPLEMENTAL SPECIFICATIONS, DEVELOPMENTAL SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS SHALL APPLY TO CONSTRUCTION WORK ON THIS PROJECT.

DESIGN NO. 114 AND 214



**DESIGN DATA RURAL**  
REFER TO INDIVIDUAL SITUATION PLANS FOR TRAFFIC DATA INFORMATION

ENGLISH STANDARD BRIDGE PLANS		
STANDARD	ISSUED	REVISED

REVISIONS

TOTAL SHEETS	
	84
PROJECT NUMBER	
NHSX-020-1(130)--3H-97	
R.O.W. PROJECT NUMBER	
PROJECT IDENTIFICATION NUMBER	
98-97-020-010-01	

INDEX OF SHEETS	
NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATE SHEET - DESIGN NO. 114
3 - 37	BRIDGE DESIGN NO. 114
38	ESTIMATE SHEET - DESIGN NO. 214
39 - 73	BRIDGE DESIGN NO. 214
SPS.1 - SPS.6	SOIL PROFILE SHEET - DESIGN NO. 114 AND DESIGN 214
C.1	ESTIMATE SHEET FOR ROADWAY
MIT.1 - MIT.2	ROCK RIFFLE AND QUANTITY SHEETS
U.1 - U.2	BRIDGE APPROACH SHEETS

**IOWA ONE CALL**  
1-800-292-8989  
www.iowaonecall.com

**STANDARD ROAD PLANS**

INDEX OF SEALS		
SHEET NO.	NAME	TYPE
1	KEVIN M. PLACZEK	STRUCTURAL
5 & 41	DAVID J. MULHOLLAND	HYDRAULICS
SPS.1	ROBERT STANLEY	GEOTECHNICAL
C.1	PAUL W. FLATTERY	ROADWAY
MIT.1	CHIN-TA TSAI	ROADWAY

**STRUCTURAL DESIGN**

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: *Kevin M. Placzek* Date: SEPTEMBER 25, 2015

Printed or Typed Name: Kevin M. Placzek

My license renewal date is December 31, 2015

Pages or sheets covered by this seal: 1 - 73

PROJECT DIRECTORY NAME: 9702001098

**GENERAL NOTES:**

THIS DESIGN IS CARRY WEST BOUND TRAFFIC FOR THE REPLACEMENT OF THE EXISTING 424'x28' CONTINUOUS I-BEAM BRIDGE, DESIGN NO. 1556, WHICH CARRIES BOTH EAST BOUND AND WEST BOUND TRAFFIC.

REMOVALS SHALL BE IN ACCORDANCE WITH SECTION 2401 OF THE STANDARD SPECIFICATIONS.

THE LUMP SUM BID FOR "REMOVAL OF EXISTING STRUCTURES" SHALL INCLUDE 424'x28' CONTINUOUS I-BEAM BRIDGE.

COPIES OF ORIGINAL DESIGN PLANS WILL BE MADE AVAILABLE TO THE CONTRACTOR. CONTACT THE OFFICE OF CONTRACTS - HIGHWAY DIVISION - IOWA D.O.T. - AMES. DIMENSIONS SHOWN ON THESE PLANS ARE BASED ON DESIGN PLANS (ORIGINAL DESIGN NO. 1556).

FAINT LINES ON PLANS INDICATE THE EXISTING STRUCTURE.

UTILITY COMPANIES WHOSE FACILITIES ARE SHOWN ON THE PLANS OR KNOWN TO BE WITHIN THE CONSTRUCTION LIMITS SHALL BE NOTIFIED BY THE CONTRACTOR OF THE CONSTRUCTION STARTING DATE.

KEYWAY DIMENSIONS SHOWN ON THE PLANS ARE BASED ON NOMINAL DIMENSIONS UNLESS STATED OTHERWISE. IN ADDITION, THE BEVEL USED ON THE KEYWAY SHALL BE LIMITED TO A MAXIMUM OF 10 DEGREES FROM VERTICAL.

THIS BRIDGE IS DESIGNED FOR HL-93 LOADING, PLUS 20 LBS. PER SQUARE FOOT OF ROADWAY FOR FUTURE WEARING SURFACE.

A SCRAPE SAMPLE WAS TAKEN FROM AN AREA OF THIS BRIDGE TO GET AN INDICATION OF THE EXISTENCE OF AND LEVEL OF TOTAL CHROMIUM AND TOTAL LEAD. ANALYSIS OF TOTAL LEAD ON THIS SAMPLE WAS 1500 PARTS PER MILLION (PPM). ANALYSIS OF TOTAL CHROMIUM ON THIS SAMPLE WAS 581 PPM. THESE ANALYSES SHOW THE EXISTENCE OF THESE TWO TOXIC CONSTITUENTS. LEVELS INDICATED BY THESE TESTS COULD CREATE CONDITIONS ABOVE REGULATORY LIMITS FOR HEALTH AND SAFETY REQUIREMENTS. NO OTHER CONSTITUENTS WERE ANALYZED. THE BIDDER SHOULD NOT RELY ON THE DEPARTMENT'S TESTING AND ANALYSIS FOR ANY PURPOSE OTHER THAN AS AN INDICATION OF THE EXISTENCE OF THESE TWO TOXIC CONSTITUENTS.

IT SHALL BE THE BRIDGE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SITES FOR EXCESS EXCAVATED MATERIAL. NO PAYMENT FOR OVERHAUL WILL BE ALLOWED FOR MATERIAL HAULED TO THESE SITES.

CONCRETE BARRIER RAILS PLACED USING THE SLIPFORM METHOD WILL REQUIRE THE USE OF A CLASS BR CONCRETE IN ACCORDANCE WITH ARTICLE 2513.03, A, 2 OF THE STANDARD SPECIFICATIONS. CAST-IN-PLACE BARRIER RAILS SHALL USE HIGH PERFORMANCE CONCRETE. CLASS B CONCRETE IS NOT PERMITTED FOR CONCRETE BARRIER RAILS (CAST-IN-PLACE OR SLIPFORMED METHOD).

THE COST OF PREFORMED EXPANSION JOINT FILLER, FURNISHING AND PLACING SUBDRAIN (INCLUDING EXCAVATION), FLOODABLE BACKFILL, POROUS BACKFILL, AND COST OF FURNISHING AND PLACING CONCRETE SEALER IS TO BE INCLUDED IN THE PRICE BID FOR "HIGH PERFORMANCE STRUCTURAL CONCRETE".

THESE BRIDGE PLANS LABEL ALL REINFORCING STEEL WITH ENGLISH NOTATION (5ol IS 1/2 INCH DIAMETER BAR). ENGLISH REINFORCING STEEL RECEIVED IN THE FIELD MAY DISPLAY THE FOLLOWING "BAR DESIGNATION". THE "BAR DESIGNATION" IS THE STAMPED IMPRESSION ON THE REINFORCING BARS, AND IS EQUIVALENT TO THE BAR DIAMETER IN MILLIMETERS.

ENGLISH SIZE:	3	4	5	6	7	8	9	10	11
BAR DESIGNATION:	10	13	16	19	22	25	29	32	36

ALL REINFORCING BARS AND BARS NOTED AS DOWELS SUPPLIED FOR THIS STRUCTURE SHALL BE DEFORMED REINFORCEMENT UNLESS OTHERWISE NOTED OR SHOWN.

THE CONTRACTOR SHALL CONTACT THE USGS AT LEAST 2 WEEKS BEFORE THE PRECONSTRUCTION MEETING. THIS WILL ALLOW A REPRESENTATIVE FROM THE USGS TO ATTEND THIS MEETING AND SCHEDULE THE RELOCATION OF THE GAGING STATION ON THE EXISTING BRIDGE. USGS PHONE: 712-323-8024.

THE ROAD WILL BE OPEN TO TRAFFIC ON THE EXISTING BRIDGE DURING CONSTRUCTION IN 2015, THE ROAD WILL BE CLOSED TO TRAFFIC IN 2016, AND THE ROAD WILL BE OPEN TO TRAFFIC ON THE NEW WEST BOUND BRIDGE DURING CONSTRUCTION IN 2017 AS INDICATED IN THE TRAFFIC CONTROL PLAN. REFER TO THE TRAFFIC CONTROL PLAN IN PROJECT NO. NMSX-020-1(133)-3H-97.

CAST IN ONE PIECE STEEL PILE POINTS ARE REQUIRED FOR ABUTMENTS AND PIERS IN ACCORDANCE WITH ARTICLE 4167.02 OF THE CURRENT STANDARD SPECIFICATIONS AND MATERIALS I.M. 466.

THE CONTRACTOR SHALL NOTE THE STANDARD ABUTMENT DETAILS HAVE BEEN MODIFIED TO OFFSET THE ABUTMENT FOOTING FROM THE WINGWALL AND THE ABUTMENT FOOTING FROM THE BACKWALL TO AID IN TYING THE REINFORCING STEEL BETWEEN THE FOOTING TO WINGWALL AND THE FOOTING TO BACKWALL.

**GENERAL NOTES (CONT.):**

GUARDRAIL AND APPROACH BARRIERS ARE TO BE PLACED BY PROJECT NMSX-020-1(133)-3H-97.

THE APPROACH FILLS AS SHOWN ARE NOT A PART OF THIS CONTRACT, BUT ARE TO BE IN PLACE BEFORE ABUTMENT PILES ARE DRIVEN. THE BRIDGE CONTRACTOR IS TO LEVEL OFF AND SHAPE THE BERMS TO THE ELEVATIONS AND DIMENSIONS SHOWN. DRESSING OF SLOPES OUTSIDE THE BRIDGE AREA NOT DISTURBED BY THE BRIDGE CONTRACTOR SHALL BE PAID FOR AS EXTRA WORK.

CONCRETE SEALER IS TO BE APPLIED TO THE EXPOSED BRIDGE SEAT SURFACE AT THE ABUTMENTS.

THE BRIDGE CONTRACTOR SHALL PREBORE HOLES FOR ABUTMENT PILES. HOLES SHALL BE BORED TO THE ELEVATIONS SHOWN ON THE "LONGITUDINAL SECTION ALONG CENTERLINE ROADWAY" ON DESIGN SHEETS 5. PILES SHALL BE DRIVEN THROUGH THE HOLES TO AT LEAST THE SPECIFIED DESIGN BEARING.

THESE BRIDGE PLANS DO NOT CONTAIN ROAD SHEETS FOR THE PROJECT SHOWN. ROAD PLANS FOR THE PROJECT HAVE BEEN TIED TO THE BRIDGE PLANS THROUGH THE CONTRACT LETTING PROCESS. THE TIED ROAD PLANS, PROJECT NO. NMSX-020-1(133)-3H-97, CONTAIN 404 PERMIT INFORMATION AND THE POLLUTION PREVENTION PLAN.

DURING CONSTRUCTION OF THIS PROJECT THE BRIDGE CONTRACTOR WILL BE REQUIRED TO COORDINATE OPERATIONS WITH THOSE OF OTHER CONTRACTORS WORKING WITHIN THE SAME AREA. OTHER WORK IN PROGRESS DURING THE SAME PERIOD OF TIME WILL INCLUDE, BUT IS NOT LIMITED TO, CONSTRUCTION OF THE FOLLOWING PROJECTS:

- NMSX-020-1(134)-3H-97 TRAFFIC SIGNS
- NMSX-020-1(147)-3H-97 RCB CULVERT REPLACEMENT
- NMSX-020-1(149)-3H-97 STRUCTURES-MISCELLANEOUS

**SPECIFICATIONS:**

DESIGN: AASHTO LRFD 6th Ed, SERIES OF 2012, EXCEPT AS NOTED IN THE CURRENT IOWA BRIDGE DESIGN MANUAL.

CONSTRUCTION: IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SERIES 2015, PLUS APPLICABLE GENERAL SUPPLEMENTAL SPECIFICATIONS, DEVELOPMENTAL SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS SHALL APPLY TO CONSTRUCTION WORK ON THIS PROJECT.

THE DEVELOPMENTAL SPECIFICATION, DS-15032, "DEVELOPMENTAL SPECIFICATIONS FOR MASS CONCRETE - CONTROL OF HEAT OF HYDRATION" SHALL APPLY TO WORK ON THIS PROJECT.

THE DEVELOPMENTAL SPECIFICATIONS, DS-15033, FOR HIGH PERFORMANCE CONCRETE FOR STRUCTURES SHALL APPLY TO WORK ON THIS PROJECT.

**DESIGN STRESSES:**

DESIGN STRESSES FOR THE FOLLOWING MATERIALS ARE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, LRFD 6th Ed, SERIES OF 2012, EXCEPT AS NOTED IN THE CURRENT IOWA BRIDGE DESIGN MANUAL.

REINFORCING STEEL IN ACCORDANCE WITH LRFD AASHTO SECTION 5, GRADE 60.

CONCRETE IN ACCORDANCE WITH LRFD AASHTO SECTION 5, f'c = 4,000 PSI, EXCEPT PRESTRESSED BEAM CONCRETE AS NOTED.

BRIDGE DECK CONCRETE f'c = 4,000 PSI.

PRESTRESSED CONCRETE BEAMS, SEE DESIGN SHEETS 26- 27.

STRUCTURAL STEEL IN ACCORDANCE WITH LRFD AASHTO SECTION 6. ASTM A709 GRADE 36, (AASHTO M20 GRADE 36).

**SHOP DRAWING SUBMITTALS**

SHOP DRAWINGS SHALL BE SUBMITTED FOR THE FOLLOWING ITEMS SHOWN IN THE TABLE BELOW. NOTE ADDITIONAL SHOP DRAWINGS MAY BE REQUIRED IN ACCORDANCE WITH ARTICLE 1105.03 OF THE STANDARD SPECIFICATIONS.)

SUBMITTAL REQUIREMENTS FOR SHOP DRAWINGS SHOULD BE IN ACCORDANCE WITH ARTICLE 1105.03, OF THE STANDARD SPECIFICATIONS, FOR HIGHWAY AND BRIDGE CONSTRUCTION OF THE IOWA DEPARTMENT OF TRANSPORTATION.

1	STRUCTURAL STEEL
2	BEARINGS
3	STEEL EXTRUSION JOINT WITH NEOPRENE

**BRIDGE DECK DIMENSIONS TABLE**

	ITEM	UNITS	QUANTITY
1	DECK LENGTH	L.F.	489.8
2	DECK WIDTH	L.F.	43.2
3	DECK AREA	S.F.	21,144.6

1. DECK LENGTH IS MEASURED FROM  $\epsilon$  OF EXPANSION JOINT AT THE WEST ABUTMENT TO THE  $\epsilon$  OF EXPANSION JOINT AT THE EAST ABUTMENT ALONG THE  $\epsilon$  US20 WESTBOUND APPROACH ROADWAY.
2. DECK WIDTH IS MEASURED FROM OUT-TO-OUT OF DECK PERPENDICULAR TO THE  $\epsilon$  US20 WESTBOUND APPROACH ROADWAY.
3. DECK AREA IS TO BE BASED ON THE TABULATED DECK AREAS.

DESIGN FOR 30° SKEW L.A.

**486'-0" X 40'-0" PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGE**

121'-0" END SPANS                      122'-0" INTERIOR SPANS

**GENERAL NOTES**

STATION 20813+99.07                      JULY 2015

**WOODBURY COUNTY**

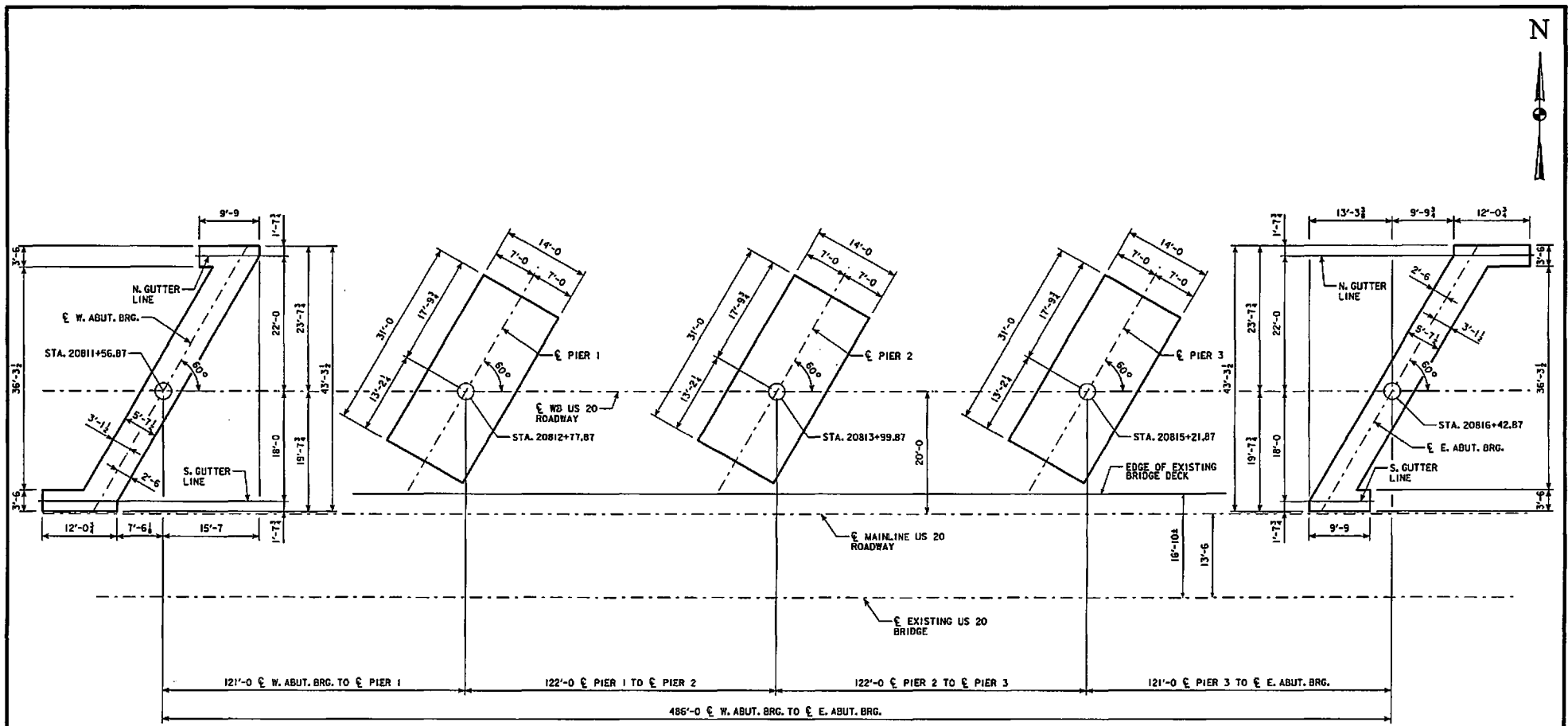
IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

DESIGN SHEET NO. 3 OF 36    FILE NO. 30568    DESIGN NO. 114



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208 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-965-0420    Job No. 10423.01

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STAKING DIAGRAM

DESIGN FOR 30° SKEW L.A.  
**486'-0" X 40'-0" PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGE**  
 121'-0" END SPANS      122'-0" INTERIOR SPANS  
**STAKING DIAGRAM**  
 STATION 20813+99.87      JULY 2015  
**WOODBURY COUNTY**  
 IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION  
 DESIGN SHEET NO. 6 OF 36      FILE NO. 30568      DESIGN NO. 114

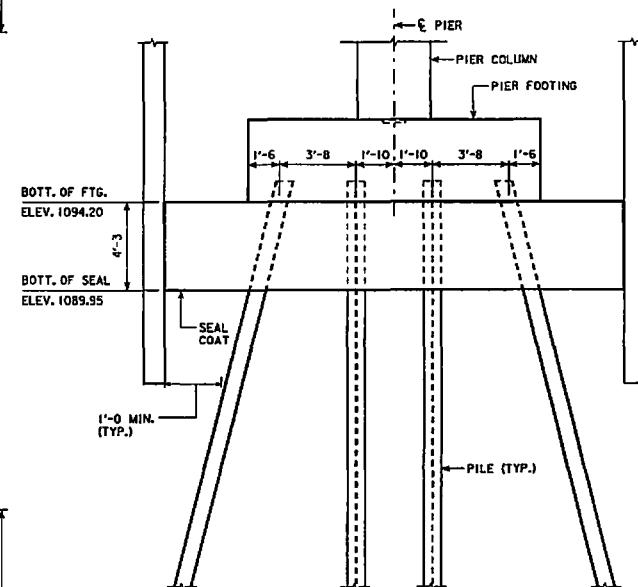
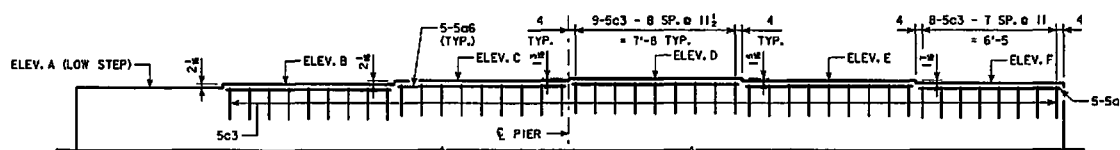
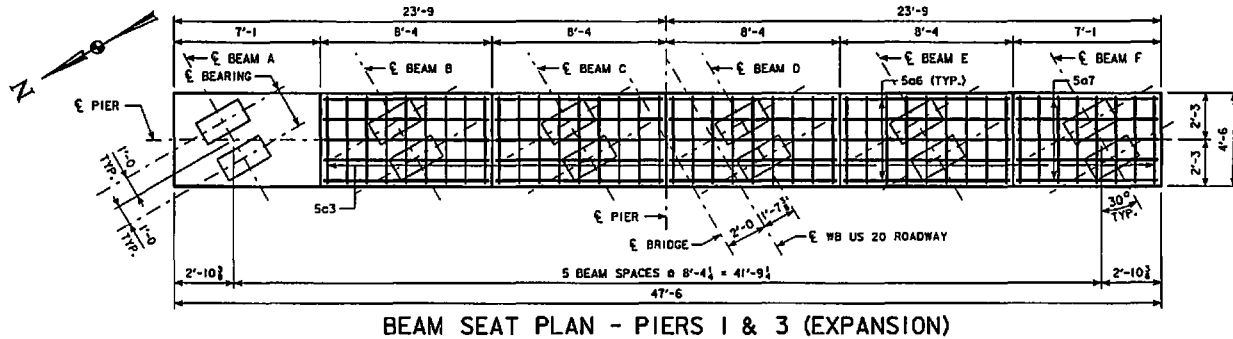
**benesch**  
 Alfred Benesch & Company  
 203 North Michigan Avenue, Suite 2400  
 Chicago, Illinois 60601  
 312-553-4130      JOB NO. 10423.01

DESIGN TEAM	MFH/RMG/KMP	WOODBURY COUNTY	PROJECT NUMBER	NHSX-020-11(130)-34-97	SHEET NUMBER	7
2:17:48 PM      untitled      c:\p\wordir\benesch\projects\projects\kplaczek\dms12784\97020130.Final_07302015.brg		<b>INCLUDES ADDENDA: A02</b>				

BENCH MARK NO. 567 STA. 10811+73.14 5.08' RT EL. 1133.482  
 FOUND IDOT PLUG TOP NW RAIL BRIDGE

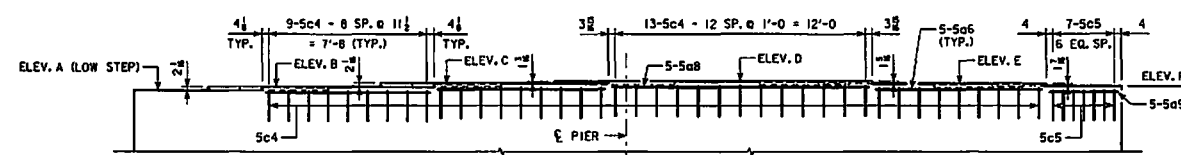
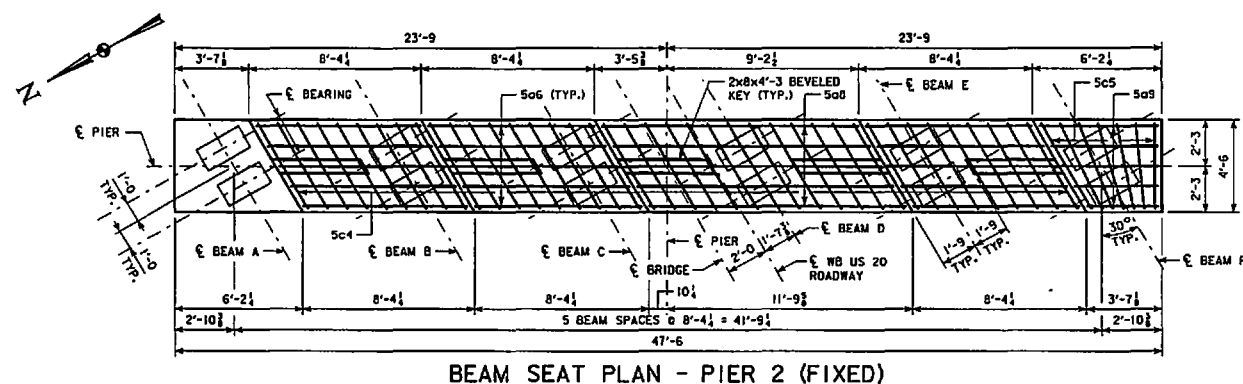
### BEAM SEAT ELEVATIONS

LOCATION	ELEV. A	ELEV. B	ELEV. C	ELEV. D	ELEV. E	ELEV. F
PIER 1	1126.64	1126.81	1126.98	1127.08	1126.97	1126.85
PIER 2	1126.25	1126.42	1126.59	1126.69	1126.58	1126.46
PIER 3	1125.17	1125.34	1125.51	1125.61	1125.50	1125.38



### PIER NOTES:

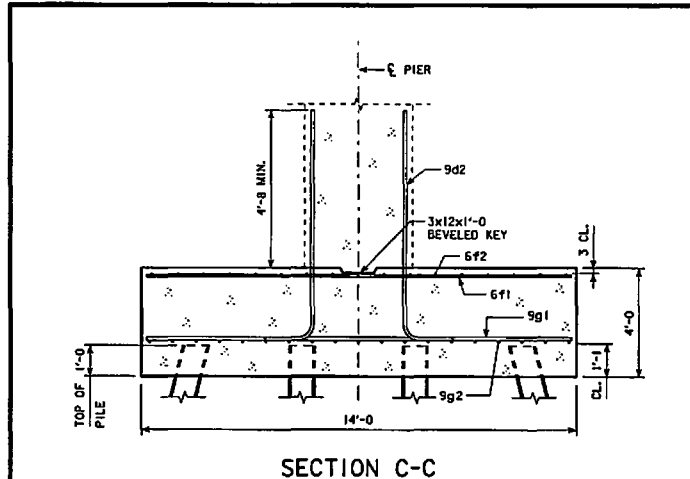
- CAP REINFORCEMENT NOT SHOWN FOR CLARITY. SEE DESIGN SHEET 7 FOR DETAILS.
- SEE DESIGN SHEET 9 FOR FOOTING DETAILS AND ADDITIONAL PIER NOTES.
- SEE DESIGN SHEET 6 FOR STAKING DIAGRAM.



DESIGN FOR 30° SKEW L.A.  
**486'-0 X 40'-0 PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGE**  
 121'-0 END SPANS 122'-0 INTERIOR SPANS  
**PIER DETAILS**  
 STATION 20813+99.87 JULY 2015  
**WOODBURY COUNTY**  
 IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION  
 DESIGN SHEET NO. 8 OF 36 FILE NO. 30568 DESIGN NO. 114

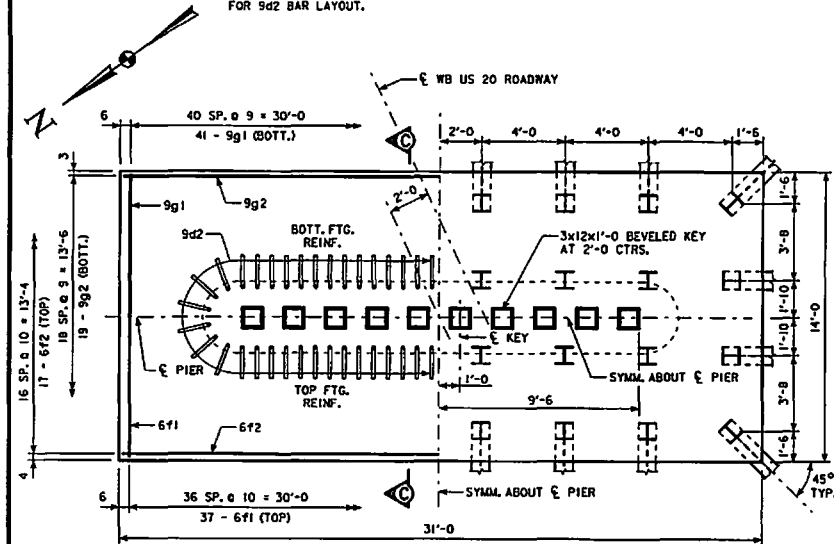
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 312-662-6420 Job No. 10421.01

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SECTION C-C

NOTE:  
SEE SECTION A-A ON DESIGN SHEET 7  
FOR 9d2 BAR LAYOUT.



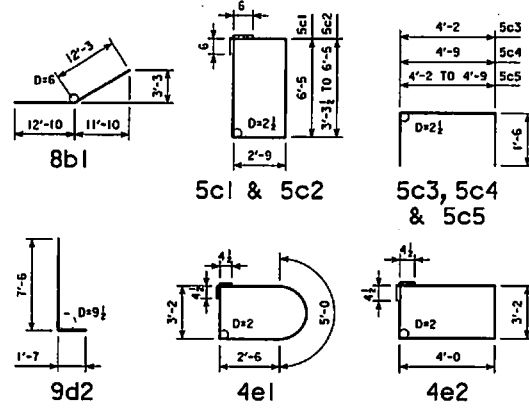
FOOTING PLAN AND PILE LAYOUT

32-HP14x73 STEEL PILES (55' LONG) REQUIRED AT PIER 1  
32-HP14x73 STEEL PILES (50' LONG) REQUIRED AT PIER 2  
32-HP14x73 STEEL PILES (50' LONG) REQUIRED AT PIER 3

**benesch**  
Alfred Benesch & Company  
205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-663-0430 Job No. 10423.01

DESIGN TEAM MFH/RMG/KMP  
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BENT BAR DETAILS



NOTE: ALL DIMENSIONS ARE OUT TO OUT.  
D = PIN DIAMETER.

PIER NOTES:

MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2'-0" UNLESS OTHERWISE NOTED OR SHOWN.

THE CONTRACT LENGTH OF 55 FEET FOR THE PIER 1 PILES IS BASED ON A NON-COHESIVE SOIL CLASSIFICATION. A TOTAL FACTORED AXIAL LOAD PER PILE (P<sub>U</sub>) OF 176 KIPS, AND A GEOTECHNICAL RESISTANCE FACTOR (PHI) OF 0.55. THE CONTRACT LENGTH OF 50 FEET FOR THE PIER 2 AND PIER 3 PILES IS BASED ON A MIXED SOIL CLASSIFICATION, A TOTAL FACTORED AXIAL LOAD PER PILE (P<sub>U</sub>) OF 176 KIPS, AND A GEOTECHNICAL RESISTANCE FACTOR (PHI) OF 0.65.

THE NOMINAL AXIAL BEARING RESISTANCE FOR CONSTRUCTION CONTROL FOR THE PIER 1 PILES WAS DETERMINED FROM A NON-COHESIVE SOIL CLASSIFICATION AND A GEOTECHNICAL RESISTANCE FACTOR (PHI) OF 0.55. THE NOMINAL AXIAL BEARING RESISTANCE FOR CONSTRUCTION CONTROL FOR THE PIER 2 AND PIER 3 PILES WAS DETERMINED FROM A MIXED SOIL CLASSIFICATION AND A GEOTECHNICAL RESISTANCE FACTOR (PHI) OF 0.65. PILES ARE ASSUMED TO BE DRIVEN FROM A START ELEVATION AT THE BOTTOM OF FOOTING. DESIGN SCOUR (100-YEAR) WAS ASSUMED TO AFFECT THE UPPER 8 FEET OF EMBEDDED PILE LENGTH AND CAUSE 23 KIPS OF DRIVING RESISTANCE FOR THE PIER 1 PILES AND 28 KIPS OF DRIVING RESISTANCE FOR THE PIER 2 AND PIER 3 PILES.

THE REQUIRED NOMINAL AXIAL BEARING RESISTANCE FOR THE PIER 1 PILES IS 171 TONS AT END OF DRIVE OR RETAP. THE REQUIRED NOMINAL AXIAL BEARING RESISTANCE FOR THE PIER 2 AND PIER 3 PILES IS 149 TONS AT END OF DRIVE OR RETAP. THE PILE CONTRACT LENGTH SHALL BE DRIVEN AS PER PLAN UNLESS PILES REACH REFUSAL. CONSTRUCTION CONTROL REQUIRES A WEAP ANALYSIS WITH A BEARING GRAPH. IN NO CASE SHALL A PILE BE EMBEDDED LESS THAN 30 FEET.

STEEL PILE POINTS ARE REQUIRED FOR THE STEEL H-PILES AT THE PIERS.

ALL BATTERED PILES SHALL BE TRIMMED TO A HORIZONTAL LINE TO AID IN THE PLACEMENT OF REINFORCING.

THE LUMP SUM BID ITEM "EXCAVATE AND DEWATER" SHALL INCLUDE ALL COSTS ASSOCIATED WITH THE EXCAVATION AND DEWATERING REQUIRED TO CONSTRUCT THE PIER FOOTINGS IN THE DRY, IN ACCORDANCE WITH SECTION 2405 OF THE STANDARD SPECIFICATIONS. THE LENGTH AND WIDTH OF THE SEAL COAT WAS BASED ON THE REQUIRED ONE FOOT CLEARANCE BETWEEN THE TIP OF THE SHEET PILES AND THE BATTERED PILING. THE CONCRETE SEAL COAT, IF USED, SHALL BE 4'-3" THICK, BASED ON A WATER ELEVATION OF 1122.00.

CAP

BAR	LOCATION	SHAPE	PIER 1		PIER 2		PIER 3		
			NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	
10a1	TOP LONGITUDINAL	▬	18	47'-2"	18	47'-2"	18	47'-2"	
6a2	SIDES LONGITUDINAL	▬	6	47'-2"	6	47'-2"	6	47'-2"	
6a3	SIDES LONGITUDINAL	▬	2	45'-0"	2	45'-0"	2	45'-0"	
6a4	SIDES LONGITUDINAL	▬	2	38'-3"	2	30'-3"	2	38'-3"	
6a5	SIDES LONGITUDINAL	▬	2	31'-6"	2	31'-6"	2	31'-6"	
5a6	BEAM SEAT LONGITUDINAL	▬	20	8'-0"	167	15	8'-0"	126	20
5a7	BEAM SEAT LONGITUDINAL	▬	5	6'-9"	36	-	-	5	6'-9"
5a8	BEAM SEAT LONGITUDINAL	▬	-	-	-	5	12'-3"	64	-
5a9	BEAM SEAT LONGITUDINAL	▬	-	-	-	5	VARIES	24	-
8b1	BOTTOM LONGITUDINAL	▬	12	25'-1"	804	12	25'-1"	804	12
5c1	MIDDLE TRANSVERSE	▬	54	19'-4"	1,089	54	19'-4"	1,089	54
5c2	CANTILEVER TRANSVERSE	▬	68	VARIES	1,150	68	VARIES	1,150	68
5c3	BEAM SEAT TRANSVERSE	▬	44	7'-2"	329	-	-	44	7'-2"
5c4	BEAM SEAT TRANSVERSE	▬	-	-	-	40	7'-9"	324	-
5c5	BEAM SEAT TRANSVERSE	▬	-	-	-	T	VARIES	55	-
TOTAL (L.B.)			8,001		8,052		8,001		
STRUCTURAL CONCRETE (CY)			49.0		49.0		49.0		

COLUMN

BAR	LOCATION	SHAPE	PIER 1		PIER 2		PIER 3	
			NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
9d1	VERTICAL	▬	68	24'-6"	5,665	68	24'-1"	5,569
4e1	END TRANSVERSE	▬	44	13'-11"	410	44	13'-11"	410
4e2	MIDDLE TRANSVERSE	▬	154	15'-1"	1,552	154	15'-1"	1,552
TOTAL (L.B.)			7,627		7,531		7,191	
STRUCTURAL CONCRETE (CY)			62.6		61.5		58.4	

FOOTING

BAR	LOCATION	SHAPE	PIER 1		PIER 2		PIER 3	
			NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
9d2	COLUMN DOWELS	▬	68	9'-1"	2,101	68	9'-1"	2,101
6f1	TOP TRANSVERSE	▬	37	13'-8"	760	37	13'-8"	760
6f2	TOP LONGITUDINAL	▬	17	30'-8"	784	17	30'-8"	784
9g1	BOTTOM TRANSVERSE	▬	41	13'-8"	1,906	41	13'-8"	1,906
9g2	BOTTOM LONGITUDINAL	▬	19	30'-8"	1,982	19	30'-8"	1,982
TOTAL (L.B.)			7,533		7,533		7,533	
STRUCTURAL CONCRETE (CY)			64.3		64.3		64.3	

IF THE WATER ELEVATION IS HIGHER THAN 1122.00 AT THE TIME OF CONSTRUCTION, A LARGER SEAL COAT MAY BE REQUIRED TO MAINTAIN THE CLEARANCE BETWEEN THE SHEET PILES AND BATTERED PILING. THE BRIDGE ENGINEER SHALL BE NOTIFIED BEFORE USING A LARGER SEAL COAT.

ALL EXPOSED CORNERS 90° OR SHARPER ARE TO BE FILLETED WITH A 1/2" DRESSED AND BEVELED STRIP.

SPECIFICATIONS FOR MASS CONCRETE CONTROL OF HEAT OF HYDRATION SHALL APPLY TO THE PIER CAP.

SEE DESIGN SHEETS 7 AND 8 FOR PIER DETAILS.

SEE DESIGN SHEET 6 FOR STAKING DIAGRAM.

PILE DIMENSIONS SHOWN ARE AT THE BOTTOM OF FOOTING. BATTER PILES 4 1/2" IN THE DIRECTION SHOWN.

CONSTRUCTION JOINTS ARE TO BE FORMED WITH 3" x 12" x 1'-0" DRESSED AND BEVELED KEYS, SPACED AS SHOWN ON FOOTING PLAN.

DESIGN FOR 30° SKEW L.A.  
**486'-0" X 40'-0" PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGE**  
 121'-0" END SPANS 122'-0" INTERIOR SPANS  
**PIER DETAILS**  
 STATION 20813+99.87 JULY 2015  
**WOODBURY COUNTY**  
 IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION  
 DESIGN SHEET NO. 9 OF 36 FILE NO. 30568 DESIGN NO. 114

**GENERAL NOTES:**

THIS DESIGN IS CARRY EAST BOUND TRAFFIC FOR THE REPLACEMENT OF THE EXISTING 42'x28' CONTINUOUS I-BEAM BRIDGE, DESIGN NO. 1556, WHICH CARRIES BOTH EAST BOUND AND WEST BOUND TRAFFIC.

FAINT LINES ON PLANS INDICATE THE EXISTING STRUCTURE.

UTILITY COMPANIES WHOSE FACILITIES ARE SHOWN ON THE PLANS OR KNOWN TO BE WITHIN THE CONSTRUCTION LIMITS SHALL BE NOTIFIED BY THE CONTRACTOR OF THE CONSTRUCTION STARTING DATE.

KEYWAY DIMENSIONS SHOWN ON THE PLANS ARE BASED ON NOMINAL DIMENSIONS UNLESS STATED OTHERWISE. IN ADDITION, THE BEVEL USED ON THE KEYWAY SHALL BE LIMITED TO A MAXIMUM OF 10 DEGREES FROM VERTICAL.

THIS BRIDGE IS DESIGNED FOR HL-93 LOADING, PLUS 20 LBS. PER SQUARE FOOT OF ROADWAY FOR FUTURE WEARING SURFACE.

IT SHALL BE THE BRIDGE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SITES FOR EXCESS EXCAVATED MATERIAL. NO PAYMENT FOR OVERHAUL WILL BE ALLOWED FOR MATERIAL HAULED TO THESE SITES.

CONCRETE BARRIER RAILS PLACED USING THE SLIPFORM METHOD WILL REQUIRE THE USE OF A CLASS BR CONCRETE IN ACCORDANCE WITH ARTICLE 2513.03, A.2 OF THE STANDARD SPECIFICATIONS. CAST-IN-PLACE BARRIER RAILS SHALL USE HIGH PERFORMANCE STRUCTURAL CONCRETE. CLASS D CONCRETE IS NOT PERMITTED FOR CONCRETE BARRIER RAILS (CAST-IN-PLACE OR SLIPFORMED METHOD).

THE COST OF PREFORMED EXPANSION JOINT FILLER, FURNISHING AND PLACING SUBDRAIN (INCLUDING EXCAVATION, FLOODABLE BACKFILL, POROUS BACKFILL, AND COST OF FURNISHING AND PLACING CONCRETE SEALER IS TO BE INCLUDED IN THE PRICE BID FOR "HIGH PERFORMANCE STRUCTURAL CONCRETE".

THESE BRIDGE PLANS LABEL ALL REINFORCING STEEL WITH ENGLISH NOTATION (501 IS 3/4 INCH DIAMETER BAR). ENGLISH REINFORCING STEEL RECEIVED IN THE FIELD MAY DISPLAY THE FOLLOWING "BAR DESIGNATION". THE "BAR DESIGNATION" IS THE STAMPED IMPRESSION ON THE REINFORCING BARS, AND IS EQUIVALENT TO THE BAR DIAMETER IN MILLIMETERS.

ENGLISH SIZE:	3	4	5	6	7	8	9	10	11
BAR DESIGNATION:	10	13	16	19	22	25	29	32	36

ALL REINFORCING BARS AND BARS NOTED AS DOWELS SUPPLIED FOR THIS STRUCTURE SHALL BE DEFORMED REINFORCEMENT UNLESS OTHERWISE NOTED OR SHOWN.

THE CONTRACTOR SHALL CONTACT THE USGS AT LEAST 2 WEEKS BEFORE THE PRECONSTRUCTION MEETING. THIS WILL ALLOW A REPRESENTATIVE FROM THE USGS TO ATTEND THIS MEETING AND SCHEDULE THE RELOCATION OF THE GAGING STATION ON THE EXISTING BRIDGE. USGS PHONE: 712-323-8024.

THE ROAD WILL BE OPEN TO TRAFFIC ON THE EXISTING BRIDGE DURING CONSTRUCTION IN 2015, THE ROAD WILL BE CLOSED TO TRAFFIC IN 2016, AND THE ROAD WILL BE OPEN TO TRAFFIC ON THE NEW WEST BOUND BRIDGE DURING CONSTRUCTION IN 2017 AS INDICATED IN THE TRAFFIC CONTROL PLAN. REFER TO THE TRAFFIC CONTROL PLAN IN PROJECT NO. NHSX-020-(1133)-3H-97.

CAST IN ONE PIECE STEEL PILE POINTS ARE REQUIRED FOR ABUTMENTS AND PIERS IN ACCORDANCE WITH ARTICLE 4167.02 OF THE CURRENT STANDARD SPECIFICATIONS AND MATERIALS I.M. 468.

THE CONTRACTOR SHALL NOTE THE STANDARD ABUTMENT DETAILS HAVE BEEN MODIFIED TO OFFSET THE ABUTMENT FOOTING FROM THE WINGWALL AND THE ABUTMENT FOOTING FROM THE BACKWALL TO AID IN TYING THE REINFORCING STEEL BETWEEN THE FOOTING TO WINGWALL AND THE FOOTING TO BACKWALL.

THE APPROACH FILLS AS SHOWN ARE NOT A PART OF THIS CONTRACT, BUT ARE TO BE IN PLACE BEFORE ABUTMENT PILES ARE DRIVEN. THE BRIDGE CONTRACTOR IS TO LEVEL OFF AND SHAPE THE BERMS TO THE ELEVATIONS AND DIMENSIONS SHOWN. DRESSING OF SLOPES OUTSIDE THE BRIDGE AREA NOT DISTURBED BY THE BRIDGE CONTRACTOR SHALL BE PAID FOR AS EXTRA WORK.

CONCRETE SEALER IS TO BE APPLIED TO THE EXPOSED BRIDGE SEAT SURFACE AT THE ABUTMENTS.

THESE BRIDGE PLANS DO NOT CONTAIN ROAD SHEETS FOR THE PROJECT SHOWN. ROAD PLANS FOR THE PROJECT HAVE BEEN TIED TO THE BRIDGE PLANS THROUGH THE CONTRACT LETTING PROCESS. THE TIED ROAD PLANS, PROJECT NO. NHSX-020-(1133)-3H-97, CONTAIN 404 PERMIT INFORMATION AND THE POLLUTION PREVENTION PLAN.

**GENERAL NOTES (CONT.):**

GUARDRAIL AND APPROACH BARRIERS ARE TO BE PLACED BY PROJECT NHSX-020-(1133)-3H-97.

DURING CONSTRUCTION OF THIS PROJECT THE BRIDGE CONTRACTOR WILL BE REQUIRED TO COORDINATE OPERATIONS WITH THOSE OF OTHER CONTRACTORS WORKING WITHIN THE SAME AREA. OTHER WORK IN PROGRESS DURING THE SAME PERIOD OF TIME WILL INCLUDE, BUT IS NOT LIMITED TO, CONSTRUCTION OF THE FOLLOWING PROJECTS:

- NHSX-020-(1134)-3H-97 TRAFFIC SIGNS
- NHSX-020-(1147)-3H-97 RCB CULVERT REPLACEMENT
- NHSX-020-(1149)-3H-97 STRUCTURES-MISCELLANEOUS

**SPECIFICATIONS:**

DESIGN: AASHTO LRFD 6th Ed, SERIES OF 2012, EXCEPT AS NOTED IN THE CURRENT IOWA BRIDGE DESIGN MANUAL.

CONSTRUCTION: IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SERIES 2015, PLUS APPLICABLE GENERAL SUPPLEMENTAL SPECIFICATIONS, DEVELOPMENTAL SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS SHALL APPLY TO CONSTRUCTION WORK ON THIS PROJECT.

THE DEVELOPMENTAL SPECIFICATION, DS-15032, "DEVELOPMENTAL SPECIFICATIONS FOR MASS CONCRETE - CONTROL OF HEAT OF HYDRATION" SHALL APPLY TO WORK ON THIS PROJECT.

THE DEVELOPMENTAL SPECIFICATIONS, DS-15033, FOR HIGH PERFORMANCE CONCRETE FOR STRUCTURES SHALL APPLY TO WORK ON THIS PROJECT.

**DESIGN STRESSES:**

DESIGN STRESSES FOR THE FOLLOWING MATERIALS ARE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, LRFD 6th Ed, SERIES OF 2012, EXCEPT AS NOTED IN THE CURRENT IOWA BRIDGE DESIGN MANUAL.

REINFORCING STEEL IN ACCORDANCE WITH LRFD AASHTO SECTION 5, GRADE 60.

CONCRETE IN ACCORDANCE WITH LRFD AASHTO SECTION 5, f'c = 4,000 PSI, EXCEPT PRESTRESSED BEAM CONCRETE AS NOTED.

BRIDGE DECK CONCRETE f'c = 4,000 PSI.

PRESTRESSED CONCRETE BEAMS, SEE DESIGN SHEETS 26- 27.

STRUCTURAL STEEL IN ACCORDANCE WITH LRFD AASHTO SECTION 6. ASTM A709 GRADE 36, (AASHTO M270 GRADE 36).

**SHOP DRAWING SUBMITTALS**

SHOP DRAWINGS SHALL BE SUBMITTED FOR THE FOLLOWING ITEMS SHOWN IN THE TABLE BELOW. (NOTE ADDITIONAL SHOP DRAWINGS MAY BE REQUIRED IN ACCORDANCE WITH ARTICLE 1105.03 OF THE STANDARD SPECIFICATIONS.)

SUBMITTAL REQUIREMENTS FOR SHOP DRAWINGS SHOULD BE IN ACCORDANCE WITH ARTICLE 1105.03, OF THE STANDARD SPECIFICATIONS, FOR HIGHWAY AND BRIDGE CONSTRUCTION OF THE IOWA DEPARTMENT OF TRANSPORTATION.

1	STRUCTURAL STEEL
2	BEARINGS
3	STEEL EXTRUSION JOINT WITH NEOPRENE

**BRIDGE DECK DIMENSIONS TABLE**

ITEM	UNITS	QUANTITY
1 DECK LENGTH	L.F.	489.8
2 DECK WIDTH	L.F.	43.2
3 DECK AREA	S.F.	21,145

1. DECK LENGTH IS MEASURED FROM E OF EXPANSION JOINT AT THE WEST ABUTMENT TO THE E OF EXPANSION JOINT AT THE EAST ABUTMENT ALONG THE E US20 EASTBOUND APPROACH ROADWAY.
2. DECK WIDTH IS MEASURED FROM OUT-TO-OUT OF DECK PERPENDICULAR TO THE E US20 EASTBOUND APPROACH ROADWAY.
3. DECK AREA IS TO BE BASED ON THE TABULATED DECK AREAS.



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312-463-0450 Job No. 10423.01

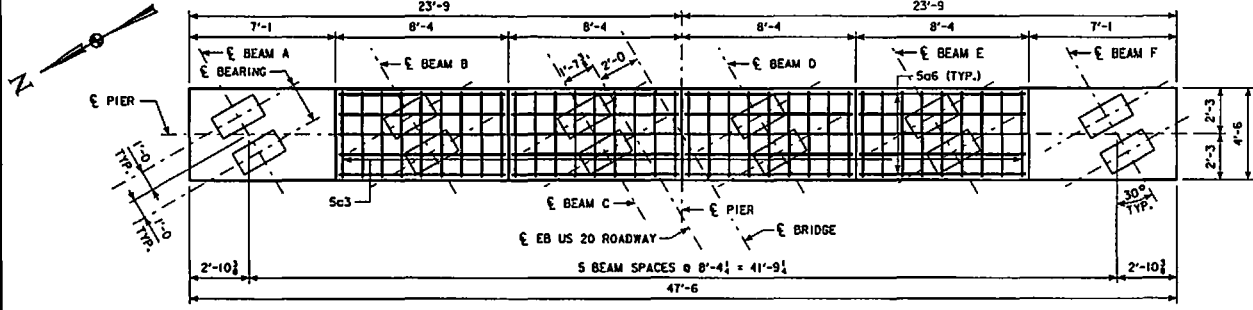
DESIGN FOR 30° SKEW L.A.  
486'-0" X 40'-0" PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGE  
121'-0" END SPANS 122'-0" INTERIOR SPANS  
GENERAL NOTES  
STATION 30813+76.64 JULY 2015  
WOODBURY COUNTY  
IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION  
DESIGN SHEET NO. 3 OF 35 FILE NO. 30568 DESIGN NO. 214

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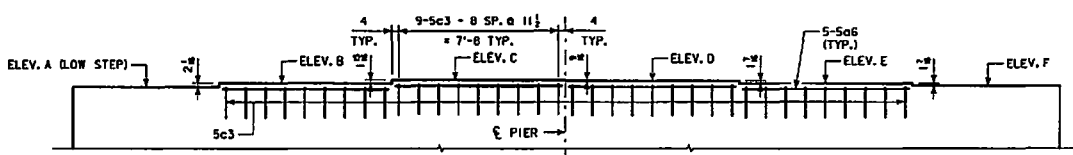
BENCH MARK NO. 567 STA. 10811+73.14 5.08' RT EL. 1133.482  
 FOUND IDOT PLUG TOP NW RAIL BRIDGE

**BEAM SEAT ELEVATIONS**

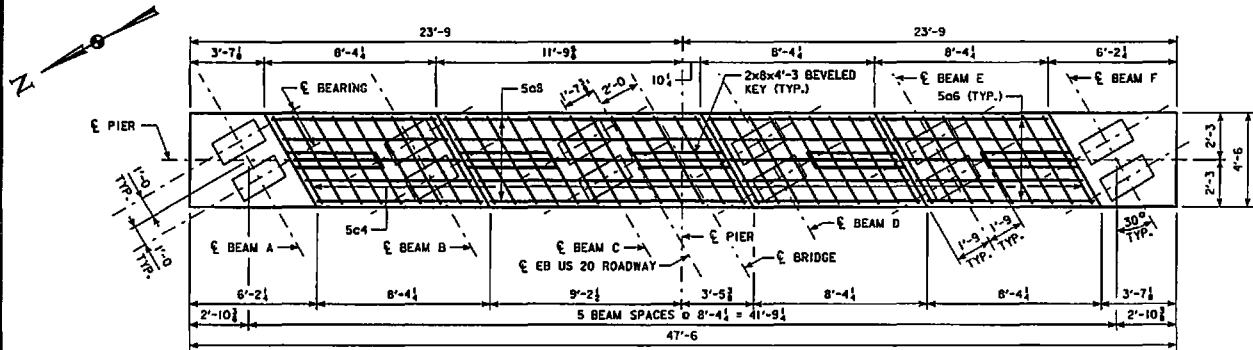
LOCATION	ELEV. A	ELEV. B	ELEV. C	ELEV. D	ELEV. E	ELEV. F
PIER 1	1126.87	1127.04	1127.20	1127.16	1127.04	1126.91
PIER 2	1126.49	1126.66	1126.82	1126.77	1126.65	1126.53
PIER 3	1125.41	1125.58	1125.74	1125.69	1125.57	1125.45



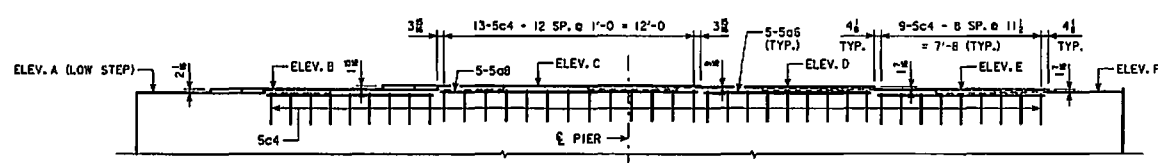
**BEAM SEAT PLAN - PIERS 1 & 3 (EXPANSION)**



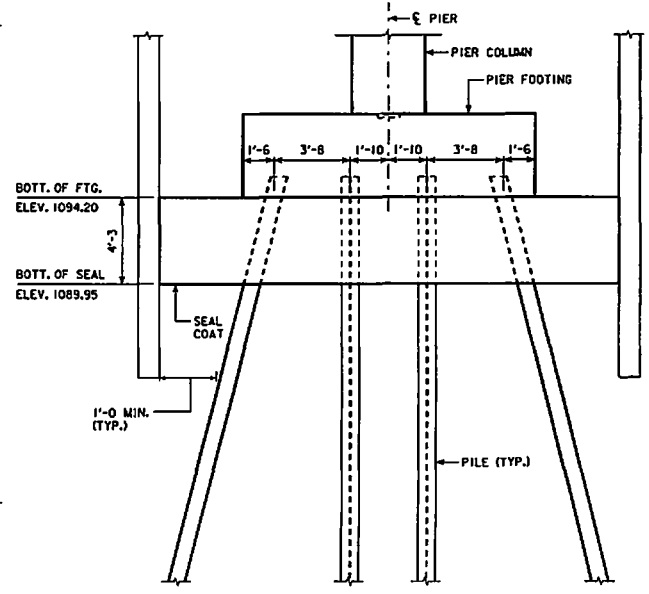
**BEAM SEAT ELEVATION - PIERS 1 & 3 (EXPANSION)**



**BEAM SEAT PLAN - PIER 2 (FIXED)**



**BEAM SEAT ELEVATION - PIER 2 (FIXED)**



**COFFERDAM SECTION**

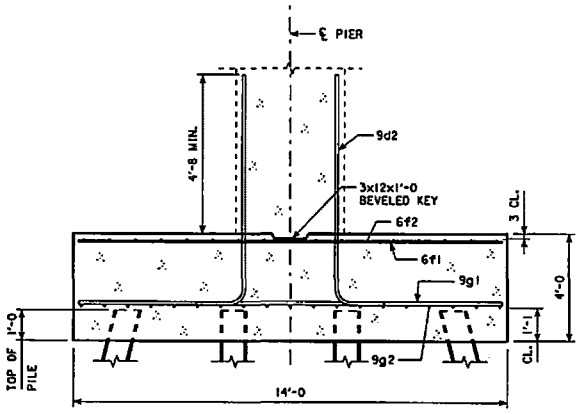
**PIER NOTES:**

- CAP REINFORCEMENT NOT SHOWN FOR CLARITY. SEE DESIGN SHEET 7 FOR DETAILS.
- SEE DESIGN SHEET 9 FOR FOOTING DETAILS AND ADDITIONAL PIER NOTES.
- SEE DESIGN SHEET 6 FOR STAKING DIAGRAM.

DESIGN FOR 30° SKEW L.A.  
**486'-0 X 40'-0 PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGE**  
 121'-0 END SPANS 122'-0 INTERIOR SPANS  
**PIER DETAILS**  
 STATION 30813+76.64 JULY 2015  
**WOODBURY COUNTY**  
 IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION  
 DESIGN SHEET NO. 8 OF 36 FILE NO. 30568 DESIGN NO. 214

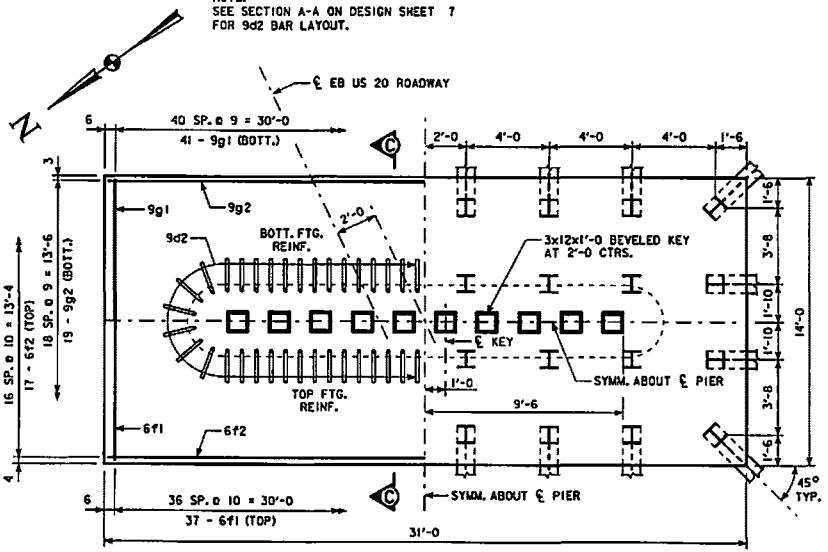
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SECTION C-C

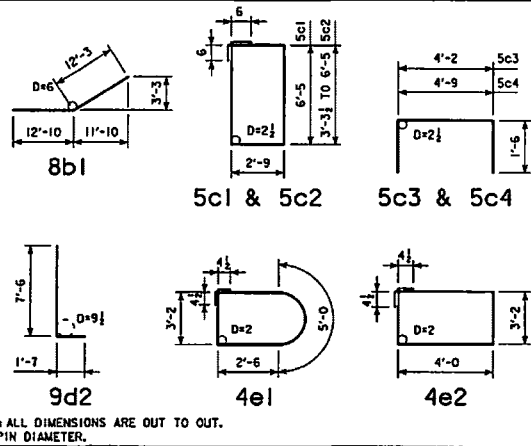
NOTE: SEE SECTION A-A ON DESIGN SHEET 7 FOR 9d2 BAR LAYOUT.



FOOTING PLAN AND PILE LAYOUT

32-HP14x73 STEEL PILES (55' LONG) REQUIRED AT PIER 1  
 32-HP14x73 STEEL PILES (50' LONG) REQUIRED AT PIER 2  
 32-HP14x73 STEEL PILES (50' LONG) REQUIRED AT PIER 3

BENT BAR DETAILS



NOTE: ALL DIMENSIONS ARE OUT TO OUT.  
 D = PIN DIAMETER.

PIER NOTES:

MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN.

THE CONTRACT LENGTH OF 55 FEET FOR THE PIER 1 PILES IS BASED ON A NON-COHESIVE SOIL CLASSIFICATION, A TOTAL FACTORED AXIAL LOAD PER PILE (P<sub>U</sub>) OF 176 KIPS, AND A GEOTECHNICAL RESISTANCE FACTOR (PHI) OF 0.55. THE CONTRACT LENGTH OF 50 FEET FOR THE PIER 2 AND PIER 3 PILES IS BASED ON A MIXED SOIL CLASSIFICATION, A TOTAL FACTORED AXIAL LOAD PER PILE (P<sub>U</sub>) OF 176 KIPS, AND A GEOTECHNICAL RESISTANCE FACTOR (PHI) OF 0.65.

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THE REQUIRED NOMINAL AXIAL BEARING RESISTANCE FOR THE PIER 1 PILES IS 171 TONS AT END OF DRIVE OR RETAP. THE REQUIRED NOMINAL AXIAL BEARING RESISTANCE FOR THE PIER 2 AND PIER 3 PILES IS 149 TONS AT END OF DRIVE OR RETAP. THE PILE CONTRACT LENGTH SHALL BE DRIVEN AS PER PLAN UNLESS PILES REACH REFUSAL. CONSTRUCTION CONTROL REQUIRES A WEAP ANALYSIS WITH A BEARING GRAPH. IN NO CASE SHALL A PILE BE EMBEDDED LESS THAN 30 FEET.

STEEL PILE POINTS ARE REQUIRED FOR THE STEEL H-PILES AT THE PIERS.

ALL BATTERED PILES SHALL BE TRIMMED TO A HORIZONTAL LINE TO AID IN THE PLACEMENT OF REINFORCING.

THE LUMP SUM BID ITEM "EXCAVATE AND DEWATER" SHALL INCLUDE ALL COSTS ASSOCIATED WITH THE EXCAVATION AND DEWATERING REQUIRED TO CONSTRUCT THE PIER FOOTINGS IN THE DRY, IN ACCORDANCE WITH SECTION 2405 OF THE STANDARD SPECIFICATIONS. THE LENGTH AND WIDTH OF THE SEAL COAT WAS BASED ON THE REQUIRED ONE FOOT CLEARANCE BETWEEN THE TIP OF THE SHEET PILES AND THE BATTERED PILING. THE CONCRETE SEAL COAT, IF USED, SHALL BE 4'-3" THICK, BASED ON A WATER ELEVATION OF 1122.00. IF THE WATER ELEVATION IS HIGHER THAN 1122.00 AT THE TIME OF CONSTRUCTION, A LARGER SEAL COAT MAY BE REQUIRED TO MAINTAIN THE CLEARANCE BETWEEN THE SHEET PILES AND BATTERED PILING. THE BRIDGE ENGINEER SHALL BE NOTIFIED BEFORE USING A LARGER SEAL COAT.

CAP

BAR	LOCATION	SHAPE	PIER 1		PIER 2		PIER 3	
			NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT
10a1	TOP LONGITUDINAL	▬	18	47'-2	3,654	18	47'-2	3,654
6a2	SIDES LONGITUDINAL	▬	6	47'-2	426	6	47'-2	426
6a3	SIDES LONGITUDINAL	▬	2	45'-0	136	2	45'-0	136
6a4	SIDES LONGITUDINAL	▬	2	38'-3	115	2	38'-3	115
6a5	SIDES LONGITUDINAL	▬	2	31'-6	95	2	31'-6	95
5c6	BEAM SEAT LONGITUDINAL	▬	20	8'-0	167	15	8'-0	126
5a8	BEAM SEAT LONGITUDINAL	▬	-	-	-	5	12'-3	64
8b1	BOTTOM LONGITUDINAL	▬	12	25'-1	804	12	25'-1	804
5c1	MIDDLE TRANSVERSE	▬	54	19'-4	1,089	54	19'-4	1,089
5c2	CANTILEVER TRANSVERSE	▬	68	VARIES	1,150	68	VARIES	1,150
5c3	BEAM SEAT TRANSVERSE	▬	36	7'-2	270	-	-	36
5c4	BEAM SEAT TRANSVERSE	▬	-	-	-	40	7'-9	324
TOTAL (G.B.)			7,906		7,983		7,906	
STRUCTURAL CONCRETE (CY)			48.3		48.3		48.3	

COLUMN

BAR	LOCATION	SHAPE	PIER 1		PIER 2		PIER 3	
			NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT
9d1	VERTICAL	▬	68	24'-9	5,723	68	24'-4	5,626
4c1	END TRANSVERSE	▬	44	13'-11	410	44	13'-11	410
4c2	MIDDLE TRANSVERSE	▬	154	15'-1	1,552	154	15'-1	1,552
TOTAL (G.B.)			7,685		7,588		7,249	
STRUCTURAL CONCRETE (CY)			63.3		62.2		59.1	

FOOTING

BAR	LOCATION	SHAPE	PIER 1		PIER 2		PIER 3	
			NO.	WEIGHT	NO.	WEIGHT	NO.	WEIGHT
9d2	COLUMN DOWELS	▬	68	9'-1	2,101	68	9'-1	2,101
6f1	TOP TRANSVERSE	▬	37	13'-8	760	37	13'-8	760
6f2	TOP LONGITUDINAL	▬	17	30'-8	784	17	30'-8	784
9g1	BOTTOM TRANSVERSE	▬	41	13'-8	1,906	41	13'-8	1,906
9g2	BOTTOM LONGITUDINAL	▬	19	30'-8	1,982	19	30'-8	1,982
TOTAL (G.B.)			7,533		7,533		7,533	
STRUCTURAL CONCRETE (CY)			64.3		64.3		64.3	

ALL EXPOSED CORNERS 90° OR SHARPER ARE TO BE FILLETED WITH A 3/4" DRESSED AND BEVELED STRIP.

SPECIFICATIONS FOR MASS CONCRETE CONTROL OF HEAT OF HYDRATION SHALL APPLY TO THE PIER CAP.

SEE DESIGN SHEETS 7 AND 8 FOR PIER DETAILS.

SEE DESIGN SHEET 6 FOR STAKING DIAGRAM.

PILE DIMENSIONS SHOWN ARE AT THE BOTTOM OF FOOTING. BATTER PILES 4 1/8" IN THE DIRECTION SHOWN.

CONSTRUCTION JOINTS ARE TO BE FORMED WITH 3x12x1'-0" DRESSED AND BEVELED KEYS, SPACED AS SHOWN ON FOOTING PLAN.

DESIGN FOR 30° SKEW L.A.

**486'-0" X 40'-0" PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGE**

121'-0" END SPANS      122'-0" INTERIOR SPANS

**PIER DETAILS**

STATION 30813+76.64      JULY 2015

**WOODBURY COUNTY**

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

DESIGN SHEET NO. 9 OF 36      FILE NO. 3056B      DESIGN NO. 214

**benesch** Alfred Benesch & Company  
 205 North Michigan Avenue, Suite 2400  
 Chicago, Illinois 60601  
 312-662-0430      Job No. 10423.01

# A d d e n d u m

Iowa Department of Transportation  
Office of Contracts

Date of Letting: October 20, 2015  
Date of Addendum: October 6, 2015

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
103	97-0201-133	PCC PAVEMENT - GRADE AND NEW	WOODBURY	NHSX-020-1(130)--3H-97 NHSX-020-1(133)--3H-97 NHSX-020-1(147)--3H-97 NHSX-020-1(149)--3H-97 NHSX-020-1(170)--3H-97	20OCT103.A03

Make the following changes to the PROPOSAL SCHEDULE OF PRICES:

Delete Proposal Line No. 0470 2102-0425070 SPECIAL BACKFILL; 21,223.900 TON

Add Proposal Line No. 0475 2102-0425071 SPECIAL BACKFILL; 11,229.600 CY

Change Proposal Line No. 0590 2111-8174100 GRANULAR SUBBASE:

From: 150,406.000 SY

To: 142,632.800 SY

Add Proposal Line No. 0605 2115-0100000 MODIFIED SUBBASE; 1,085.400 CY

Delete Proposal Line No. 0650 2212-5070322 PATCHES, PARTIAL-DEPTH REPAIR, HOT MIX ASPHALT: 320.000 SY

Delete Proposal Line No. 0660 2212-5070330 PATCHES BY COUNT (REPAIR): 8.000 EA

Add Proposal Line No. 0665 2301-9091000 RUMBLE STRIP PANEL (PCC SURFACE); 4.000 EA

Add Proposal Line No. 1325 2530-5070221 REGULAR PARTIAL DEPTH HOT MIX ASPHALT FINISH PATCHES, BY AREA; 560.000 SY

Change Proposal Line No. 1810 2403-0100020 STRUCTURAL CONCRETE (RCB CULVERT):

From: 459.900 CY

To: 398.700 CY

Change Proposal Line No. 1820 2404-7775000 REINFORCING STEEL:

From: 77,638.000 LB

To: 69,655.000 LB

Make the following change to the plans:

NHSX-020-1(133)--3H-97

**ADD TO THE ESTIMATE REFERENCE INFORMATION:**

2102-0425071 SPECIAL BACKFILL: See Tab. 112-8 and Tab. 112-9 in the C Sheets for location and details.

2115-0100000 MODIFIED SUBBASE: See Tab 100-24M in the C Sheets for locations and details.

2301-9091000 RUNBLE STRIP PANEL (PCC SURFACE): See Tab. 112-7 in the C Sheets for locations and details.

2503-37775048 GATE, OUTLET CONTROL, FLAP, 48 IN.:

This work shall consist of furnishing and installing automatic drainage gates as shown in the plans and specified herein.

The drainage gates shall be a double-hinged type furnished in accordance with the dimensions shown in the plans.

The gates shall be furnished with seats and anchor devices of factory mounted on the corrugated metal pipe.

The gates shall consist of a flap and a seat with a circular opening of the size shown in the plans. The flaps and seats shall be designed to withstand ten foot hydraulic head above the centerline of the gate.

The gates shall be designed to open and close under a differential head of 0.2 foot.

The cast iron gates shall be manufactured in accordance with the requirements of ASTM A 126 Class B.

Any devices necessary to fasten the gate to the culvert pipe must be approved by the engineer.

The gates shall be installed as recommended by the manufacturer and approved by the Engineer.

The quantity for flap gate of the size indicated will be the quantity shown in the contract documents.

Payment will be made at the contract unit price for each.

Payment is full compensation for furnishing and installation of all required materials.

2530-5070221 REGULAR PARTIAL DEPTH HOT MIX ASPHALT FINISH PATCHES, BY AREA: See Tab102-11 in C Sheets for locations and details.

On Sheet B.6 Change granular subbase to modified subbase on Minnesota Ave.

“Note”: We will NOT change the granular subbase to modified subbase on US 20 through the “in-town” section at the East End.

Replace the attached TAB 100-24M on SHEET NUMBER C.20

Replace the attached TAB 112-9 on SHEET NUMBER C.21 and C.22

Replace the attached TAB 102-11, TAB 112-7 and TAB 112-8 on SHEET NUMBER C.26

Add the attached SHEET NUMBER H.6

Make the following change to the plans:

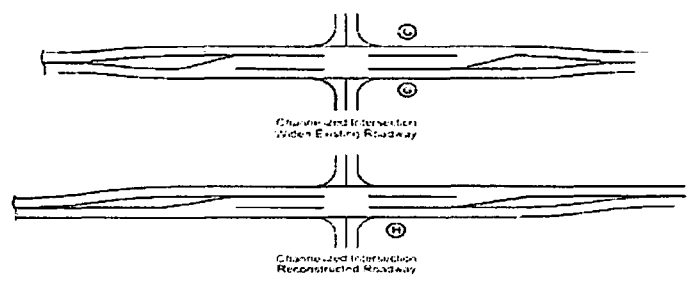
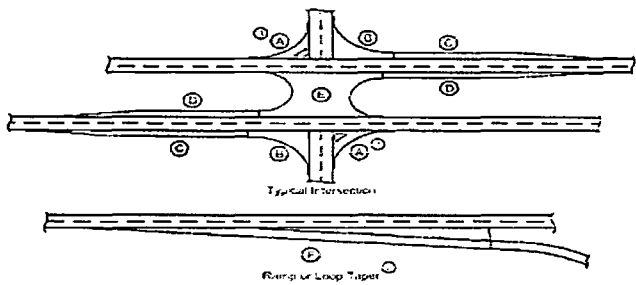
NHSX-020-1(147)--3H-97

SHEET NUMBER 3: STANDARDS TAB: Delete s CBJ 3-12 and CBJ 4-12

SHEET NUMBER 4: - Delete the bell joint details from the Longitudinal Section" details and "Situation Plan" details along with the bell joint Note.

SHEET NUMBER 5: - Delete the bell joint details from the Longitudinal Section" details and "Situation Plan" details along with the bell joint Note.

PCC PAVEMENT



- ① Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.
- ② Refer to PV-410, PV-411, PV-412, and PV-414.
- ③ Quantity includes Pavement Header.

Road Identification	Location Direction of Travel	Station to Station	Mainline		Area (3)								Paved Side Road Returns	Total Area By				Remarks	
			Width	Length	Area	① A	B	C	D	E	① F	G		H	Pavement Thickness 10 IN. (County)	Modified Subbase	Granular Subbase		Granular Subbase (County)
			FT	FT	SY	SY	SY	SY	SY	SY	SY	SY		SY	SY	CY	SY		SY
US 20	EB	10630+75.00 10753+00.00	26.0	12225.0	35316.7									35316.7		43466.7			
US 20	EB	10753+00.00 10757+00.00	26.0	400.0	1155.6									1255.6		1955.6		Curb Section	
US 20	EB	10757+00.00 10766+00.00	26.0	900.0	2600.0									2600.0		3200.0			
US 20	EB	10766+00.00 10793+00.00	26.0	2700.0	7800.0									7800.0		12525.0			
US 20	EB	10793+00.00 10806+00.00	26.0	1300.0	3755.6									3755.6		4622.2		Curb Section	
US 20	EB	10806+00.00 10810+52.34	26.0	452.3	1306.8									1306.8		2063.2			
US 20	EB	10817+23.77 10817+40.00	34.0	16.2	61.3									61.3		72.1			
US 20	EB	10817+40.00 10818+40.00	34-33	100.0	372.2									372.2		405.6			
US 20	EB	10818+40.00 10821+24.60	33.0	284.6	1043.5		119.4	434.3						1597.2		1787.0			
US 20	WB	10630+75.00 10766+00.00	26.0	13525.0	39072.2									39072.2		48088.9			
US 20	WB	10766+00.00 10791+25.00	26.0	2525.0	7294.4									7294.4		11713.2		Curb Section	
US 20	WB	10791+25.00 10801+00.00	26.0	975.0	2816.7									2816.7		3466.7			
US 20	WB	10801+00.00 10810+52.34	26.0	952.3	2751.2							1010.8		3762.0		4396.9			
US 20	WB	10817+23.77 10817+40.00	34.0	16.2	61.3									61.3		72.1			
US 20	WB	10817+40.00 10818+40.00	34-33	100.0	372.2									372.2		405.6			
US 20	WB	10818+40.00 10821+24.60	33.0	284.6	1043.5									1043.5		1233.3			
US 20	WB	Intersection at Minnesota Ave.				394.6	344.8		302.2	3023.4				2065.0		123.2	1325.6		
US 20	WB	Intersection at Minnesota Ave.				390.5	340.0		302.2					1031.7		121.8	302.1		
US 20	EB	Intersection at Mason Ave.							302.4	990.7				1293.1			1293.1		
US 20	WB	Intersection at Mason Ave.							302.0			402.6		302.0	402.6		302.0	441.5	
Minnesota Ave.	NB	804+00.00 813+75.23	24.0	975.2	2600.6									2600.6		433.4			
Minnesota Ave.	NB	815+09.24 824+25.00	24.0	915.8	2442.0									2442.0		407.0			
<b>TOTALS:</b>											<b>110123.1</b>	<b>402.6</b>	<b>1085.4</b>	<b>142191.3</b>	<b>441.5</b>				





**MEDIAN CROSSOVERS**

Refer to PV-500 Series.

\* Not a bid item

Road Ident.	Location Station	Standard Road Plan	Detour Pavement	Special Backfill	Granular Shoulder	Embankment in Place	Class 10 Excavation	Class 13 Excavation	Removal of Pavement	Saw Cut*	18" Unclassified Entrance Pipe	36" CMP Slotted Drain/ 6" Grate	Beveled Pipe and Guard	Remarks
		No.	SY	CY	TON	CY	CY	CY	SY	LF	LF	LF	No.	
US 20	10655+00.00	PV-510	1525.0	396.8	280.0	1030.0								Median crossover for final traffic control

112-7  
10-19-10

## RUMBLE STRIP PANELS

Refer to Standard Road Plan PV-10.

Location			Pavement		Remarks
Road Ident.	Station	Side	New PCC	Existing HMA	
D22		EB		2	West of L21
D22	M.P. 20.00	EB		2	W. of N. Jct. D22/IA31
D22/IA 31	M.P. 19.20	SB		2	N. of S. Jct. of D22/IA31
IA 31	M.P. 19.15	NB		2	S. of S. Jct. of D22/IA31
Minnesota Ave. (S)		NB	2		
Minnesota Ave. (N)		SB	2		
<b>TOTALS:</b>			<b>4</b>	<b>8</b>	

\* Note: Exact locations to be determined by the Engineer.

## TABULATION OF PARTIAL DEPTH REGULAR HMA FINISH PATCHES

Location			Dimension Of Patch			Estimated Quantities		Remarks
No.	Station or Milepost	Lane	Length x Width			SY	TON	
			FT					
1		EB	30.0	x	12.0	40.0	D22, W. of L21	
2		EB	30.0	x	12.0	40.0	D22, W. of L21	
3	M.P. 20.00	EB	30.0	x	12.0	40.0	D22, W. of N. Jct. D22/IA31	
4	M.P. 20.00	EB	30.0	x	12.0	40.0	D22, W. of N. Jct. D22/IA31	
5	M.P. 19.20	SB	30.0	x	12.0	40.0	D22/IA31, N. of S. Jct. D22/IA31	
6	M.P. 19.20	SB	30.0	x	12.0	40.0	D22/IA31, N. of S. Jct. D22/IA31	
7	M.P. 19.15	NB	30.0	x	12.0	40.0	IA31, S. of S. Jct. D22/IA31	
8	M.P. 19.15	NB	30.0	x	12.0	40.0	IA31, S. of S. Jct. D22/IA31	
9	800+12.21	NB	30.0	x	12.0	40.0	Minnesota Ave. (S)	
10	804+78.22	NB	30.0	x	12.0	40.0	Minnesota Ave. (S)	
11	809+56.22	NB	30.0	x	12.0	40.0	Minnesota Ave. (S)	
12	817+00.24	SB	30.0	x	12.0	40.0	Minnesota Ave. (N)	
13	819+42.24	SB	30.0	x	12.0	40.0	Minnesota Ave. (N)	
14	821+96.25	SB	30.0	x	12.0	40.0	Minnesota Ave. (N)	
<b>TOTAL:</b>						<b>560.0</b>		

Union Twp.  
T88N R14W  
SEC. 34

REVISED 10/29/13 PAR 72

69

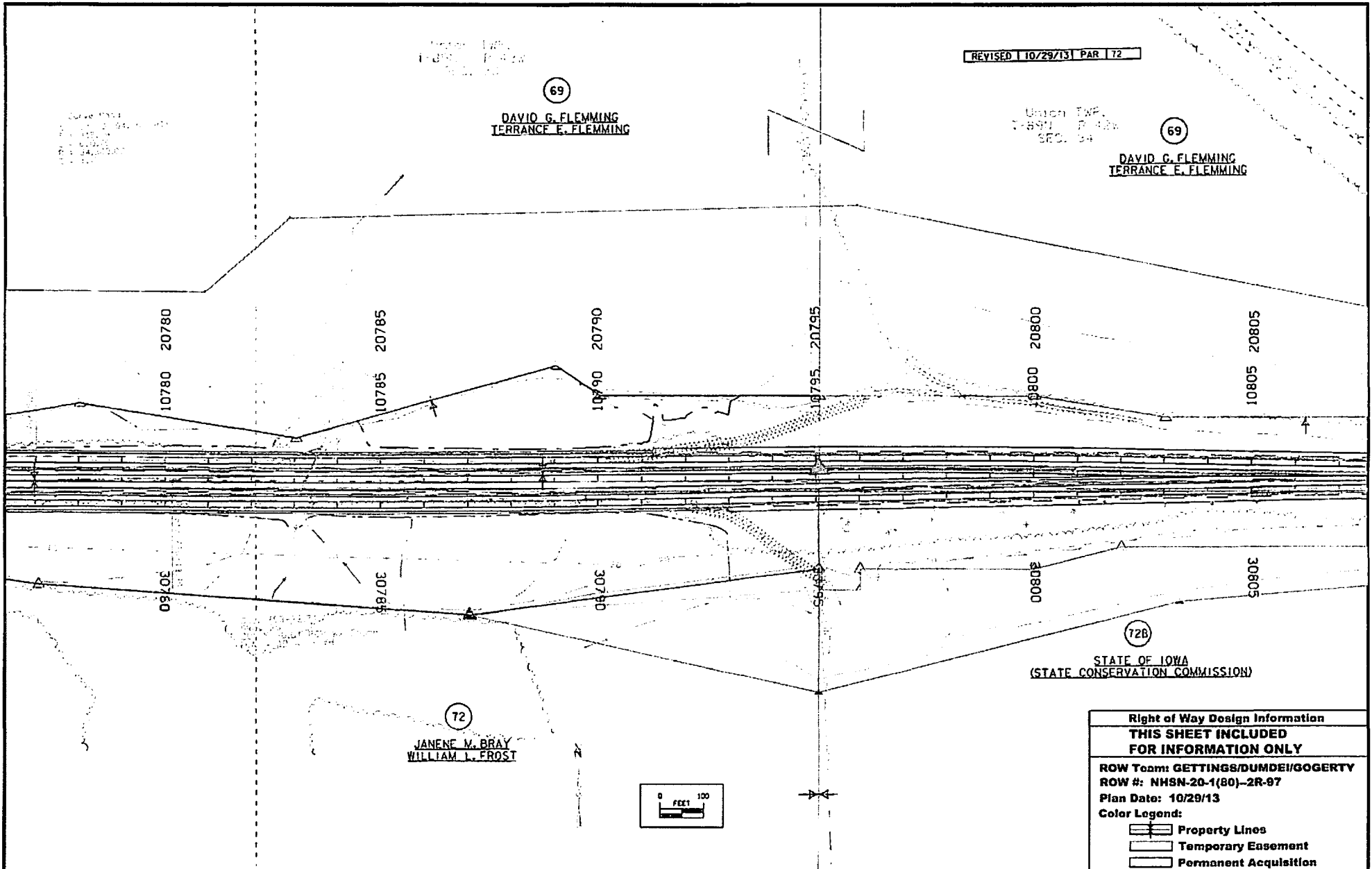
DAVID G. FLEMING  
TERRANCE E. FLEMING

Union Twp.  
T88N R14W  
SEC. 34

69

DAVID G. FLEMING  
TERRANCE E. FLEMING

Curve Data  
R=1000.00  
L=100.00  
E=10.00  
T=10.00  
P=10.00



<b>Right of Way Design Information</b>	
<b>THIS SHEET INCLUDED FOR INFORMATION ONLY</b>	
ROW Team: GETTINGS/DUMDEI/GOGERTY	
ROW #: NHSN-20-1(80)-2R-97	
Plan Date: 10/29/13	
<b>Color Legend:</b>	
	Property Lines
	Temporary Easement
	Permanent Acquisition

# A d d e n d u m

Iowa Department of Transportation  
Office of Contracts

Date of Letting: October 20, 2015  
Date of Addendum: October 16, 2015

<b>B.O.</b>	<b>Proposal ID</b>	<b>Proposal Work Type</b>	<b>County</b>	<b>Project Number</b>	<b>Addendum</b>
103	97-0201-133	PCC PAVEMENT - GRADE AND NEW	WOODBURY	NHSX-020-1(130)--3H-97 NHSX-020-1(133)--3H-97 NHSX-020-1(147)--3H-97 NHSX-020-1(149)--3H-97 NHSX-020-1(170)--3H-97	20OCT103.A04

Make the following change to the plans:

NHSX-020-1(170)--3H-97

Replace SHEET NUMBER C1, SHEET NUMBER C3.

With the attached:

SHEET NUMBER C1, SHEET NUMBER C3.

**PROJECT DESCRIPTION**

100-1D  
10-18-09

This project involves the traffic signs for the new westbound and eastbound lanes from just west of Minnesota Ave. east to west of Correctionville in Section 1 of the four lane U.S. 20 corridor project.

This project is to be constructed in two phases, following the staging of project MSX-020-1(133)--3H-97. The ultimate buildout condition is depicted in these plans and the signing that is to be installed in each phase is noted as such.

**ESTIMATED PROJECT QUANTITIES  
(1 DIVISION PROJECT)**

100-1A  
07-15-97

Item No.	Item Code	Item	Unit	Total	As Built Qty.
1	2524-6765010	REMOVE AND REINSTALL SIGN AS PER PLAN	EACH	4	
2	2524-6765110	REMOVAL OF TYPE A SIGN	EACH	22	
3	2524-9089110	DELINEATOR, RIGID - TYPE 1A	EACH	132	
4	2524-9210000	MILEPOST MARKERS	EACH	6	
5	2524-9275222	WOOD POSTS FOR TYPE A OR B SIGNS, 4 IN. X 6 IN.	LF	68.0	
6	2524-9276810	PERFORATED SQUARE STEEL TUBE POSTS	LF	653.0	
7	2524-9276021	PERFORATED SQUARE STEEL TUBE POST ANCHOR, BREAK-AWAY SOIL INSTALLATION	EACH	33	
8	2524-9276027	PERFORATED SQUARE STEEL TUBE POST ANCHOR, TRIANGULAR SLIP BASE ASSEMBLY	EACH	8	
9	2524-9290009	SIGN MOUNTING BRACKETS, SPECIAL	EACH	6	
10	2524-9325001	TYPE A SIGNS, SHEET ALUMINUM	SF	347	
11	2528-8445110	TRAFFIC CONTROL	LS	1.00	
12	2533-4980005	MOBILIZATION	LS	1.00	

**ESTIMATE REFERENCE INFORMATION**

100-4A  
10-29-02

Item No.	Item Code	Description
1	2524-6765010	REMOVE AND REINSTALL SIGN AS PER PLAN Refer to Tabulations 190-50 and 190-62.  The Contractor shall remove each sign and the hardware used to secure the sign to another sign, posts, or sign support structure. For signs mounted directly to posts, removal of the sign shall include removal of the posts. Posts may be either wood posts or steel breakaway sign posts. The removal of concrete footings for steel breakaway sign posts will be measured and paid for separately.  Holes remaining from the removal of wood posts shall be backfilled with suitable earth to the original level or to the natural ground surface in accordance with Article 2402.09 of the Standard Specifications. All steel posts removed shall become the property of the Contractor. Unless otherwise noted, wood posts removed shall remain the property of DOT. The Contractor shall deliver the wood posts to a DOT storage area within 50 miles, as designated by the Engineer.  **The existing sign shall be removed and stored. The Contractor shall remove the sign and transport it to a DOT storage area within 50 miles, as designated by the Engineer. The Contractor shall transport the sign back to the job site when ready for reinstallation.  The Contractor shall furnish all necessary hardware to install the signs. When the new installation is similar to the original installation, unless otherwise noted, the existing hardware may be used to reinstall the sign.  Signs damaged by the Contractor's activities shall be replaced at the Contractor's expense. Replacement materials shall be new. The DOT will furnish all details necessary for fabrication of the replacement materials.  METHOD OF MEASUREMENT: The Engineer will count each sign removed and reinstalled.  BASIS OF PAYMENT: For each sign removed and reinstalled, the Contractor shall be paid the contract unit price.
2	2524-6765110	REMOVAL OF TYPE A SIGN Refer to Tabulation 190-62 for location and details.  Item is for the removal of sheet aluminum, galvanized sheet or plywood sign panel from its support structure i.e. wood/steel posts, overhead truss or another sign.  Measurement: Each. The Engineer will count the number of Type A sign panels removed.  Payment: The Contractor will be paid the contract unit price for each Type A sign panel removed.
3	2524-9089110	DELINEATOR, RIGID - TYPE 1A
4	2524-9210000	MILEPOST MARKERS Refer to Tabulation 190-25 for locations and details.  Removal of existing delineators and mileposts shall be incidental.
5	2524-9275222	WOOD POSTS FOR TYPE A OR B SIGNS, 4 IN. X 6 IN. Refer to Tabulation 190-51 for locations and details.

**STANDARD ROAD PLANS**

100-4  
10-18-13

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

Number	Date	Title
SI-101	04-21-09	Locations - Type 'A' Signs
SI-102	10-20-09	Locations - Type 'B' Signs
SI-110	10-20-09	Support Structures - Mounting Brackets
SI-121	04-20-10	Fabrication - Sign Legend Components
SI-123	10-20-09	Fabrication - Type 'B' Signs
SI-131	10-18-11	Installation - Type 'A' Signs
SI-132	04-20-10	Installation - Type 'B' Signs
SI-171	10-20-09	Reference Posts
SI-172	04-15-14	Delineators
TC-1	04-16-13	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-402	04-21-15	Work Within 15 ft of Traveled Way

**ESTIMATE REFERENCE INFORMATION**

100-4A  
10-29-02

Item No.	Item Code	Description
6	2524-9276810	PERFORATED SQUARE STEEL TUBE POSTS
7	2524-9276021	PERFORATED SQUARE STEEL TUBE POST ANCHOR, BREAK-AWAY SOIL INSTALLATION
8	2524-9276027	PERFORATED SQUARE STEEL TUBE POST ANCHOR, TRIANGULAR SLIP BASE ASSEMBLY Refer to Tabulation 190-51 for locations and details.
9	2524-9290009	SIGN MOUNTING BRACKETS, SPECIAL Refer to Tabulation 190-51 for locations and details.  Measurement: Each.  Payment: The Contractor will be paid the contract unit price for each sign mounting bracket furnished and installed.
10	2524-9325001	TYPE A SIGNS, SHEET ALUMINUM Refer to Tabulation 190-51 and 190-66 for locations and details.
11	2528-8445110	TRAFFIC CONTROL
12	2533-4980005	MOBILIZATION



**REQUIRED CONTRACT PROVISIONS  
FEDERAL-AID CONSTRUCTION CONTRACTS**

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

**ATTACHMENTS**

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

**I. GENERAL**

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

**II. NONDISCRIMINATION**

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

**1. Equal Employment Opportunity:** Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

**2. EEO Officer:** The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

**3. Dissemination of Policy:** All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

**4. Recruitment:** When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

**5. Personnel Actions:** Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

**6. Training and Promotion:**

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

**7. Unions:** If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

**8. Reasonable Accommodation for Applicants / Employees with Disabilities:** The contractor must be familiar

with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

**9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment:** The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

**10. Assurance Required by 49 CFR 26.13(b):**

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

**11. Records and Reports:** The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

### III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

### IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

#### 1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions

of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

## 2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

## 3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-

Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee ( e.g. , the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

#### 4. Apprentices and trainees

##### a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly

rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

##### b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

**5. Compliance with Copeland Act requirements.** The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

**6. Subcontracts.** The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

**7. Contract termination: debarment.** A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

**8. Compliance with Davis-Bacon and Related Act requirements.** All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

**9. Disputes concerning labor standards.** Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

**10. Certification of eligibility.**

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

**V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT**

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

**1. Overtime requirements.** No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

**2. Violation; liability for unpaid wages; liquidated damages.** In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

**3. Withholding for unpaid wages and liquidated damages.** The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

**4. Subcontracts.** The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

## VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

- (1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
- (2) the prime contractor remains responsible for the quality of the work of the leased employees;
- (3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
- (4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is

evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

## VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

## VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

#### **IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.
2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

#### **X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION**

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

##### **1. Instructions for Certification – First Tier Participants:**

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

\* \* \* \* \*

## **2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:**

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

## **2. Instructions for Certification - Lower Tier Participants:**

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

\*\*\*\*\*

**Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:**

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

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**XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

The attached wage rate IA 15-1.1a is identical to both the previous IA 15-1.0 and IA 15-1.1. Both are General Decision Number: IA150001, Modification Number: 0, Publication Date: 01/02/2015.

The new specification numbers IA 15-1.1 and IA 15-1.1a were created and assigned to proposals in an effort to implement new statewide wage rate modifications. However, at the time of issuing this specification, the United States Department of Labor has not published those rate modifications so they may not be assigned to contracts. Therefore, the previous rate: General Decision Number: IA150001, Modification Number: 0, Publication Date: 01/02/2015 is being incorporated into applicable contracts under the new specification number IA 15-1.1a – attached.

**PREDETERMINED WAGE RATE**

**IA15 - 1.1a**

General Decision Number: IA150001 01/02/2015 IA1

Superseded General Decision Number: IA20140001

State: Iowa

Construction Types: Heavy and Highway

Counties: Adair, Adams, Allamakee, Appanoose, Audubon, Benton, Black Hawk, Boone, Bremer, Buchanan, Buena Vista, Butler, Calhoun, Carroll, Cass, Cedar, Cerro Gordo, Cherokee, Chickasaw, Clarke, Clay, Clayton, Clinton, Crawford, Dallas, Davis, Decatur, Delaware, Des Moines, Dickinson, Dubuque, Emmet, Fayette, Floyd, Franklin, Fremont, Greene, Grundy, Guthrie, Hamilton, Hancock, Hardin, Harrison, Henry, Howard, Humboldt, Ida, Iowa, Jackson, Jasper, Jefferson, Johnson, Jones, Keokuk, Kossuth, Lee, Linn, Louisa, Lucas, Lyon, Madison, Mahaska, Marion, Marshall, Mills, Mitchell, Monona, Monroe, Montgomery, Muscatine, O'Brien, Osceola, Page, Palo Alto, Plymouth, Pocahontas, Polk, Pottawattamie, Poweshiek, Ringgold, Sac, Shelby, Sioux, Story, Tama, Taylor, Union, Van Buren, Wapello, Warren, Washington, Wayne, Webster, Winnebago, Winneshiek, Woodbury, Worth and Wright Counties in Iowa.

**STATEWIDE EXCEPT SCOTT COUNTY HEAVY CONSTRUCTION PROJECTS**

(Does not include work on or pertaining to the Mississippi or Missouri Rivers or on Water and Sewage Treatment Plants), AND HIGHWAY PROJECTS (does not include building structures in rest areas)

Note: Executive Order (EO) 13658 establishes an hourly minimum wage of \$10.10 for 2015 that applies to all contracts subject to the Davis-Bacon Act for which the solicitation is issued on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.10 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

Modification Number	Publication Date
0	01/02/2015

\* SUIA2002-003 02/28/2012

CARPENTERS AND PILEDRIVERMEN:	Rates	Fringes
ZONE 1	24.92	9.93
ZONE 2	22.83	9.93
ZONE 3	22.83	9.93
ZONE 4	22.15	8.25
ZONE 5**	21.25	6.85

**PREDETERMINED WAGE RATE****IA15 - 1.1a****CONCRETE FINISHER:**

ZONE 1	22.70	7.00
ZONE 2	22.70	7.00
ZONE 3	22.70	7.00
ZONE 4	20.50	5.45
ZONE 5	18.90	6.00

**ELECTRICIANS: (STREET AND HIGHWAY LIGHTING AND TRAFFIC SIGNALS)**

ZONE 1, ZONE 2, AND ZONE 3	21.30	5.70
ZONE 4	20.00	5.70
ZONE 5	17.75	5.70

**IRONWORKERS: (SETTING OF STRUCTURAL STEEL)**

ZONE 1	26.55	7.45
ZONE 2	25.31	7.45
ZONE 3	25.01	7.75
ZONE 4	22.00	6.60
ZONE 5**	21.25	6.10

**LABORERS:**

	Rates	Fringes
ZONE 1, ZONE 2, AND ZONE 3		
GROUP A	20.56	7.95
GROUP AA	22.21	7.95
GROUP B	18.68	7.95
GROUP C	15.45	7.95
ZONE 4		
GROUP A	18.05	7.65
GROUP B	16.73	7.65
GROUP C	13.85	7.65
ZONE 5		
GROUP A	18.50	6.00
GROUP B	15.75	6.00
GROUP C	15.15	6.00

**POWER EQUIPMENT OPERATORS:**

ZONE 1		
GROUP A	27.80	12.90
GROUP B	26.25	12.90
GROUP C	23.75	12.90
GROUP D	23.75	12.90
ZONE 2		
GROUP A	27.10	12.90
GROUP B	25.50	12.90
GROUP C	22.95	12.90
GROUP D	22.95	12.90

**PREDETERMINED WAGE RATE**

**IA15 - 1.1a**

**ZONE 3**

GROUP A	26.70	16.80
GROUP B	24.90	16.80
GROUP C	23.90	16.80
GROUP D	23.90	16.80

**ZONE 4**

GROUP A	26.75	8.55
GROUP B	25.61	8.55
GROUP C	23.53	8.55
GROUP D	23.53	8.55

**ZONE 5**

GROUP A	23.07	6.80
GROUP B	22.03	6.80
GROUP C	20.70	6.80
GROUP D	19.70	6.80

**TRUCK DRIVER (AND PAVEMENT MARKING DRIVER/SWITCHPERSON)**

ZONE 1	20.00	10.05
ZONE 2	20.00	10.05
ZONE 3	20.00	10.05
ZONE 4	20.20	5.65
ZONE 5	18.25	5.65

**ZONE DEFINITIONS**

- ZONE 1      The Counties of Polk, Warren and Dallas for all Crafts, and Linn County Carpenters only.
- ZONE 2      The Counties of Dubuque for all Crafts and Linn County for all Crafts except Carpenters.
- ZONE 3      The Cities of Burlington, Clinton, Fort Madison, Keokuk, and Muscatine (and abutting municipalities of any such cities).
- ZONE 4      Story, Black Hawk, Cedar, Jasper, Jones, Jackson, Louisa, Madison, and Marion Counties; Clinton County (except the City of Clinton), Johnson County, Muscatine County (except the City of Muscatine), the City of Council Bluffs, Lee County and Des Moines County.
- ZONE 5      All areas of the state not listed above.

**LABORER CLASSIFICATIONS - ALL ZONES**

GROUP AA – Asbestos abatement worker (Zones 1, 2, and 3); Skilled pipelayer (sewer, water and conduits) and tunnel laborers (zones 1, 2 and 3).

GROUP A – Asbestos abatement worker (Zones 4 and 5); Carpenter tender on bridges and box culverts; curb machine (without a seat); deck hand; diamond & core drills; drill operator on air tracs, wagon drills and similar drills; form setter/stringman on paving work; gunnite nozzleman;

## **PREDETERMINED WAGE RATE**

**IA15 - 1.1a**

joint sealer kettleman; laser operator; pipelayer (sewer, water, and conduits) Zone 4 & 5; powderman tender; powderman/blaster; saw operator; tunnel laborer (zones 4 and 5).

GROUP B - Air, gas, electric tool operator; barco hammer; carpenter tender; caulker; chain sawman; compressor (under 400 cfm); concrete finisher tender; concrete processing materials and monitors; cutting torch on demolition; drill tender; dumpmen; electric drills; fence erectors; form line expansion joint assembler; form tamper; general laborer; grade checker; handling and placing metal mesh, dowel bars, reinforcing bars and chairs; hot asphalt laborer; installing temporary traffic control devices; jackhammerman; mechanical grouter; painter (all except stripers); paving breaker; planting trees, shrubs and flowers; power broom (not self-propelled); power buggyman; rakers; rodman (tying reinforcing steel); sandblaster; seeding and mulching; sewer utility topman/bottom man; spaders; stressor or stretcherman on pre or post tensioned concrete; stringman on re/surfacing/no grade control; swinging stage, tagline, or block and tackle; tampers; timberman; tool room men and checkers; tree climber; tree groundman; underpinning and shoring caissons over twelve feet deep; vibrators; walk behind trencher; walk behind paint stripers; walk behind vibrating compactor; water pumps (under three inch); work from bosun chair.

GROUP C - Scale weigh person; traffic control/flagger, surveillance or monitor; water carrier.

## **POWER EQUIPMENT OPERATOR CLASSIFICATIONS - ALL ZONES**

GROUP A - All terrain (off road) forklift, Asphalt breakdown roller (vibratory); Asphalt laydown machine; asphalt plant; Asphalt screed; bulldozer (finish); central mix plant; concrete pump; crane; crawler tractor pulling scraper; directional drill (60,000 (lbs) pullback and above); dragline and power shovel; dredge engineer; excavator (over ½ cu. yd.); front end loader (4 cy and over); horizontal boring machine; master mechanic; milling machine (over 350 hp); motor grader (finish); push cat; rubber tired backhoe (over ½ cu. yd.); scraper (12 cu. yd. and over or finish); Self-propelled rotary mixer/road reclaiming; sidebroom tractor; slipform portland concrete paver; tow or push boat; trenching machine (Cleveland 80 or similar).

GROUP B - Articulated off road hauler, asphalt heater/planer; asphalt material transfer vehicle; Asphalt roller; belt loader or similar loader; bulldozer (rough); churn or rotary drill; concrete curb machine; crawler tractor pulling ripper, disk or roller; deck hand/oiler; directional drill (less than 60,000 (lbs) pullback); distributor; excavator (1/2 cu. yd. and under); form riding concrete paver; front end loader (2 to less than 4 cu. yd.); group equipment greaser; mechanic; milling machine (350 hp. and less); paving breaker; portland concrete dry batch plant; rubber tired backhoe (1/2 cu. yd. and under); scraper (under 12 cu. yd.); screening, washing and crushing plant (mobile, portable or stationary); shoulder machine; skid loader (1 cu. yd. and over); subgrader or trimmer; trenching machine; water wagon on compaction.

GROUP C - Boom & winch truck; concrete spreader/belt placer; deep wells for dewatering; farm type tractor (over 75 hp.) pulling disc or roller; forklift; front end loader (under 2 cu. yd.); motor grader (rough); pile hammer power unit; pump (greater than three inch diameter); pumps on well points; safety boat; self-propelled roller (other than asphalt); self-propelled sand blaster or shot blaster, water blaster or striping grinder/remover; skid loader (under 1 cu. yd.); truck mounted post driver.

**PREDETERMINED WAGE RATE**

**IA15 - 1.1a**

GROUP D - Boiler; compressor; cure and texture machine; dow box; farm type or utility tractor (under 75 hp.) pulling disk, roller or other attachments; group greaser tender; light plants; mechanic tender; mechanical broom; mechanical heaters; oiler; pumps (under three inch diameter); tree chipping machine; truck crane driver/oiler.

**\*\*CARPENTERS AND PILEDRIVERMEN, or IRONWORKERS (ZONE 5)**

Setting of structural steel; any welding incidental to bridge or culvert construction; setting concrete beams.

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WELDERS: Receive rate prescribed for craft performing operation to which welding is incidental.  
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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR 5.5 (a) (1) (ii)).  
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The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

**Union Rate Identifiers**

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

**Survey Rate Identifiers**

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in

## **PREDETERMINED WAGE RATE**

**IA15 - 1.1a**

the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

### **Union Average Rate Identifiers**

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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## **WAGE DETERMINATION APPEALS PROCESS**

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U. S. Department of Labor  
200 Constitution Avenue, N. W.  
Washington, D. C. 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N. W.  
Washington, D. C. 20210

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The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

- 3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U. S. Department of Labor  
200 Constitution Avenue, N. W.  
Washington, D. C. 20210

- 4.) All decisions by the Administrative Review Board are final.

**END OF GENERAL DECISION**