

A d d e n d u m

Iowa Department of Transportation
Office of Contracts

Date of Letting: February 21, 2017
Date of Addendum: January 31, 2017

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
005	45-C045-080	RCB CULVERT REPLACEMENT- TRIPLE BOX	HOWARD	BRS-C045(80)--60-45	21FEB005A01

Make the following changes to the PROPOSAL SCHEDULE OF PRICES:

Add Proposal Line No. 0035 2121-7425020 GRANULAR SHOULDER, TYPE B; 209.000 TON

Add Proposal Line No. 0075 2402-0425040 FLOODED BACKFILL; 46.700 CY

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

Make the following changes to the PLAN:

Replace SHEET 2 of 6 with the attached SHEET 2 of 6.

Note: SHEET 2 added the above 2 items with a Reference Information Note for each and added the following note to the General Notes: 'BERMS WILL BE CONSTRUCTED TO THE BOTTOM OF THE PROPOSED GRANULAR SHOULDER.'

ESTIMATED PROJECT QUANTITIES				
ITEM NO.	ITEM CODE	ITEM	UNIT	TOTAL
1.	2102-2710070	EXCAVATION CL 10, ROADWAY & BORROW	CY	252.0
2.	2104-2710020	EXCAVATION CL 10, CHANNEL	CY	177.0
3.	2115-0100000	MODIFIED SUBBASE	CY	179.0
4.	2121-7425020	GRANULAR SHOULDER, TYPE B	TON	209.0
5.	2301-1003120	STD/S-F PCC PAV'T, QM-C CL 3, 12"	SY	488.9
6.	2401-6745650	RMVL OF EXISTING STRUCTURES	LS	1.0
7.	2402-2723000	EXCAVATION CL 23	CY	215.0
8.	2402-2725005	FOUNDATION TREATMENT MATERIAL	TON	183.0
9.	2402-0425040	FLOODED BACKFILL	CY	46.7
10.	2415-2111210	PRECAST CONC BOX CULV, 12' X 10'	LF	126.0
11.	2415-2201210	PRECAST CONC BOX CULV ST END SEC, 12' X 10'	EACH	6.0
12.	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL	LF	300.0
13.	2505-4008300	STEEL BEAM GUARDRAIL	LF	212.5
14.	2505-4021720	STEEL BEAM GUARDRAIL TANGENT END TERMINAL, BA-205	EACH	4.0
15.	2505-4502100	STEEL BEAM GUARDRAIL, POST ADAPTOR UNIT, BA-210	EACH	14.0
16.	2506-4984000	FLOWABLE MORTAR	CY	51.6
17.	2507-6800061	REVETMENT, CLASS E	TON	100.0
18.	2510-6745850	REMOVAL OF PAVEMENT	SY	488.9
19.	2518-6910000	SAFETY CLOSURE	EACH	2.0
20.	2528-8445110	TRAFFIC CONTROL	LS	1.0
21.	2533-4980005	MOBILIZATION	LS	1.0
22.	2602-0000030	SILT FENCE - DITCH CHECKS	LF	180.0
23.	2602-0000101	MAINTENANCE OF SILT FENCE AND DITCH CHECKS	LF	180.0

REF. NO.

REFERENCE INFORMATION

1.

EXCAVATION CLASS 10 FROM STATION 9+79 TO STATION 11+79 – 12” DEPTH BELOW PAVEMENT REMOVAL. ALL SUITABLE MATERIAL TO BE STORED ON SITE FOR GUARDRAIL BERMS. ANY UNDESIRABLE MATERIAL TO BE HAULED TO A SUITABLE LOCATION BY CONTRACTOR AT NO EXTRA PAYMENT.
2.

THE CONTRACTOR SHALL LEVEL OFF AND SHAPE THE BERMS PRIOR TO PLACEMENT OF THE PRECAST BOX CULVERT. ALL SUITABLE MATERIAL TO BE STORED ON SITE FOR GUARDRAIL BERMS. ANY UNDESIRABLE MATERIAL TO BE HAULED TO A SUITABLE LOCATION BY CONTRACTOR AT NO EXTRA PAYMENT.
3.

MODIFIED SUBBASE FROM STATION 9+79 TO STATION 11+79. 8” THICKNESS FOR PCC PAVING THRU STRUCTURE.
4.

GRANULAR SHOULDERS TYPE B FROM STATION 9+79 TO STATION 11+79, 12” THICKNESS - FIGURED AT 140 LBS/CF.
5.

DOUBLE REINFORCED FROM STATION 9+79 TO STATION 11+79, 12” THICKNESS 22’ WIDTH. CERTIFIED PLANT INSPECTION IS REQUIRED.
6.

THE EXISTING BRIDGE IS A THREE CELL CONCRETE BOX CULVERT (10,12,10) X 10 ‘ RISE. THE CONTRACTOR SHALL REMOVE THE STRUCTURE TO THE EXTENT THAT IT WILL NOT INTERFERE WITH THE NEW CONSTRUCTION. THE PLANS OF THE EXISTING STRUCTURE SHOW THAT THERE MAY BE PILING BENEATH THE FOOTINGS OF THE CONCRETE WALLS. ALL MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.
7.

SUITABLE EXCAVATION CLASS 23 SHALL BE STORED ON SITE AND USED TO BACKFILL THE PRECAST BOX CULVERT. ANY UNDESIRABLE MATERIAL TO BE HAULED TO A SUITABLE LOCATION BY CONTRACTOR AT NO EXTRA PAYMENT.
8.

THE FOUNDATION TREATMENT MATERIAL SHALL BE CONSTRUCTED TO A DEPTH OF 1’-0”. LENGTH AND WIDTH SHALL BE CONSTRUCTED TO EXTEND 1’-0” BEYOND THE OUTSIDE WALLS AND END SECTIONS OF THE PROPOSED BOX CULVERT. GRANULAR MATERIAL TO COMPLY WITH SPECIFICATIONS FOR GRADATION #13 MACADAM ST. BASE.
9.

FLOODED BACKFILL PER ROAD STANDARD DR-111.
10.

TO BE MANUFACTURED PER APPLICABLE STANDARDS. PRECAST SECTIONS SHALL BE CONSTRUCTED FOR A COVER LESS THAN 2’-0” OF FILL MATERIAL OVER THE TOP OF THE BOX CULVERT. THE CULVERT SHALL BE PLACED IN THREE LINES (42.0’ EACH LINE PLUS 10’-0” LENGTH OF END SECTION EACH END OF EACH LINE). JOINT TIES AND ROPE MASTIC FOR ALL JOINTS WILL BE INCIDENTAL TO THIS ITEM. ROPE MASTIC TO BE WRAPPED AROUND ENTIRE PERIMETER OF BOX CULVERT SECTIONS.
11.

CONSTRUCT END SECTIONS TO A LENGTH OF 10’0” FOR EACH END OF EACH LINE (SEE END SECTION TYPICAL SHEET 4). TO BE MANUFACTURED PER APPLICABLE STANDARDS. PRECAST SECTIONS SHALL BE TYPE I, CONSTRUCTED FOR A COVER LESS THAN 2’-0” OF FILL MATERIAL OVER THE TOP OF THE BOX CULVERT. CONSTRUCTION OF 1’0” X 1’0” PARAPET WALLS WILL BE INCIDENTAL TO THIS ITEM. CONSTRUCTION OF 1’0” X 2’0” CURTAIN WALLS WILL BE INCIDENTAL TO THIS ITEM. CONTRACTOR HAS THE OPTION TO USE PRECAST OR CAST IN PLACE PARAPET AND CURTAIN WALLS. IF CAST IN PLACE OPTION IS CHOSEN A SUITABLE DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. NOTE: PARAPET WALLS SHALL BE CONSTRUCTED TO BE PARALLEL TO ROADWAY.
12.

SEE TABULATION SHEET 6 FOR INFORMATION PERTAINING TO GUARDRAIL REMOVAL.
- 13-15.

SEE SHEET 6 FOR GUARDRAIL LAYOUT AND TABULATION.
16.

FLOWABLE MORTAR OR CONCRETE MIX TO BE PLACED BETWEEN CULVERT LINES TO FILL ENTIRE AREA OF SEAM. CERTIFIED PLANT INSPECTION IS REQUIRED.
17.

REVETMENT TO BE PLACED AT A THICKNESS OF 1’-6” ALL FOUR CORNERS OF BOX CULVERT.
18.

EXISTING SURFACE CONSISTS OF 6” PCC, 2” AC OVERLAY & 3/8” SEAL COAT. ALSO SEE EXISTING CROSS SECTION INFORMATION ON SHEET 3.
19.

SEE TABULATION SHEET 6 FOR SAFETY CLOSURE LOCATION.
22.

SEE TABULATION SHEET 6 FOR SILT FENCE LOCATION.

STANDARD ROAD PLANS			105-4
			04-20-10
The following Standard Road Plans shall be considered applicable to construction work on this project.			
Number	Date	Title	
BA-200	10-18-16	STEEL BEAM GUARDRAIL COMPONENTS	
BA-201	10-18-16	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION	
BA-202	10-20-15	STEEL BEAM GUARDRAIL BOLTED END ANCHOR	
BA-205	04-19-16	STEEL BEAM GUARDRAIL END TERMINAL	
BA-210	04-19-16	GUARDRAIL POST ADAPTOR UNIT	
BA-250	10-18-16	STEEL BEAM GUARDRAIL INSTALLATION AT CONCRETE BARRIER OR BRIDGE END POST	
BA-251	04-19-16	STEEL BEAM GUARDRAIL INSTALLATION AT SIDE OBSTACLE (TWO-WAY PROTECTION)	
EW-101	10-20-15	EMBANKMENT AND REBUILDING EMBANKMENTS	
EW-102	10-20-15	ALLOWABLE PLACEMENT OF UNSUITABLE SOIL IN EMBANKMENTS	
EW-301	10-20-15	GUARDRAIL GRADING	
DR-111	04-21-15	BOX CULVERT (BACKFILL)	
PR-120	10-21-14	DOUBLE REINFORCED PAVEMENT OVER BOX CULVERTS	
PV-101	04-19-16	JOINTS	
SI-173	04-19-16	OBJECT MARKERS	
SI-211	10-18-16	OBJECT MARKER AND DELINEATOR PLACEMENT WITH GUARDRAIL	
TC-1	04-16-13	WORK NOT AFFECTING TRAFFIC	
TC-252	04-19-16	ROAD CLOSURE TO TRAFFIC	

GENERAL NOTES

HOWARD COUNTY TO BE RESPONSIBLE FOR DETOUR SIGNING AND DETOUR ROUTE MAINTENANCE INCLUDING DUST CONTROL.

HOWARD COUNTY TO BE RESPONSIBLE FOR CONSTRUCTION STAKING.

HOWARD COUNTY TO BE RESPONSIBLE FOR CONSTRUCTION OF GUARDRAIL BERMS. BERMS WILL BE CONSTRUCTED TO THE BOTTOM OF THE PROPOSED GRANULAR SHOULDER.

HOWARD COUNTY TO BE RESPONSIBLE FOR REMOVAL OF SILT FENCES.

HOWARD COUNTY TO BE RESPONSIBLE FOR SEEDING.

THE CONTRACTOR SHALL VISIT THE CONSTRUCTION SITE TO ENSURE THAT THEY ARE FAMILIAR WITH THE EXISTING SITE CONDITIONS.

CERTIFIED PLANT INSPECTION IS REQUIRED FOR ALL CONCRETE INCORPORATED INTO THIS PROJECT.

THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK. SHOULD ANY UNDERGROUND UTILITIES BE FOUND, THEY SHALL BE PROTECTED IN PLACE AND THE CONTRACTING AUTHORITY SHALL BE IMMEDIATELY NOTIFIED. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. UTILITY COMPANIES WHOSE FACILITIES ARE KNOWN TO BE WITHIN THE CONSTRUCTION LIMITS SHALL BE NOTIFIED BY THE CONTRACTOR OF THE CONSTRUCTION START DATE.

ALL SUITABLE FILL MATERIAL SHALL BE PLACED WITHIN 200 FEET OF THE EXISTING STRUCTURE FOR GUARDRAIL BERM CONSTRUCTION. ANY UNSUITABLE MATERIAL SHALL BE WASTED OFF SITE TO A LOCATION PROVIDED BY THE CONTRACTOR AND NOTED TO THE ENGINEER. NO EXTRA PAYMENT WILL BE MADE FOR THE COST OF WASTING ANY UNDESIRABLE MATERIAL. NO PAYMENT FOR OVERHAUL WILL BE MADE.

THE CONTRACTOR IS RESPONSIBLE FOR CONDUCTING AN INDEPENDENT CHECK OF ALL CONSTRUCTION STAKES PLACED FOR THE PROJECT. THIS INDEPENDENT CHECK SHALL BE SUFFICIENT TO UNDERSTAND THE PLACEMENT AND INTENT OF THE STAKES.

ACCESS SHALL BE MAINTAINED TO INDIVIDUAL PROPERTIES DURING CONSTRUCTION. ALSO, THE CONTRACTOR IS TO RESHAPE ANY AREAS DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION.

HAUL ROADS

PER SPECIFICATION 1107.07 E. THIS INCLUDES HAULING RAW MATERIALS TO PLANT SITE OVER ROCK SURFACED ROADS OR HAULING FINISHED PRODUCT TO PROJECT OVER ROCK SURFACED ROADS.

Design for

Triple 12’ X 10’ PreCast RCB

HOWARD COUNTY

Co. Bridge No. P-13

IOWA

FHWA #182250