

A d d e n d u m

Iowa Department of Transportation
Office of Contracts

Date of Letting: May 16, 2017
Date of Addendum: May 9, 2017

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
011	97-0296-284	PPCB REPAIR	Woodbury	IMN-029-6 (284) 132--0E -97	16MAY011A01

Make the following changes to the plan:

REPLACE SHEET NUMBER 3 with the attached SHEET NUMBER 3.

Summary of change to the plan:

SOUTHBOUND I-29 TRAFFIC WILL BE MAINTAINED EXCEPT FOR BRIEF PERIODS OF CLOSURE TO ACCOMODATE BEAM REMOVAL AND BEAM REPLACEMENT AS DETAILED AND NOTED ON THESE PLANS.

GENERAL NOTES:

IT IS THE INTENT OF THIS DESIGN TO REPLACE BEAM 1 IN SPAN 2.

COPIES OF THE ORIGINAL DESIGN PLANS WILL BE 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 OF ORIGINAL DESIGN NO. 958 WOODBURY COUNTY.

HEAVY CONSTRUCTION EQUIPMENT WILL NOT BE ALLOWED ON THE BRIDGE DURING CONSTRUCTION UNLESS PRIOR WRITTEN APPROVAL OF THE ENGINEER IS OBTAINED. APPROVAL SHALL BE OBTAINED BY SUBMITTING A WRITTEN REQUEST TO THE ENGINEER. THE REQUEST SHALL INCLUDE THE FOLLOWING:

1. A DETAILED PLAN ADEQUATELY DESCRIBING THE EQUIPMENT AND HOW IT IS PROPOSED TO BE USED. THIS PLAN SHALL CONTAIN, AS A MINIMUM, THE FOLLOWING INFORMATION:
 - A. THE CONFIGURATION AND WEIGHT OF THE EQUIPMENT PROPOSED TO BE PLACED ON THE BRIDGE INCLUDING THE DEAD LOAD WEIGHT OF ALL WHEELS/AXLES.
 - B. THE PROPOSED LOCATION(S) OF THE EQUIPMENT ON THE BRIDGE DURING ALL LIFTING OPERATIONS.
 - C. THE WEIGHT OF ALL PROPOSED LIFTS TO BE MADE BY THE EQUIPMENT.
 - D. THE LOAD OF ALL WHEELS/AXLES/OUTRIGGERS RESULTING FROM THE PROPOSED LIFTING OPERATIONS DURING ALL CRITICAL PHASES OF THE LIFTING OPERATIONS.
2. THE NECESSARY CALCULATIONS TO VERIFY THAT NO COMPONENT OF THE BRIDGE WILL BE OVERSTRESSED DURING THE PROPOSED USE OF THE EQUIPMENT ON THE BRIDGE. THE CALCULATIONS SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER CURRENTLY LICENSED TO PRACTICE ENGINEERING IN THE STATE OF IOWA.

ALL DIMENSIONS AND DETAILS SHOWN IN THESE PLANS AND PERTINENT TO NEW CONSTRUCTION IN RELATION TO EXISTING PORTIONS OF THE STRUCTURE SHALL BE VERIFIED IN THE FIELD BY THE BRIDGE CONTRACTOR BEFORE STARTING CONSTRUCTION.

BEAM 1 REPLACEMENT NOTES:

REPAIRS SHALL CONSIST OF THE REMOVAL AND REPLACEMENT OF A PORTION OF THE CONCRETE RETROFIT RAIL, CURB, SLAB, DIAPHRAGMS, AND ONE PRETENSIONED PRESTRESSED CONCRETE BEAM AS DETAILED IN THESE PLANS.

THE EXISTING BEARING PLATES SHALL BE REUSED.

COUNTY ROAD K35 WILL BE MAINTAINED TO TRAFFIC DURING THE CONSTRUCTION PERIOD.

SOUTHBOUND I-29 TRAFFIC WILL BE MAINTAINED EXCEPT FOR BRIEF PERIODS OF CLOSURE TO ACCOMMODATE BEAM REMOVAL AND BEAM REPLACEMENT AS DETAILED AND NOTED ON THESE PLANS.

THE LUMP SUM BID FOR "REMOVALS AS PER PLAN" SHALL INCLUDE ALL COSTS ASSOCIATED WITH REMOVING A PORTION OF THE RAIL, CURB, SLAB, DIAPHRAGMS AND THE DAMAGED PRESTRESSED BEAM. REMOVALS SHALL BE IN ACCORDANCE WITH SECTION 240I OF THE SPECIFICATIONS. ANY DAMAGE TO OTHER PORTIONS OF THE EXISTING STRUCTURE NOT NOTED FOR REMOVAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED AT NO EXTRA COST TO THE STATE.

THE SB70 BEAM IN THIS DESIGN
USES A NON-STANDARD LENGTH
AND TOTAL PRESTRESS FORCE.

CONSTRUCTION SEQUENCE:

THE BRIDGE CONTRACTOR SHALL PERFORM THE REPAIR WORK IN ACCORDANCE WITH THE FOLLOWING PROCEDURES, AS DIRECTED BY THE ENGINEER.

1. ERECT SIGNS TO MAINTAIN ONE TRAFFIC LANE ON COUNTY ROAD K35.
2. REMOVE RETROFIT RAIL IN THE REPAIR AREA.
3. REMOVE PORTION OF CURB, SLAB AND DIAPHRAGMS NECESSARY TO EXPOSE LENGTH OF REINFORCEMENT, AS NOTED AND SHOWN, TO BE INCORPORATED INTO NEW CONCRETE. CARE SHALL BE TAKEN SO THAT NO DEBRIS FALLS ONTO TRAVELED WAY.
4. CAREFULLY REMOVE CURB, SLAB AND BEAM AS ONE UNIT. SINCE THE PRESTRESSED BEAM IS IN POOR CONDITION A STRONG BACK OR OTHER APPARATUS MAY BE REQUIRED TO LIFT THE CURB, SLAB AND PRESTRESSED BEAM AS ONE UNIT. TO FACILITATE THIS REPAIR STEP, SOUTHBOUND I-29 MAY BE CLOSED FOR SHORT PERIODS. SEE TRAFFIC CONTROL PLAN.
5. SET NEW PRETENSIONED PRESTRESSED CONCRETE BEAM IN PLACE. SOUTHBOUND I-29 MAY BE CLOSED FOR SHORT PERIODS WHILE PLACING THE NEW BEAM ON THE PIERS, AS APPROVED BY THE ENGINEER.
6. PLACE NEW CONCRETE SLAB SECTION AND CONCRETE DIAPHRAGM SECTIONS.
7. PLACE NEW CURB. CURB IS PLACED SEPARATELY FROM SLAB.
8. PLACE NEW RAIL.
9. REMOVE SIGNS FROM COUNTY ROAD K35.
10. RE-OPEN TRAFFIC ON COUNTY ROAD K35.

AN ALTERNATE CONSTRUCTION SEQUENCE MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

SPECIFICATIONS:

DESIGN: AASHTO SERIES OF 2002.

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.

DESIGN STRESSES:

DESIGN STRESSES FOR THE FOLLOWING MATERIALS ARE IN ACCORDANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SERIES OF 2002. REINFORCING STEEL IN ACCORDANCE WITH SECTION 8, GRADE 60. CONCRETE IN ACCORDANCE WITH SECTION 8, $f'c = 3,500$ PSI. PRESTRESSED CONCRETE BEAMS, SEE BEAM DESIGN SHEET.

DESIGN FOR 30° SKEW L. A.
**237'-1 x 24'-0 PRETENSIONED
PRESTRESSED CONCRETE BEAM BRIDGE**
47'-3½ END SPANS 71'-3 INTERIOR SPANS
GENERAL NOTES
STA. 11290+26.80 (I-29) MARCH, 2017
WOODBURY COUNTY
IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION
DESIGN SHEET NO. 2 OF 11 FILE NO. 31436 DESIGN NO. 2217