PROJECT NO:

# IOWA **DEPARTMENT OF TRANSPORTATION**

**Highway Division** 

PLANS OF PROPOSED IMPROVEMENT ON THE

# SECONDARY ROAD SYSTEM **WOODBURY COUNTY**

**PRECAST RCB NEW** PROJECT NO. L-B(C278)--73-97

The lowa Department of Transportation Standard Specifications for Highway and Bridge Construction, series of 2015, plus current Supplemental Specifications and Special Provisions shall apply to construction work on this project.

Plus Current Special Provisions and Supplemental Specifications

ON JEWELL AVE, OVER STREAM, FROM 110TH STREET SOUTH 0.7 MILES TO 120TH STREET, ON WEST LINE SEC. 7-89-43 REPLACE EXISTING BRIDGE WITH RCB CULVERT

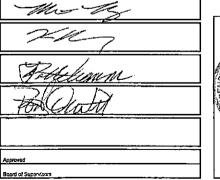
THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF U.S. ARMY CORPS OF ENGINEERS NATIONWIDE PREMIT 15 APRIMIT COLVEY-00-P-2020-0299, A COPPY OF THIS PERMIT IS AVAILABLE FROM THE 10WA DOT OFFICE OF CONTRACTS UPON REQUEST. THE U.S. ARMY CORPS OF ENGINEERS RESERVES THE RIGHT TO VISIT THE SITE WITHOUT PRIOR NOTICE.

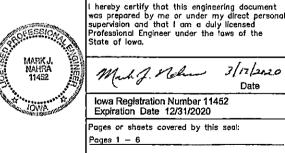
## TRAFFIC CONTROL PLAN

THIS ROAD WAL BE CLOSED TO THROUGH TRAFFIC DURING CONSTRUCTION. TRAFFIC ROUTES ADJACENT TO PROPERTIES WILL BE MANTANES AS PROVIDED FOR HE ARTICLE 1870.06 OF THE CURRENT STANDARD SPECIFICATIONS. TRAFFIC CONTROL DEVICES. PROCEDURES, LAYOUTH, SEGONG, AND PAYMENT MAINSHOS INSTALLED WITHIN THE LIMITS OF THIS PROJECT SHALL CONSTITUTE TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL. DEVICES FOR STREETS AND HOMPAYS" AS ADOPTED BY THE DEPARTMENT PER 781 OF THE

MAINTENANCE OF EIGHS AND BARRICADES AS STATED IN ARTICLE 1107.00 SHALL APPLY ON THIS PROJECT.

SIGNING ON THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN ACCORDANCE WITH ROAD STANDARD TE-252





2015 AADT 50 V.P.D.

Project Number: L-B(C278)--73-97

**INDEX OF SHEETS** No. TITLE SHEET LOCATION PLAN ESTIMATE OF QUANTITIES AND GENERAL INFORMATION PROFILE SHEET SITUATION PLAN

FHWA STRUCTURE #354740

	ROAD STANDARD PLANS						
The following Standard Plans shall be considered applicable to construction each on this project.							
ldentification	De∋	Identification	Osle	Identification	Date		
EW-101	10-17-17			1			
EW-401	10-20-15		2				
€W-402	04-18-17						
TC-252	04-21-20						

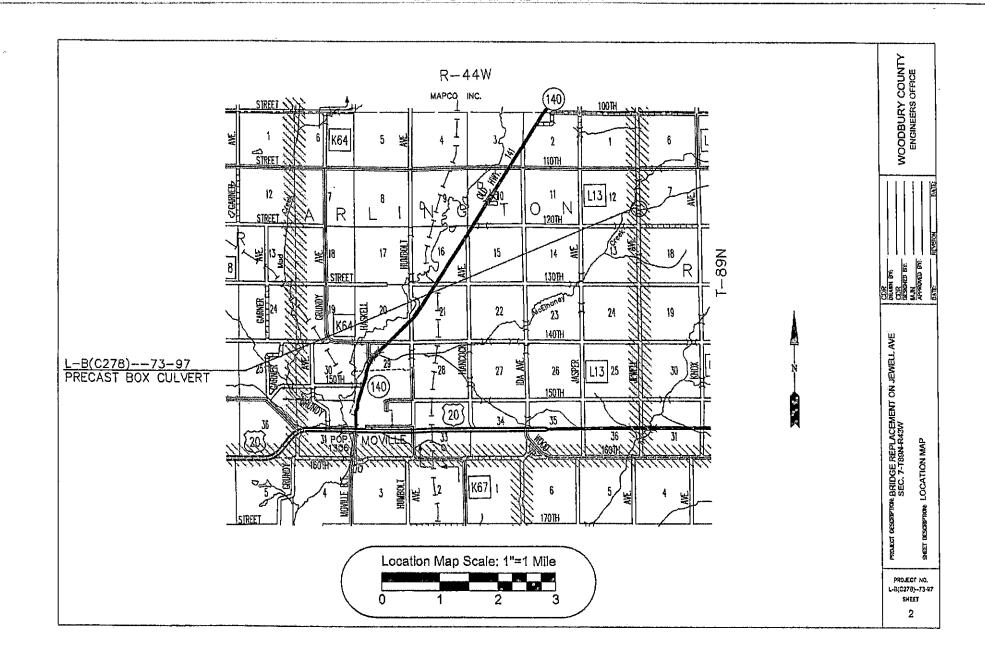
	RCB STANDARD PLANS							
	(May be ostalted at Woodkery County Engineer Office)							
Stondard	Deto issued	Date Revised	Stendard	Dete laqued	Date Revised			
PRCB G1-13	JANUARY, 2013	07~15		1				
PRCD G2-13	JANUARY, 2013	07-16						
PRCB 12-13	JANUARY, 2013	0113		T	1			
PES 1-13-73	JANUARY, 2013	07-16						
	JANUARY, 2013	07-16			1			
PES 3-13-13	JANUARY, 2013	07-18			1			



Woodbury County

Project Number: L-B(C278)-73-97

Sheet 1



	ESTIMATED PROJECT QUANTITIES							
ITEM	ITEM CODE	CODE DESCRIPTION		TOTALS				
1.	2101-0850001	CLEARING AND GRUBBING	AC.	0.25				
2.	2102-2525000	EMBANKMENT-IN-PLACE	C.Y.	1,200				
3.	2104-2710020	EXCAVATION, CLASS 10 CHANNEL	C.Y.	25				
4.	2312-8260310	GRANULAR SURFACING ON ROAD, CRUSHED CONCRETE	TON	38				
5.	2401-6745625	REMOVAL OF EXISTING BRIDGE	L.S.	1				
6.	2402-0425030	GRANULAR BACKFILL	C.Y.	72				
7.	2402-2720000	EXCAVATION, CLASS 20	C.Y.	842				
8.	2415-2111210	PRECAST CONCRETE BOX CULVERT, 12 FT. X 10 FT.	L.F.	42				
9.	2415-2201210	PRECAST CONCRETE BOX CULVERY STRAIGHT END SECTION, 12 FT. X 10 FT.	EACH	2				
10.	2418-0000010	TEMPORARY STREAM DIVERSION	EACH	1				
11.	2507-6800061	REVETMENT, CLASS E	TON	30				
12.	2518-6910000	SAFETY CLOSURE	EACH	2				
13.	2519-3280000	FENCE, FIELD	L.F.	150				
14.	2519-3300400	FIELD FENCE BRACE PANELS	EACH	4				
15.	2528-8445110	TRAFFIC CONTROL	L.S.	1				
16.	2533-4980005	MOBILIZATION	L.S.	1				
17.	26012634100	MULCHING	AC.	0.25				
18.	2601-2642100	STABILIZING CROP - SEEDING AND FERTILIZING	AC.	0.25				

### ESTIMATE REFERENCE INFORMATION

THE DATA BELOW IS FOR INFORMATIONAL PURPOSES ONLY AND SHALL NOT CONSTITUTE A BASIS FOR ANY EXTRA WORK ORDERS.

- This bid item includes removal of trees, field fence, rubbish and woody plants within the Project Limits. Contractor shall have written permission before burning grubbed materials on private property. No burning of grubbed materials inside project limits allowed.
- 2. No payment for overhaul will be allowed. Quantity includes an allowance of 40% for shrinkage. Type "A" compaction is required. Payment shall be plan quantity. Material from Item 7 may be used if inspected by Woodbury County and consent is given by the County Engineer. No Class 10 Roadway Excavation was included due to there being no roadway cut further than the Class 20 excavation required for placing the RCB. After all suitable material on site has been depleted the contractor shall furnish all remaining material required. The contractor shall furnish his own borrow for embankment—in—place. The contractor shall familiarize themself with provisions of lowe Law as it applies to removal and replacement of topsoil on borrow areas. All material shall be compacted with a method approved by the Engineer, Final 2° of roadway shall be compacted with a vibratory roller.

Summary of earthwork is as follows:

1,200 c.y. (fill +40%)

0 c.y. (cut) 1,200 c.y. (borrow)

Borrow shall be contractor furnished.

- 3. Quantity of excavation is 25 c.y. (cut) and 0 c.y. (fill + 40%). Excess material may be used as roadway borrow if deemed suitable by the engineer. Unused material or material deemed unsuitable shall be disposed of off the project site according to applicable Federal, State and Local regulations. Disposal of unused or unusable material shall be considered incidental to this bid item and contractor shall receive no further compensation for disposal.
- 4. Granular Surfacing shall be compacted.
- 5. Bid item shall include the removal and disposal of the existing Concrete Slab bridge. The structure is a 27' long and 24.2' wide I-beam bridge with timber pile, backing plank, and ple caps. All substructure items shall be removed to a minimum of 2'-0" below finished ground. Bridge I-beams shall be safvaged and stack-piled on site and shall remain the property of Woodbury County. Remaining bridge items that are removed shall become the property of the contractor and shall be disposed of off the project site according to applicable Federal, State, and Local regulations. Disposal shall be considered incidental to this bid item and contractor shall receive no further compensation for disposal.
- 6. Granular Blanket shall be placed under the Reinforced Box Culvert 18" deep. The material shall be compacted utilizing a smooth drum or vibrating plate to the satisfaction of the County Engineer. The lower 15" shall consist material meeting specifications for gradation 14 while the final 3" shall consist of material meeting specifications for gradations 1 or 32 as set forth by the lowa DOT Standard Specifications for Highway and Bridge Construction.
- 8., 9. See sheet 6 for placement details. This bid item shall include all equipment and labor to place Precast Concrete Box Culvert (including 15 degree bend as shown) and Type 1 End Section According to the IDOT Standard Specifications. Subgrade shall be compacted and inspected prior to placing Granular Backfill and Precast Concrete Box Culvert.
- Stream shall be diverted by pumping, no diversion of channel will be allowed. Contractor shalf size pumps to allow area to be dewatered.
- 11. See sheet 6 for placement details.
- This bid Item shall include providing, installing, maintaining and removing safety closures according to IDOT Standard Specifications.
- 13. This item shall be full compensation for installation of new 4 strand barb wire fence. New fence shall be installed alternating between steel and wood fence posts.
- 14. Brace panels are required at the beginning and ending of the fencing installation.
- This bid item shall be full compensation for construction signing as per IDOT Standard Road Plan TC-252
- 16. This bid Item shall include all transportation costs associated with the movement by the contractor and their equipment.
- 17. Multihling is intended to cover seeding on reconstructed slopes and ditches.
- 18. Permanent Seeding shall meet the requirements set forth in IDOT 2015 English Standard Specifications and applicable Supplemental Specifications. The Contractor shall verify with the Engineer all creas to be seeded prior to commencing any work in this Item.

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F DESCRIPTION, BRIDGE REPLACEMENT ON JEWELL AVE SEC. 7-T88N-R43W
DESCRIPTION, ESTIMATE OF QUANTITIES AND GENERAL INFORMATION

PROJECT NO. L-B(C278)--73-97 SHEET

#### GENERAL NOTES:

CONTRACTOR SHALL CONFINE WORK TO THE COUNTY R.O.W. AND TEMPORARY EASEMENT UNLESS PERMISSION FROM RESPECTIVE LANDOWNERS IS PROVIDED TO THE COUNTY IN

THE ENGINEER MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE ENGINEER FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT IOWA ONE-CALL AT 1-800-292-8989 FOR UTILITY RELOCATES.

THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES (PUBLIC AND PRIVATE) AT LEAST 20 DAYS IN ADVANCE OF THE ACTUAL STARTING DATE OF CONSTRUCTION, THE CONTRACTOR IS TO DETERMINE ACTUAL LOCATION OF UTILITIES IN THE FIELD. THE CONTRACTOR IS TO USE DUE CAUTION IN WORKING OVER AND AROUND ALL UTILITY LINES NE BREAKS IN THE UTILITY LINES NE TO THE CONTRACTOR ARE TO BE REPAIRED OR REPLACED WITHOUT COST TO THE OWNER OR ENGINEER.

OTHER EXISTING UNDERGROUND INSTALLATIONS AND STRUCTURES ARE INDICATED ON THE DRAWNES ACCORDING TO THE INFORMATION FURNISHED TO THE ENGINEER BY OTHERS. THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OF SUCH INFORMATION. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO LOCATE ALL EXISTING UNDERGROUND INSTALLATIONS AND STRUCTURES IN THE VICINITY OF THE WORK TO BE DONE BY PROSPECTING IN ADVANCE OF

ALL RUBBLE FROM THE REMOVAL OF EXISTING STRUCTURE SHALL BE DISPOSED OF BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE FEDERAL STATE AND LOCAL REQUIREMENTS. RUBBLE SHALL BE REMOVED FROM THE PROJECT SITE.

SOUNDING AND TEST BORING DATA SHOWN ON THE PLANS WERE ACCUMULATED FOR DESIGNING AND ESTIMATING PURPOSES, THEIR APPEARANCE ON THE PLANS DOES NOT CONSTITUTE A GUARANTEE THAT CONDITIONS OTHER THAN THOSE INDICATED WILL NOT BE

#### SCHEDULE OF OPERATION

THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER, PRIOR TO THE PRECONSTRUCTION CONFERENCE, A WRITTEN SCHEDULE FOR PERFORMANCE OF THE WORK ITEMS. THE SCHEDULE SHALL BE IN THE FORM OF A BAR CRAPH OR CHART SHOWING STARTING AND COMPLETION DATES FOR THE ITEMS. THE CONTRACTOR SHALL THEN MAKE EVERY EFFORT TO CONFORM TO THE ACCEPTED SCHEDULE.

232-B 10-1B-11

#### **EROSION CONTROL** (DISTURBED AREAS)

ENSURE THE TOP B INCHES OF THE DISTURBED AREAS ARE FREE OF ROCK AND DEBRIS AND ARE SUITABLE FOR THE ESTABLISHMENT OF VEGETATION, SUBJECT TO THE ENGINEER'S APPROVAL

#### **EROSION CONTROL** (RURAL SEEDING)

FOLLOWING THE COMPLETION OF WORK, PLACE SEED, FERTILIZER, AND MULCH ON THE PORTION OF THE AREA LYING WITHIN THE COUNTY RIGHT OF WAY AS FOLLOWS:

PERMANENT SEEDING FOR RURAL AREA AS PER THE 100T CURRENT SPECIFICATIONS.

17 LBS. OF 13-13-13 (OR EQUIVALENT) COMMERCIAL FERTILIZER PER 1000 SQ. FT.

70 LBS. OF DRY CEREAL STRAW PER 1000 SQ. FT. CONSOLIDATE ALL MULCH INTO THE SOIL USING A MULCH STABILIZER.

PREPARING THE SEEDOED AND FURNISHING AND APPLYING SEED, FERTILIZER, AND MULCH IS INCIDENTAL TO MOBILIZATION, NO EXTRA COMPENSATION WILL BE ALLOWED.

09-27-94

#### DEMOLITION (BRIDGE REMOVAL)

A SCRAPE SAMPLE WAS TAKEN FROM ONE AREA OF THIS BRIDGE TO GET AN INDICATION OF THE EXISTENCE OF THE LEVEL OF TOTAL CHROMIUM AND TOTAL LEAD. ANALYSIS OF OF THE EASIENCE OF THE LEVEL OF TOTAL CHROMIUM AND TOTAL LEAD. ANALYSIS OF TOTAL CHROMIUM ON THIS SAMPLE WAS 43,000 PARTS PER MILLION (PPM), ANALYSIS OF TOTAL CHROMIUM ON THIS SAMPLE WAS 25 PPM. THESE ANALYSES SHOW THE EXISTENCE OF THESE TWO TOXIC CONSTITUENTS, LEVELS; INDICATED BY THESE TESTS COULD CREATE CONDITIONS ABOVE REQUILATORY 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. AN ASBESTOS INSPECTION WAS CONDUCTED AND THE RESULTS WERE NEGATIVE.

> PROJECT NO. L-B(G278)--73-97

