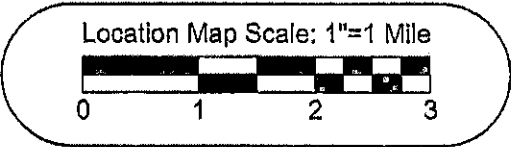
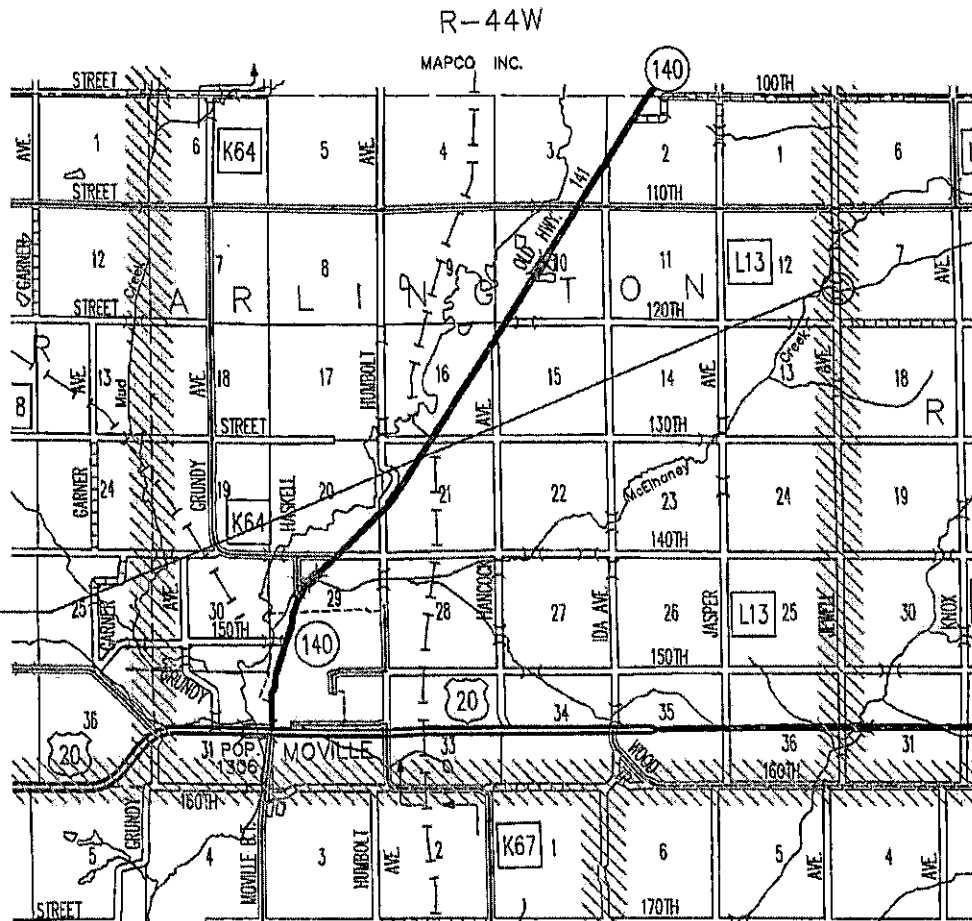


L-B(C278)--73-97
 PRECAST BOX CULVERT



WOODBURY COUNTY ENGINEERS OFFICE	
DRAWN BY: _____ CORR: _____ DESIGNED BY: _____ S.A.N. APPROVED BY: _____ DATE: _____	REVISION: _____ DATE: _____
PROJECT DESCRIPTION: BRIDGE REPLACEMENT ON JEWELL AVE SEC. 7-189N-R43W	
SHEET DESCRIPTION: LOCATION MAP	
PROJECT NO. L-B(C278)-73-97 SHEET 2	

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 WRITING.

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. BREAKS IN THE UTILITY LINES DUE 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 DRAWINGS 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 EXCAVATION.

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 ENCOUNTERED.

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 GRAPH OR CHART SHOWING STARTING AND COMPLETION DATES FOR THE ITEMS. THE CONTRACTOR SHALL THEN MAKE EVERY EFFORT TO CONFORM TO THE ACCEPTED SCHEDULE.

**EROSION CONTROL
(DISTURBED AREAS)**

ENSURE THE TOP 6 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.

232-6
10-18-11

**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:

SEEDING:
PERMANENT SEEDING FOR RURAL AREA AS PER THE IDOT CURRENT SPECIFICATIONS.
FERTILIZER:
17 LBS. OF 13-13-13 (OR EQUIVALENT) COMMERCIAL FERTILIZER PER 1000 SQ. FT.

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

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

271-9
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 TOTAL LEAD 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 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. AN ASBESTOS INSPECTION WAS CONDUCTED AND THE RESULTS WERE NEGATIVE.

WOODBURY COUNTY
ENGINEERS OFFICE

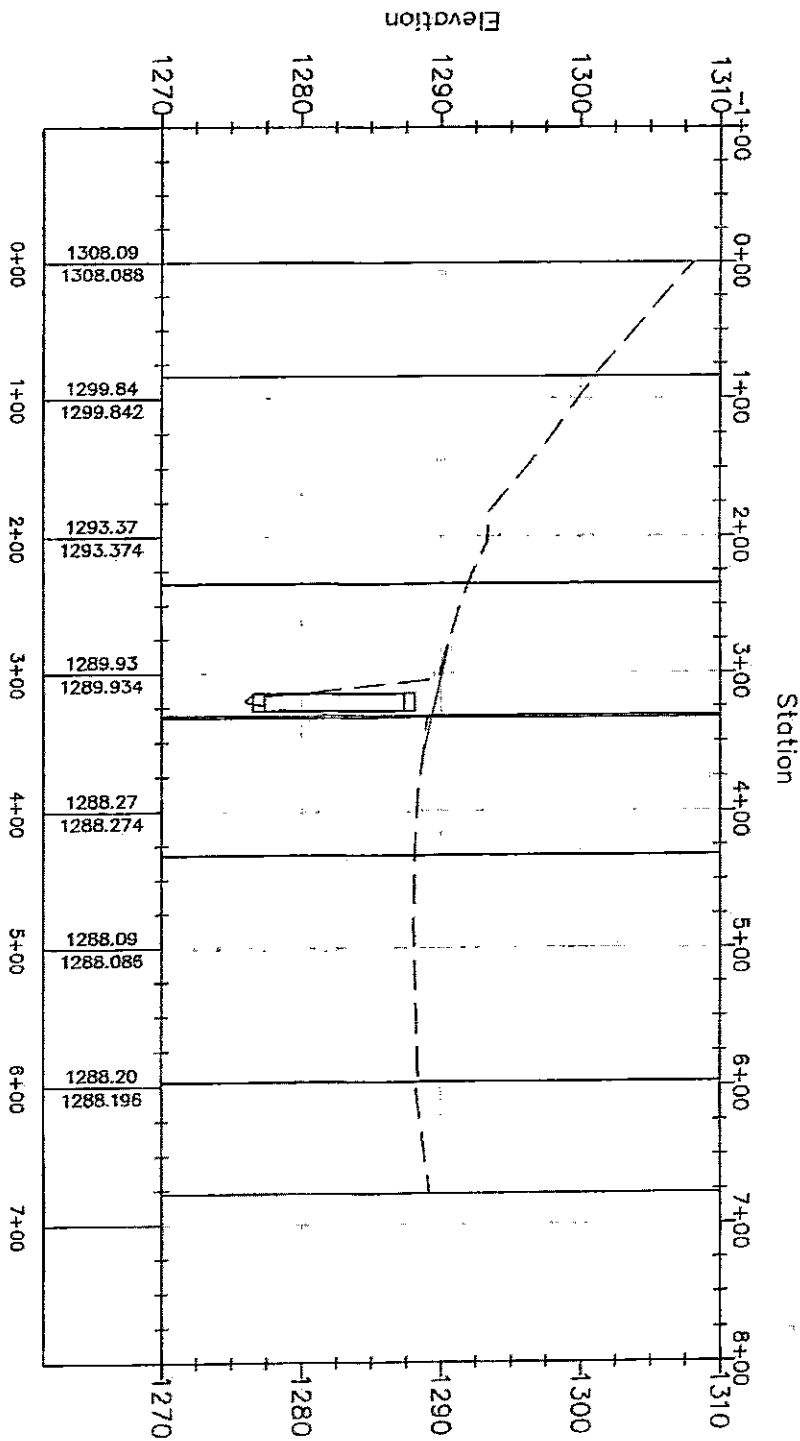
CUR.	DATE
DRAWN BY	REVISION
COR.	DATE
DESIGNED BY	DATE
MAJ.	DATE
APPROVED BY	DATE

PROJECT DESCRIPTION: BRIDGE REPLACEMENT ON JEWELL AVE
SEC. 7-188N-R43W

SHEET DESCRIPTION: GENERAL NOTES

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

SHEET
4

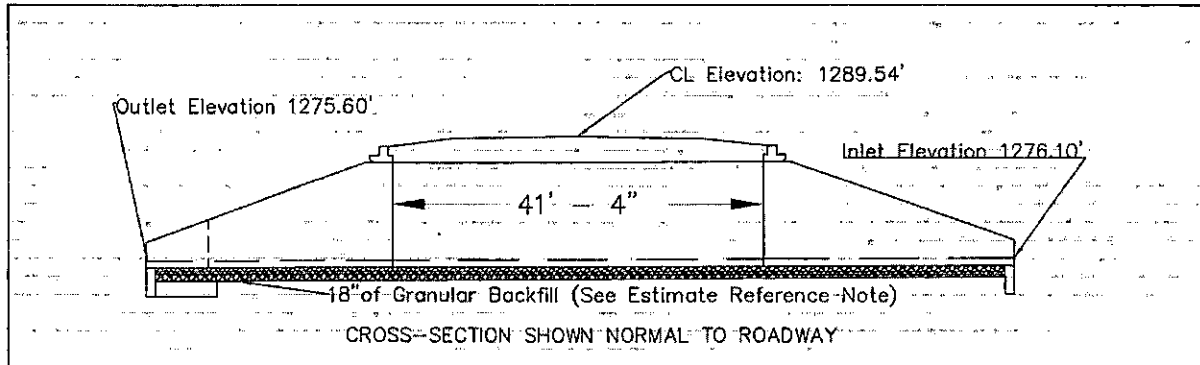


PROJECT NO.
L-101270-73-07
SHEET
5

PROJECT DESCRIPTION: BRIDGE REPLACEMENT ON JEWELL AVE
SEC. 7-T88N-R43W
SHEET DESCRIPTION: PROFILE VIEW

CDR _____
DRAWN BY: _____
CDR _____
DESIGNED BY: _____
M.J.N _____
APPROVED BY: _____
DATE: _____ REVISION: _____ DATE: _____

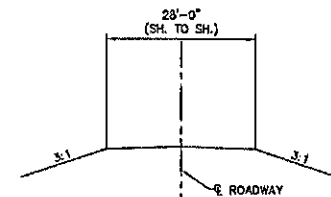
WOODBURY COUNTY
ENGINEERS OFFICE



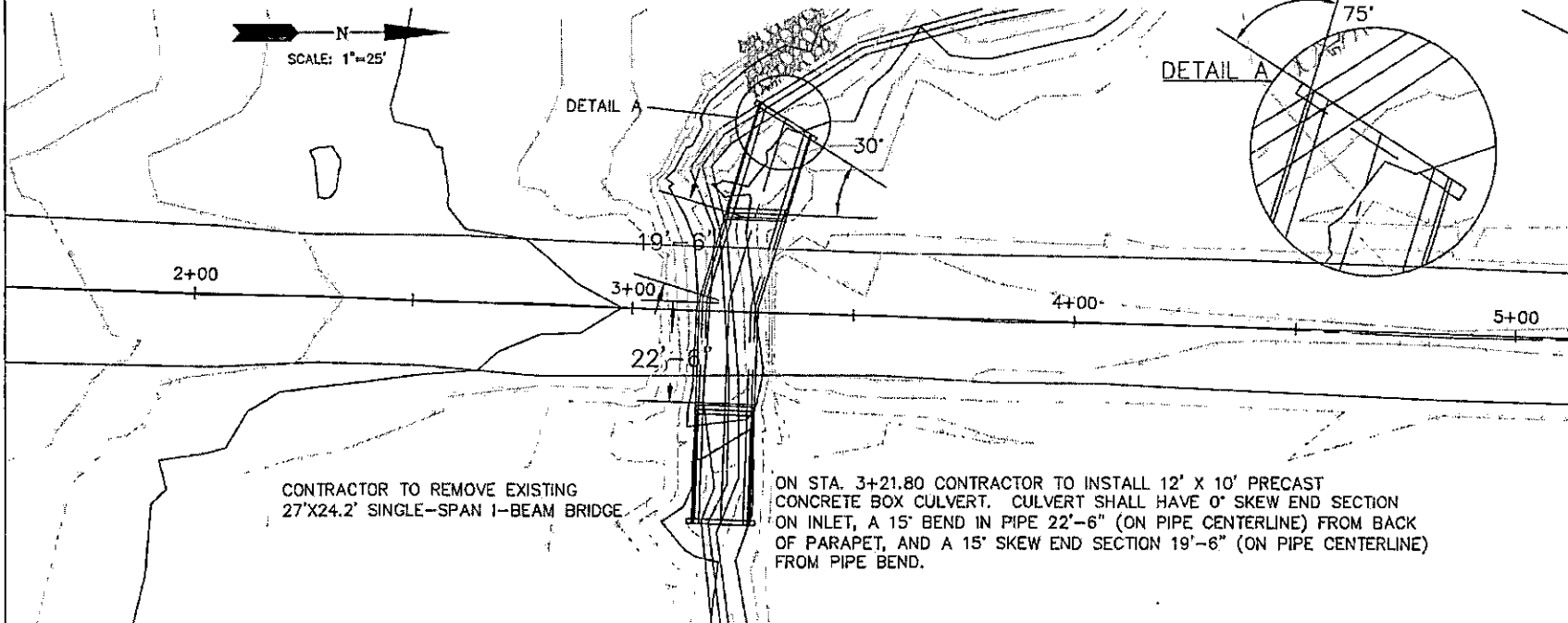
LOCATION
 WOODBURY COUNTY
 T89N, R43W, SECTION 7
 RUTLAND TOWNSHIP OVER STREAM

HYDRAULIC DATA
 DRAINAGE AREA = 1.66 SQ. MI.
 STREAM SLOPE = 53.0 FT./MI.

Q10 = 770 CFS Q25 = 1190 FS
 Q50 = 1530 CFS Q100 = 1900 CFS
 STAGE = 1288.01



TYPICAL APPROACH SECTION



CONTRACTOR TO REMOVE EXISTING
 27'X24.2' SINGLE-SPAN I-BEAM BRIDGE

ON STA. 3+21.80 CONTRACTOR TO INSTALL 12' X 10' PRECAST
 CONCRETE BOX CULVERT. CULVERT SHALL HAVE 0° SKEW END SECTION
 ON INLET, A 15° BEND IN PIPE 22'-6" (ON PIPE CENTERLINE) FROM BACK
 OF PARAPET, AND A 15° SKEW END SECTION 19'-6" (ON PIPE CENTERLINE)
 FROM PIPE BEND.

WOODBURY COUNTY
 ENGINEERS OFFICE

DATE	REVISION

PROJECT DESCRIPTION: BRIDGE REPLACEMENT ON JEWELL AVE
 SEC. 7-T89N-R43W
 SHEET DESCRIPTION: SITUATION PLAN

PROJECT NO.
 L-8(C278)-73-97
 SHEET
 6