

80

SECTION 404 PERMIT AND CONDITIONS

CONSTRUCT THIS PROJECT ACCORDING TO THE REQUIREMENTS OF THE U.S. ARMY CORPS OF ENGINEERS NATIONWIDE PERMIT NO 14 CEAVT-00-P-2220-079. A COPY OF THIS PERMIT IS AVAILABLE FROM THE IOWA DOT WEBSITE (http://empermits.iowadot.gov/) THE US ARMY CORPS OF ENGINEERS RESERVES THE RIGHT TO VISIT THE SITE WITHOUT PRIOR NOTICE.

IOWA DEPARTMENT OF TRANSPORTATION Highway Division PLANS OF PROPOSED IMPROVEMENT ON THE SECONDARY ROAD SYSTEM WOODBURY COUNTY

RCB CULVERT NEW PROJECT NO. L-B(M66)--73-97

The Iowa 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 240th St., Over Stream, from Taylor Ave East 0.8 Miles to Union Ave. on the North Line Section 14, T87N R42W

Project Number: L-B(M66)--73-97

INDEX OF SHEETS

Table with 2 columns: No., Description. Rows include TITLE SHEET, LOCATION PLAN, ESTIMATE OF QUANTITIES & ESTIMATE REFERENCE INFORMATION, GENERAL NOTES, PLAN VIEW, PROFILE VIEW, SITUATION PLAN.

ROAD STANDARD PLANS

The following Standard Plans shall be considered applicable to construction work on this project.

Table with 6 columns: Identification, Date, Identification, Date, Identification, Date. Rows include EW-101, EW-402, TC-252.

RCB STANDARD PLANS

(May be obtained at Woodbury County Engineer Office)

Table with 6 columns: Standard, Date Issued, Date Revised, Standard, Date Issued, Date Revised. Rows include TWRCB G1-12, TWRCB G2-12, TWRCB 10-8-12, TWH 15-1-12, TWH 15-2-12, TWH 15-3-12.

NEW RCB CULVERT

PROJECT NO: L-B(M66)-73-97

TRAFFIC CONTROL PLAN

THIS ROAD WILL BE CLOSED TO THROUGH TRAFFIC DURING CONSTRUCTION. TRAFFIC ROUTED ADJACENT TO PROPERTIES WILL BE MAINTAINED AS PROVIDED FOR IN ARTICLE 1102.06 OF THE CURRENT STANDARD SPECIFICATIONS. TRAFFIC CONTROL DEVICES, PROCEDURES, LAYOUTS, SIGNING AND PAVEMENT MARKINGS INSTALLED WITHIN THE LIMITS OF THIS PROJECT SHALL CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AS ADOPTED BY THE DEPARTMENT PER 701 OF THE IOWA ADMINISTRATION CODE (IAC) CHAPTER 130.

MAINTENANCE OF SIGNS AND BARRICADES AS STATED IN ARTICLE 1107.09 SHALL APPLY ON THIS PROJECT.

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

Approval signature lines for Board of Supervisors.

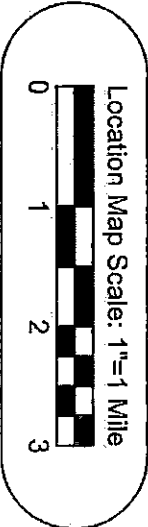
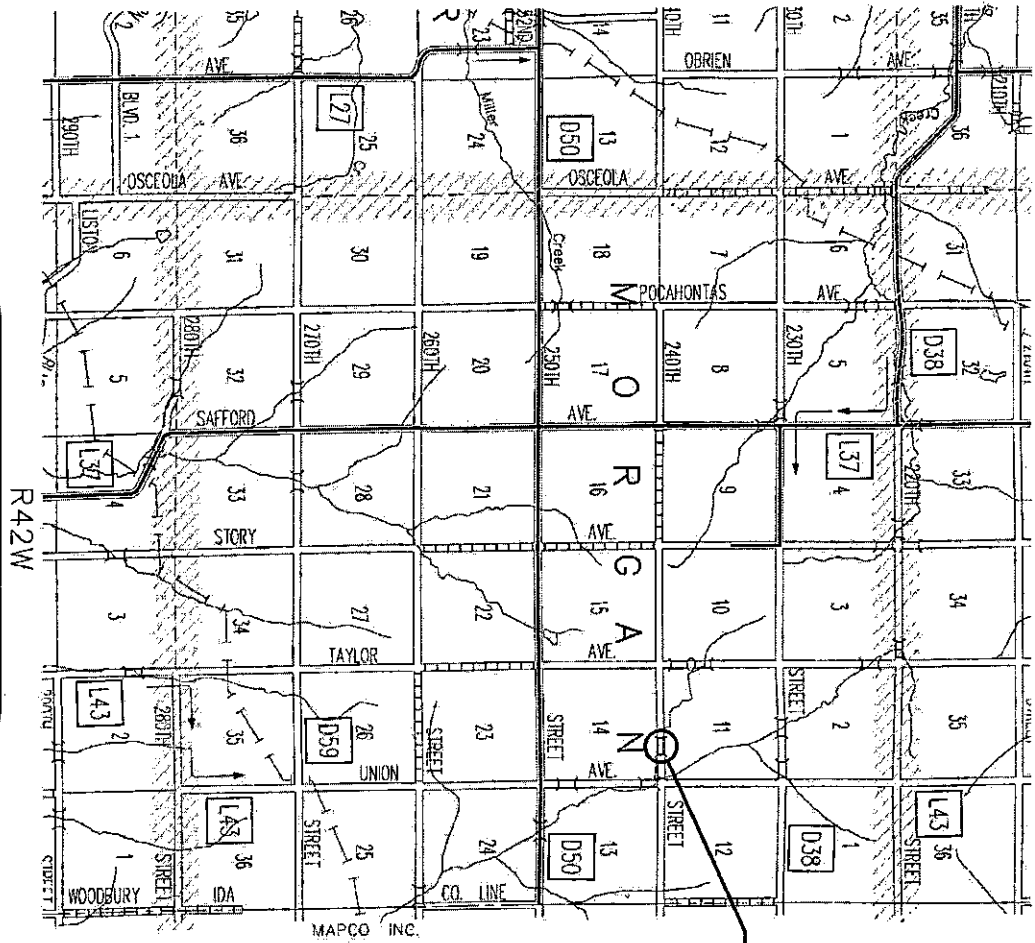
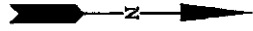


I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa. Mark J. Nahra 4/29/2020 Date. Iowa Registration Number 11452 Expiration Date 12/31/2020. Pages or sheets covered by this set: Pages 1 - 7.



WOODBURY COUNTY

Letting Date JUNE 02, 2020



**L-B(M66)--73-97  
BRIDGE REPLACEMENT**

T-87N

PROJECT DESCRIPTION: RCB CULVERT BRIDGE REPLACEMENT  
240TH ST. THE NORTH LINE SEC. 14 T87N-R42W

SHEET DESCRIPTION: LOCATION MAP

BSB  
DRAWN BY: \_\_\_\_\_  
BK  
DESIGNED BY: \_\_\_\_\_  
MJN  
APPROVED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_ REVISION: \_\_\_\_\_ DATE: \_\_\_\_\_

**WOODBURY COUNTY  
ENGINEERS OFFICE**

PROJECT NO.  
L-R(M66)-73-97  
SHEET  
**2**

ESTIMATED PROJECT QUANTITIES				
ITEM	ITEM CODE	DESCRIPTION	UNITS	TOTALS
1.	2101-0850001	CLEAR AND GRUB	AC.	0.17
2.	2102-2710070	CLASS 10 ROADWAY AND BORROW	C.Y.	875
3.	2104-2712020	CLASS 10 CHANNEL	C.Y.	587
4.	2312-8260310	GRANULAR SURFACE ON ROAD CRUSHED CONCRETE	TON	222
5.	2401-8745825	REMOVAL OF EXISTING BRIDGE	L.S.	1
6.	2402-0425030	GRANULAR BACKFILL	C.Y.	112
7.	2402-2720000	EXCAVATION, CLASS 20	C.Y.	1,748
8.	2403-0100020	STRUCTURAL CONCRETE (RCB CULVERT)	C.Y.	240.2
9.	2404-7775000	REINFORCING STEEL	LB.	34,957
10.	2507-6800081	REVTMENT, CLASS E	TON	180
11.	2518-0000010	TEMPORARY STREAM DIVERSION	EACH	1
12.	2518-6910000	SAFETY CLOSURE	EACH	2
13.	2519-3280000	FENCE, FIELD	L.F.	300
14.	2519-3300400	FIELD FENCE BRACE PANELS	EACH	4
15.	2528-8445110	TRAFFIC CONTROL	L.S.	1
16.	2533-4880005	MOBILIZATION	L.S.	1
17.	2601-2634100	MULCHING	ACRES	0.50
18.	2601-2642100	STABILIZING CROP - SEEDING AND FERTILIZING	ACRES	0.50

CONCRETE AND REINFORCING STEEL SUBTOTALS FOR A TWIN 10'x8'x67' RCB CULVERT					
LOCATION	CONCRETE QUANTITIES, C.Y.				REINFORCING STEEL, LBS.
	FLOOR	WALLS	SLAB	TOTAL	
HEADWALLS	62.6	24.2	5.0	91.8	11,922
35' BARREL	30.3	22.1	24.8	77.2	11,894
32' BARREL	27.7	20.2	22.7	70.6	10,957
CONTROL WALL				0.6	94
TOTALS	120.6	66.5	52.5	240.2	34,957

#### ESTIMATE REFERENCE INFORMATION

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

- THIS ITEM INCLUDES REMOVAL OF TREES AND WOODY PLANTS WITHIN THE PROJECT LIMITS. CONTRACTOR SHALL HAVE WRITTEN PERMISSION BEFORE BURNING CRUBBED MATERIALS ON PRIVATE PROPERTY. NO BURNING OF CRUBBED MATERIALS ON INSIDE PROJECT LIMITS ALLOWED.
- CONTRACTOR SHALL OBTAIN SPECIFIED QUANTITY OF CLASS 10 MATERIAL FROM CONTRACTOR SUPPLIED BORROW. MATERIAL SHALL BE FREE FROM FOREIGN MATERIAL AND HAVE ADEQUATE MOISTURE TO ALLOW COMPACTION AT THE CONTRACTOR'S EXPENSE IF NECESSARY TO COMPLETE COMPACTION. ROADWAY PORTION OF FILL CALCULATIONS INCLUDE A 40% SHRINKAGE FACTOR. 875 C.Y. (FILL+40%)-508 C.Y. CUT = 367 C.Y. CONTRACTORS BORROW.

#### ESTIMATE REFERENCE INFORMATION

- GRANULAR SURFACING SHALL BE COMPACTED WITH SMOOTH DRUM ROLLER IN TWO (2) - 3" LIFTS.
- BID ITEM SHALL INCLUDE THE REMOVAL AND DISPOSAL OF THE EXISTING SINGLE SPAN STEEL STRINGER. THE STRUCTURE IS 25' LONG, 17.6' WIDE. BRIDGE CONSISTS OF A TIMBER PLANK DECK WITH STEEL STRINGERS. SUBSTRUCTURE CONSISTS OF TIMBER PILES. ALL SUBSTRUCTURE ITEMS SHALL BE REMOVED TO A MINIMUM OF 2'-0" BELOW FINISHED GROUND. BRIDGE DECK PLANK AND STEEL I-BEAMS SHALL BE SALVAGED AND STOCK 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.
- GRANULAR BACKFILL SHALL BE PLACED UNDER THE REINFORCED BOX CULVERT 12" DEEP. THE MATERIAL SHALL BE COMPACTED TO THE SATISFACTION OF THE COUNTY ENGINEER. MATERIAL SHALL MEET THE SPECIFICATIONS OF GRADATION 14 AS SET FORTH BY THE IOWA DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION SERIES 2015.
- THIS BID ITEM INCLUDES ALL MATERIAL EXCAVATED FOR THE PLACEMENT OF THE PROPOSED ROADWAY BORROW. EXCAVATED MATERIAL MAY BE USED AS ROADWAY BORROW IF DEEMED SUITABLE BY THE ENGINEER.
- AGGREGATE SHALL BE CLASS 2 DURABILITY. ITEMIZED CONCRETE PLACEMENT QUANTITIES ARE INDICATED BELOW THE ESTIMATED PROJECT QUANTITIES. CONCRETE SHALL BE CLASS "C-4".
- TEMPORARY STREAM DIVERSION SHALL BE BY PUMPING, NO DIVERSION OF THE CHANNEL WILL BE ALLOWED. CONTRACTOR SHALL SIZE PUMPS TO ALLOW UPSTREAM AREA TO BE DEWATERED.
- THIS BID ITEM SHALL INCLUDE PROVIDING, INSTALLING, MAINTAINING AND REMOVING SAFETY CLOSURES ACCORDING TO IDOT STANDARD SPECIFICATIONS.
- THIS ITEM SHALL BE FULL COMPENSATION FOR PLACEMENT OF NEW 4 STRAND BARB WIRE FENCE. NEW FENCE SHALL BE INSTALLED ALTERNATING BETWEEN STEEL AND WOOD FENCE POSTS, FENCE TO BE INSTALLED BETWEEN STA. 9+00 AND STA. 10+00.
- THIS ITEM SHALL BE FULL COMPENSATION FOR CONSTRUCTION SIGNING ADJACENT TO ROADWAY.
- THIS ITEM SHALL INCLUDE ALL TRANSPORTATION COSTS ASSOCIATED WITH THE MOVEMENT BY THE CONTRACTOR AND THEIR EQUIPMENT.
- MULCHING IS INTENDED TO COVER SEEDING ON RECONSTRUCTED SLOPES AND DITCHES.
- 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 AREAS TO BE SEED PRIOR TO COMMENCING ANY WORK ON THIS ITEM, IF SEEDING IS PROPOSED BY HYDRO SEEDING IN PLACE OF MECHANICALLY APPLIED SEED THE WORK (HYDROSEED) SHALL BE DONE AT CONTRACT PRICE AS BID.

WOODBURY COUNTY  
ENGINEERS OFFICE

DATE: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_  
 MAIN APPROVED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

PROJECT DESCRIPTION: BRIDGE REPLACEMENT  
 N LINE SEC. 14-87-42 MORGAN TOWNSHIP  
 ESTIMATE OF QUANTITIES AND  
 GENERAL INFORMATION

PROJECT NO.  
 L-8(M66)-73-07  
 SHEET

**GENERAL NOTES:**

CONTRACTOR IS TO USE CARE IN WORKING AROUND AND OVER ALL TILE LINES. BREAKS IN THE TILE LINES DUE TO THE CONTRACTOR'S CARELESSNESS ARE TO BE REPLACED AT HIS EXPENSE WITHOUT COST TO WOODBURY COUNTY. ANY TILE LINES BROKEN OR DISTURBED BY CUT LINES WILL BE REPLACED AS DIRECTED BY THE ENGINEER IN CHARGE OF CONSTRUCTION AT WOODBURY COUNTY'S EXPENSE.

A UTILITY ONE CALL (1-800-292-6989) WILL BE MADE BY THE CONTRACTOR WITHIN 30 DAYS OF RECEIVING A SIGNED CONTRACT AND NO LESS THAN 10 WORKING DAYS BEFORE BEGINNING THE PROJECT. THE CONTRACTOR WILL NOTIFY THE WOODBURY COUNTY ENGINEER'S OFFICE WITH THE ONE CALL UTILITY MEETING TIME.

CONTRACTOR IS RESPONSIBLE FOR CLEANING UP AREAS OF THE PROJECT AS WORK PROGRESSES. ALL RUBBISH, EXCESS MATERIALS, EQUIPMENT, DEBRIS, AND GRUBBED MATERIALS SHALL BE CLEANED UP AND REMOVED FROM THE WORK AREAS PRIOR TO ACCEPTANCE OF THE PROJECT.

**DESIGN STRESSES**

DESIGN STRESSES FOR THE FOLLOWING MATERIALS ARE IN ACCORDANCE WITH THE A.A.S.H.T.O. STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SERIES OF 2015. REINFORCING STEEL IN ACCORDANCE WITH SECTION 8, GRADE 60. CONCRETE IN ACCORDANCE WITH SECTION 8,  $f_c = 3,500$  psi.

**SPECIFICATIONS**

DESIGN: A.A.S.H.T.O. STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SERIES OF 2015, AND ALL CURRENT REVISIONS.

CONSTRUCTION: IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SERIES OF 2015, PLUS CURRENT SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.

**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.

**CULVERT GENERAL NOTES**

DESIGNED FOR A FILL HEIGHT OF 8'.

THE REINFORCEMENT SUPPLIED FOR THIS STRUCTURE SHALL BE GRADE 60 REINFORCING STEEL IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

METAL BAR CHAIRS SPACED AT NOT OVER 3'-0" C-C IN EITHER DIRECTION ARE TO BE USED TO SUPPORT ALL SLAB AND FLOOR STEEL AS OUTLINED IN THE STANDARD SPECIFICATIONS (ARTICLE 2404.07).

THE CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR EDGE OR END OF REINFORCING BAR SHALL BE 2" UNLESS OTHERWISE NOTED OR SHOWN.

ALL REINFORCING STEEL SHALL BE SECURELY WIRED IN PLACE BEFORE THE CONCRETE IS POURED (ARTICLE 2404.06).

FLOOR OF BARREL SHALL BE FINISHED SMOOTH. SIDE OF FOOTING SHALL BE FORMED TO INSURE CORRECT LINE AND GRADE.

ALL EXPOSED CORNERS 90 DEGREES OR SHARPER SHALL BE FILLETED WITH A 3/4" DRESSED AND BEVELED STRIP.

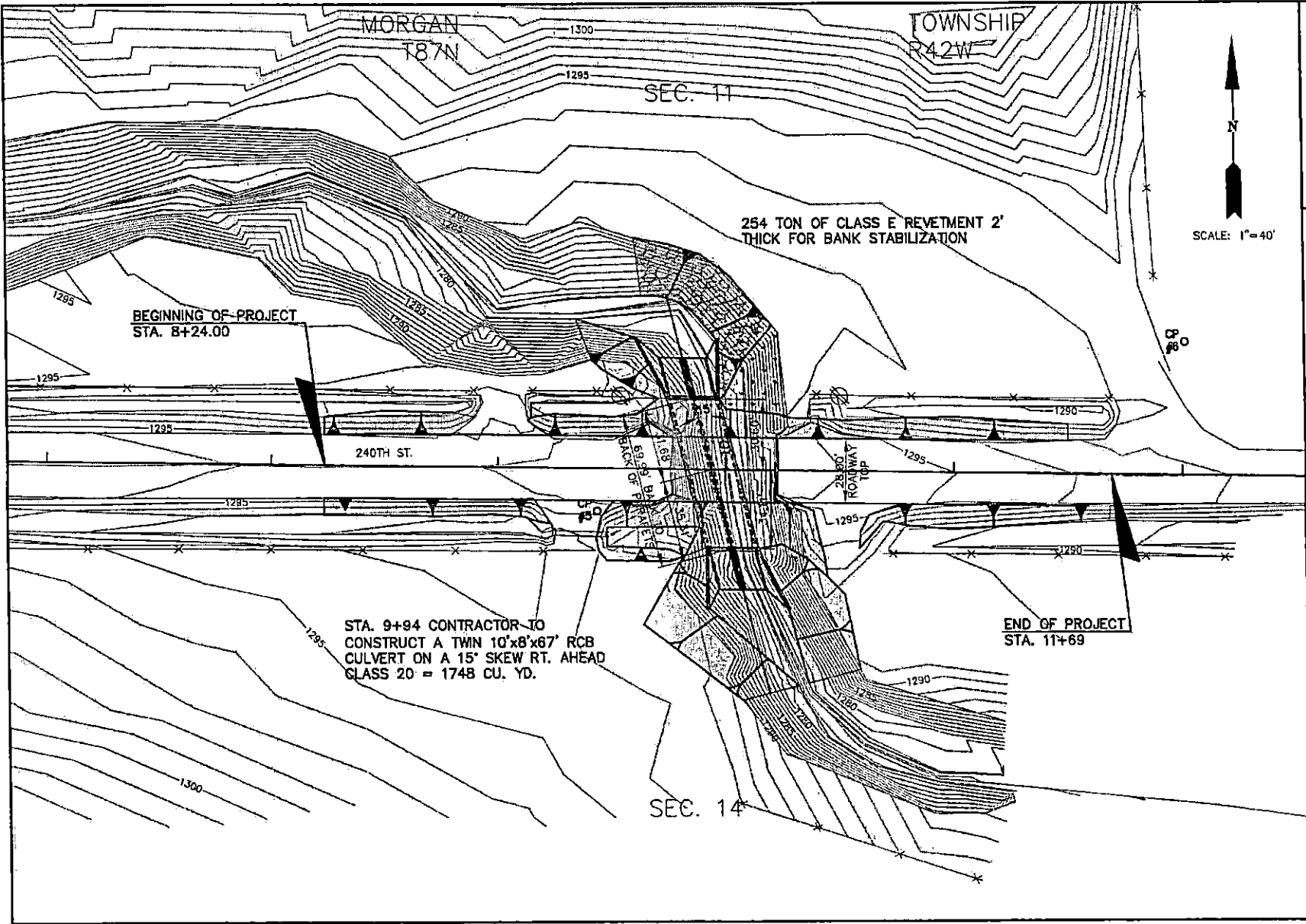
THE PERMISSIBLE CONSTRUCTION JOINT AT THE TOP OF THE WALLS MAY BE LOWERED.

232-8 10-18-11
<b>EROSION CONTROL (DISTURBED AREAS)</b>
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.

271-9 09-27-94
<b>EROSION CONTROL (RURAL SEEDING)</b>
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
<b>DEMOLITION (BRIDGE REMOVAL)</b>
NO SCRAPE SAMPLE WAS TAKEN FROM THIS BRIDGE TO GET AN INDICATION OF THE EXISTENCE OF THE LEVEL OF TOTAL CHROMIUM AND TOTAL LEAD DUE TO A LACK OF PAINTED SUBSTRATE. 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.

<b>WOODBURY COUNTY ENGINEERS OFFICE</b>																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">DATE</td> <td style="width: 10%; text-align: center;">REVISION</td> <td style="width: 10%; text-align: center;">DATE</td> <td style="width: 10%; text-align: center;">REVISION</td> <td style="width: 10%; text-align: center;">DATE</td> <td style="width: 10%; text-align: center;">REVISION</td> <td style="width: 10%; text-align: center;">DATE</td> <td style="width: 10%; text-align: center;">REVISION</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION								
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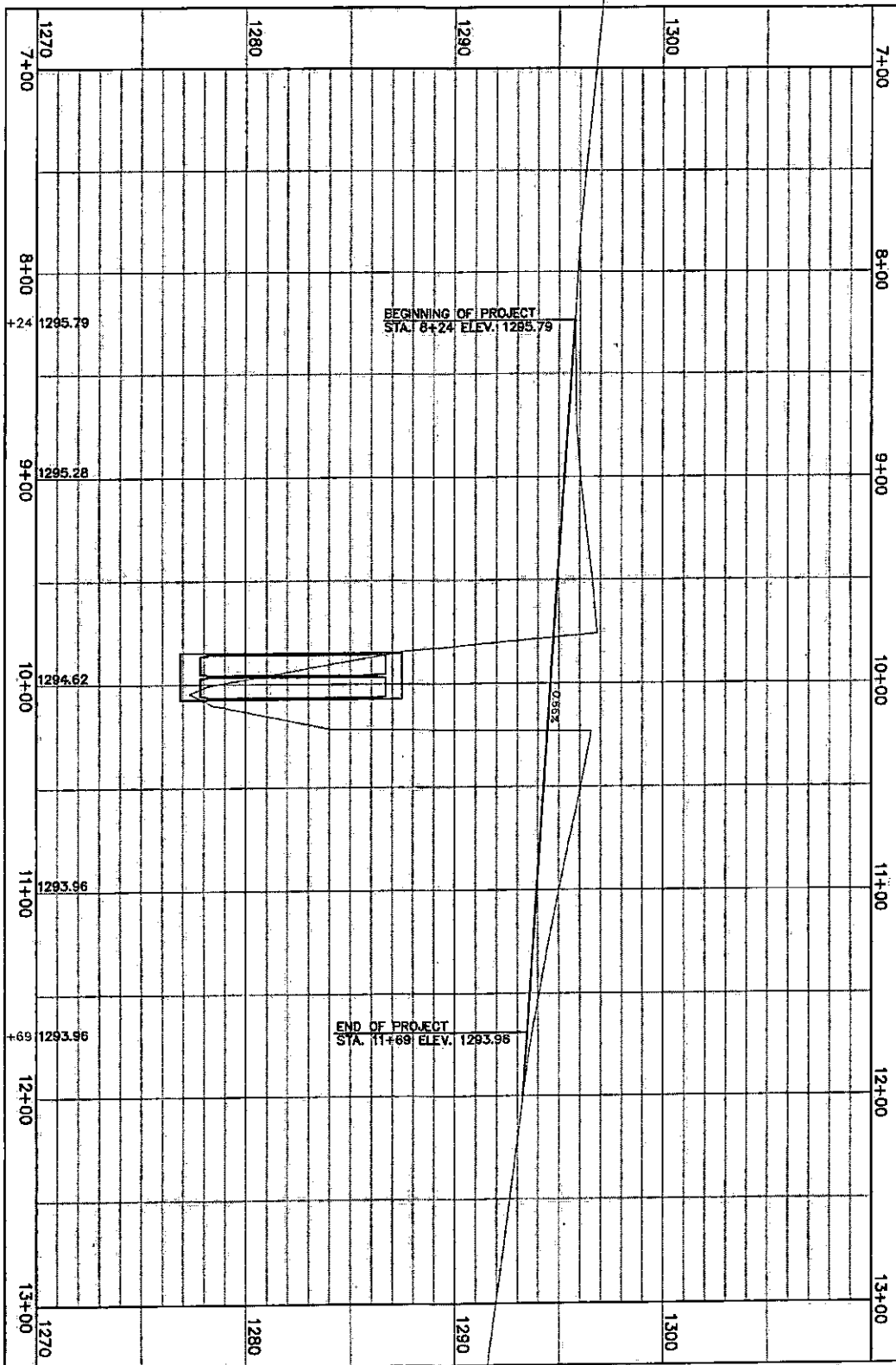
WOODBURY COUNTY  
ENGINEERS OFFICE

DATE:	
REVISION:	
APPROVED BY:	
DESIGNED BY:	
DRAWN BY:	

PROJECT DESCRIPTION: RCB CULVERT BRIDGE REPLACEMENT  
240TH ST. THE NORTH LINE SEC. 14 T87N-R42W

SHEET DESCRIPTION: PLAN VIEW

PROJECT NO.  
L-B(M68)-73-07  
SHEET  
5

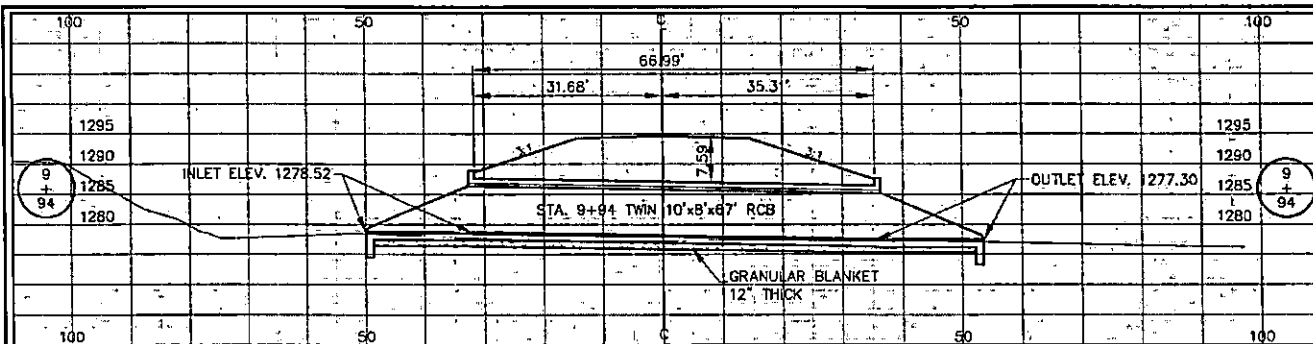


PROJECT NO. 1211469-73-97  
SHEET 6

PROJECT DESCRIPTION: RCB CULVERT BRIDGE REPLACEMENT  
240TH ST. THE NORTH LINE SEC. 14 T87N-R42W  
SHEET DESCRIPTION: PROFILE VIEW

BSB  
DRAWN BY: \_\_\_\_\_  
BK  
DESIGNED BY: \_\_\_\_\_  
MJK  
APPROVED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_ REVISION: \_\_\_\_\_ DATE: \_\_\_\_\_

WOODBURY COUNTY  
ENGINEERS OFFICE

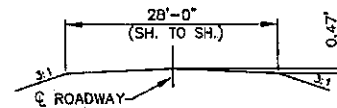


LOCATION  
 WOODBURY COUNTY  
 T87N, R42W, SECTION 11, 14  
 MORGAN TOWNSHIP OVER UNNAMED STREAM  
 HYDRAULIC DATA  
 DRAINAGE AREA = 1.68 SQ. MI.  
 STREAM SLOPE = 43.0 FT./MI.

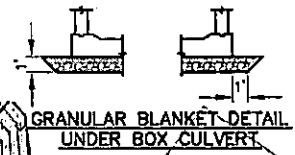
Q10 = 775 CFS    Q25 = 1190 FS  
 Q50 = 1540 CFS    Q100 = 1910 CFS  
 STAGE = 1285.92

**LONGITUDINAL SECTION OF TWIN 10'x8' RCB  
 ON A 15° SKEW RT. AHEAD**

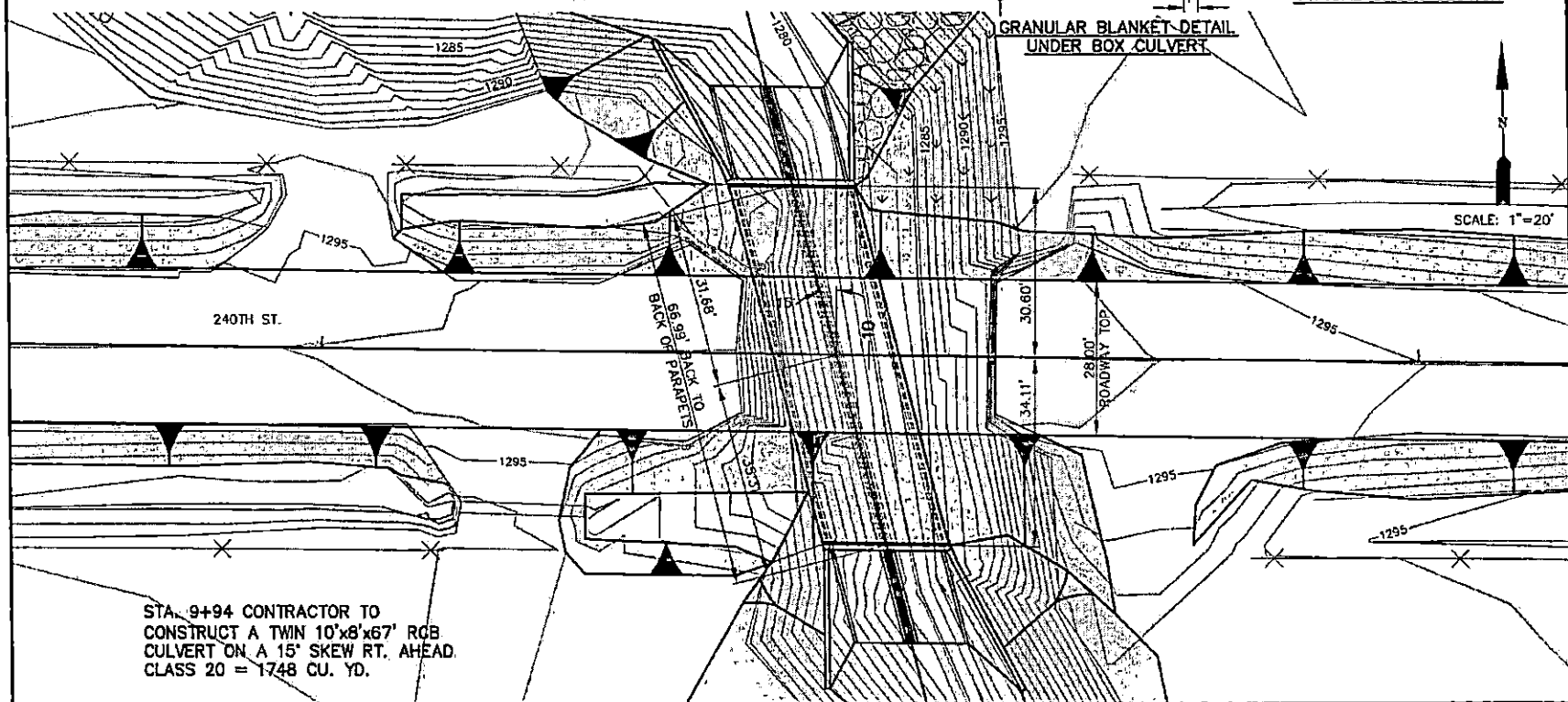
ALL DIMENSIONS ARE ALONG THE SKEW  
 SCALE: 1"=20'



**TYPICAL CROSS SECTION**



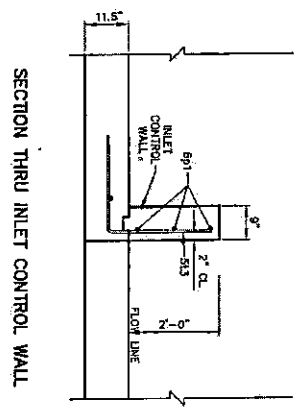
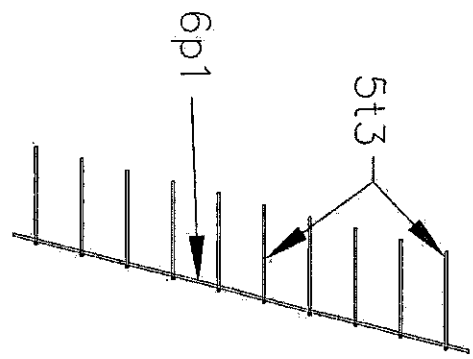
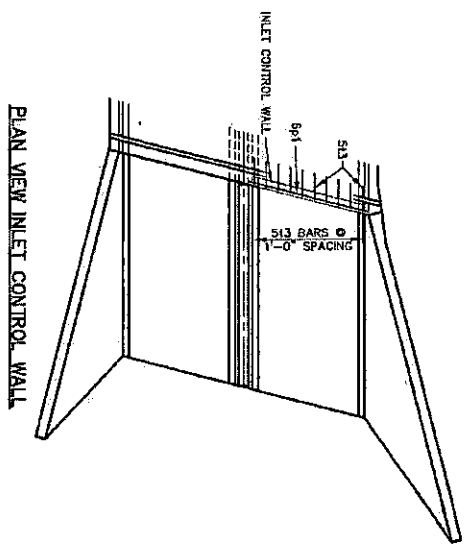
**GRANULAR BLANKET-DETAIL  
 UNDER BOX CULVERT**



STA. 9+94 CONTRACTOR TO  
 CONSTRUCT A TWIN 10'x8'x67' RCB  
 CULVERT ON A 15° SKEW RT. AHEAD.  
 CLASS 20 = 1748 CU. YD.

**WOODBURY COUNTY  
 ENGINEERS OFFICE**

BSH DRAWN BY: _____ BK DESIGNED BY: _____ MAIN APPROVED BY: _____ DATE: _____	DATE: _____ REVISION: _____
PROJECT DESCRIPTION: RCB CULVERT BRIDGE REPLACEMENT 240TH ST., THE NORTH LINE SEC. 14 T87N-R42W	
SHEET DESCRIPTION: SITUATION PLAN	
PROJECT NO. L-24(M86)-73-97 SHEET <b>7</b>	



PROJECT NO.  
L-201659-73-27  
SHEET  
8

PROJECT DESCRIPTION: RCB CULVERT BRIDGE REPLACEMENT  
240TH ST. THE NORTH LINE SEC. 14 T87N-R42W  
SHEET DESCRIPTION: INLET CONTROL WALL

BSB  
DRAWN BY: \_\_\_\_\_  
CHK  
DESIGNED BY: \_\_\_\_\_  
M/JN  
APPROVED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_ REVISION: \_\_\_\_\_ DATE: \_\_\_\_\_

WOODBURY COUNTY  
ENGINEERS OFFICE