

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
**PROPOSED**  
**HIGHWAY PLANS**

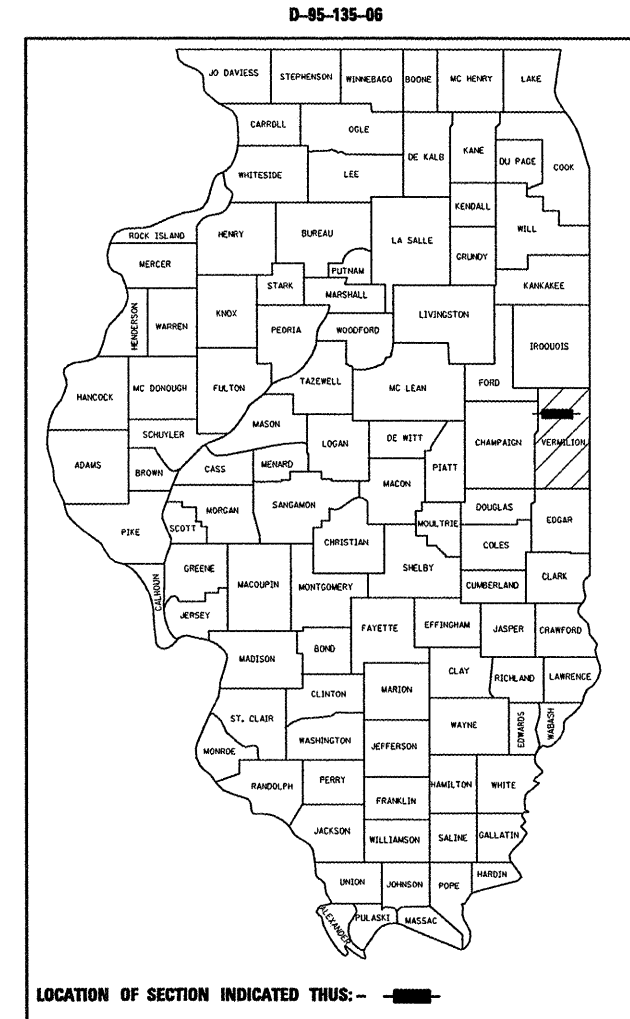
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
711	115CR	VERMILION	39	1
		ILLINOIS	CONTRACT NO. 70617	

FOR INDEX OF SHEETS, SEE SHEET NO. 2  
 FOR SUMMARY OF QUANTITIES, SEE SHEETS NO. 4-5

**FAP ROUTE 711 (US 136)**  
**SECTION 115CR**  
**PROJECT F-0711(012)**  
**CULVERT REPLACEMENTS**  
**VERMILION COUNTY**

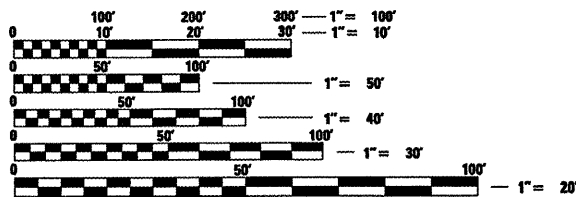
C-95-146-06

DITCH EAST AND WEST OF POTOMAC



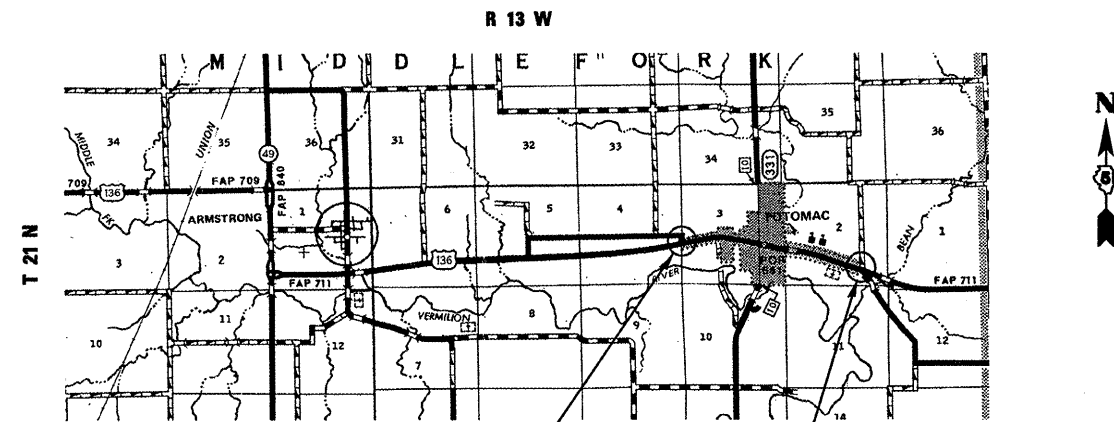
CURRENT TRAFFIC DATA	
2010 ADT	2,150
2020 ADT	2,500
PV + PC%	90.0
SU%	5.6
MU%	4.4

**DESIGN DESIGNATION**  
**MINOR ARTERIAL**



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
 1-800-892-0123  
 OR 811



CULVERT NO. 1  
 EXST. S. N. 092-8031  
 PROP. S. N. 092-8086  
 STA. 172+31.00  
 PROP. PCC BOX CULVERT  
 1 @ 10' X 5' X 85'

CULVERT NO. 2  
 S. N. 092-8032  
 PROP. S. N. 092-8087  
 STA. 272+92.00  
 PROP. PCC BOX CULVERT  
 1 @ 7' X 5' X 45', SKEW = 20° RT FWD

GROSS LENGTH = 585.75 FT. = 0.110 MILE  
 NET LENGTH = 585.75 FT. = 0.110 MILE

PROJECT ENGINEER: KEVIN TRAPP (217-465-4181)  
 PROJECT MANAGER: JEFF M. SHERER

CONTRACT NO. 70617

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED 12/3 2010  
Joseph L. Acosta  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

February 4 2011  
Scott E. Stitt P.E.  
 ENGINEER OF DESIGN AND ENVIRONMENT

February 4 2011  
Christine M. Reed  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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**OF THE STATE OF ILLINOIS**

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# HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
442201-03	CLASS C & D PATCHES
515001-03	NAME PLATES FOR BRIDGES
630001-09	STEEL PLATE BEAM GUARDRAIL
630106	LONG SPAN GUARDRAIL OVER CULVERT
630301-05	SHOULDER WIDENING FOR TYPE 1 GUARDRAIL TERMINALS
635006-03	REFLECTOR & TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER MOUNTING DETAILS
667101-01	PERMANENT SURVEY MARKERS
701001-02	OFF-RD MOVING OPERATIONS 2L, 2W, 4.5 m MIN. AWAY FOR SPEEDS > 45 MPH
701006-03	OFF-RD OPERATIONS 2L, 2W, 4.5 m TO PAVEMENT EDGE FOR SPEEDS > 45 MPH
701011-02	OFF-RD MOVING OPERATIONS 2L, 2W, - DAY ONLY FOR SPEEDS > 45 MPH
701201-04	LANE CLOSURE 2L, 2W - DAY ONLY FOR SPEEDS > 45 MPH
701206-03	LANE CLOSURE 2L, 2W - NIGHT ONLY, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS FOR SPEEDS > 45 MPH
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS - DAY ONLY FOR SPEEDS > 45 MPH
701901-01	

FILE NAME =	USER NAME = sherer.jm	DESIGNED - JMS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS/HIGHWAY STANDARDS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\pwwdot\sherer.jm\d8189007\0579617-shr-gennote.dgn	DRAWN - JMS	REVISED -	711			11SCR	VERMILION	39	2	
PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 70617							
PLOT DATE = 11/16/2010	DATE - 031210	REVISED -	SCALE: N/A			SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		

G.N.-100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-105.09A

ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-107.31

UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES INVOLVED (QUALITY LEVEL C &/OR QUALITY LEVEL D) AND THE ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY.

UTILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THESE ADJUSTMENTS ARE BEING PERFORMED. J.U.L.I.E. - JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS SYSTEM (800)892-0123 OR 811.

G.N.-250C

SEEDING, CLASS 7 IS INCLUDED IN THIS CONTRACT TO SEED NEW AREAS DISTURBED BY CONSTRUCTION ALONG WITH AREAS OF CLASS 2 PERMANENT SEEDING. ALL OF THE CLASS 7 SEEDING SHALL BE PLACED ALONG WITH THE CLASS 2 SEEDING TO HELP PROMOTE ACCELERATED VEGETATION GROWTH.

G.N.-442B -- PATCHING SCHEDULES

THE PATCHING SCHEDULES INCLUDED IN THE PLANS REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF COMPLETION OF THE PLANS FOR LETTING. VARIATIONS IN LOCATION AND SIZES OF BOTH FULL-DEPTH AND PARTIAL-DEPTH PATCHES MAY OCCUR.

G.N.-540

THE CONTRACTOR SHALL ASSEMBLE AND MATCH-MARK THE PRECAST BOX CULVERT SECTIONS AND END SECTIONS PRIOR TO SHIPMENT OF THESE COMPONENTS FROM THE MANUFACTURER, AND AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER FIT ON EACH JOINT. ANY SECTIONS OR END SECTIONS WHICH DO NOT PROVIDE A PROPER FIT AT THE JOINT SHALL BE REJECTED BY THE ENGINEER AND REPLACED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION BEING ALLOWED.

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR PRECAST CONCRETE BOX CULVERTS OF THE SIZE SPECIFIED.

G.N.-667

THE RESIDENT ENGINEER SHALL CONTACT THE PROGRAM DEVELOPMENT CHIEF OF SURVEYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE FOR INSTRUCTION AS TO SETTING OF TEMPORARY OR PERMANENT TIES FOR CENTERLINE ALIGNMENT CONTROL SURVEY MARKERS (PCDS, PTDS, AND PDS). PROJECT IMPLEMENTATION PERSONNEL WILL BE RESPONSIBLE FOR SETTING THESE MARKERS.

G.N.-1004.01

COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

G.N.-Z0038

AN ALUMINUM TABLET OF THE TYPE SHOWN ON STANDARD 667101 SHALL BE PLACED ON THE PROPOSED STRUCTURE AS DIRECTED BY THE ENGINEER. THE BENCH MARK ELEVATION WILL BE ESTABLISHED AND MARKED BY THE DEPARTMENT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR PERMANENT BENCH MARKS.

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT

PLAN NOTE: EXISTING FENCE ON SOUTH QUADRANTS OF CULVERT NO. 2 SHALL BE REMOVED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE VARIOUS REMOVAL ITEMS ASSOCIATED WITH THE PROJECT.

PLAN NOTE: THE EXISTING DITCH ON THE SOUTH QUADRANTS OF CULVERT NO. 2 SHALL BE CLEARED OF ALL BRUSH AND FOILAGE TO THE LIMITS SHOWN IN THE PLANS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR THE VARIOUS EARTHWORK AND SEEDING ITEMS ASSOCIATED WITH THE PROJECT.

FILE NAME =	USER NAME = shener_jm	DESIGNED - JMS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pwwork\pwwork\shener_jm\0189007\057	617-shr-gennote.dgn	DRAWN - JMS	REVISED -		SCALE: N/A	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	711	11SCR	VERMILION	39	3
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -										
	PLOT DATE = 11/16/2010	DATE - 031210	REVISED -										CONTRACT NO. 70617
ILLINOIS FED. AID PROJECT													

LOCATION OF WORK:

CULVERT NO. 1

CULVERT NO. 2

STA. 172+31

STA. 272+92

RURAL

RURAL

S.N. 092-8086

S.N. 092-8087

PROP PCBC

PROP PCBC

10 X 5

7 X 5

80% FED

80% FED

20% STATE

20% STATE

0040

0040

CONSTRUCTION TYPE CODE:

CODE NO	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY
20200100	EARTH EXCAVATION	CU YD	183.0	50.0	133.0
20400800	FURNISHED EXCAVATION	CU YD	92.0	26.0	66.0
20700220	POROUS GRANULAR EMBANKMENT	CU YD	374.0	165.0	209.0
21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	730.0	400.0	330.0
* 25000200	SEEDING, CLASS 2	ACRE	1.0	0.4	0.6
* 25000350	SEEDING, CLASS 7	ACRE	1.0	0.4	0.6
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	90.0	36.0	54.0
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	90.0	36.0	54.0
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	90.0	36.0	54.0
* 25100115	MULCH, METHOD 2	ACRE	1.0	0.4	0.6
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100.0	40.0	60.0
28000305	TEMPORARY DITCH CHECKS	FOOT	260.0	80.0	180.0
28000400	PERIMETER EROSION BARRIER	FOOT	1,196.0	397.0	799.0
28100101	STONE RIPRAP, CLASS A1	SQ YD	374.0	252.0	122.0
28100107	STONE RIPRAP, CLASS A4	SQ YD	213.0	213.0	
28200200	FILTER FABRIC	SQ YD	213.0	213.0	
44201335	CLASS C PATCHES, TYPE IV, 8 INCH	SQ YD	235.0	125.0	110.0
44213100	PAVEMENT FABRIC	SQ YD	235.0	125.0	110.0
44213204	TIE BARS 3/4"	EACH	36.0	17.0	19.0
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	351.0	173.0	178.0

\* SPECIALTY ITEMS

CONTINUED NEXT SHEET

FILE NAME =	USER NAME = sherer_jm	DESIGNED - JMS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw_work\pwidot\sherer_jm\d0189007\0570617-sht-500.dgn	DRAWN - JMS	REVISED -	711					115CR	VERMILION	39	4	
PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -	SCALE: N/A SHEET NO. 1 OF 2 SHEETS STA. TO STA.					CONTRACT NO. 70617				
PLOT DATE = 11/16/2010	DATE - 031210	REVISED -	ILLINOIS FED. AID PROJECT									



LOCATION OF WORK:

CULVERT NO. 1

CULVERT NO. 2

STA. 172+31  
RURAL  
S.N. 092-8086  
PROP PCBC  
10 X 5  
80% FED  
20% STATE  
0040

STA. 272+92  
RURAL  
S.N. 092-8087  
PROP PCBC  
7 X 5  
80% FED  
20% STATE  
0040

CONSTRUCTION TYPE CODE:

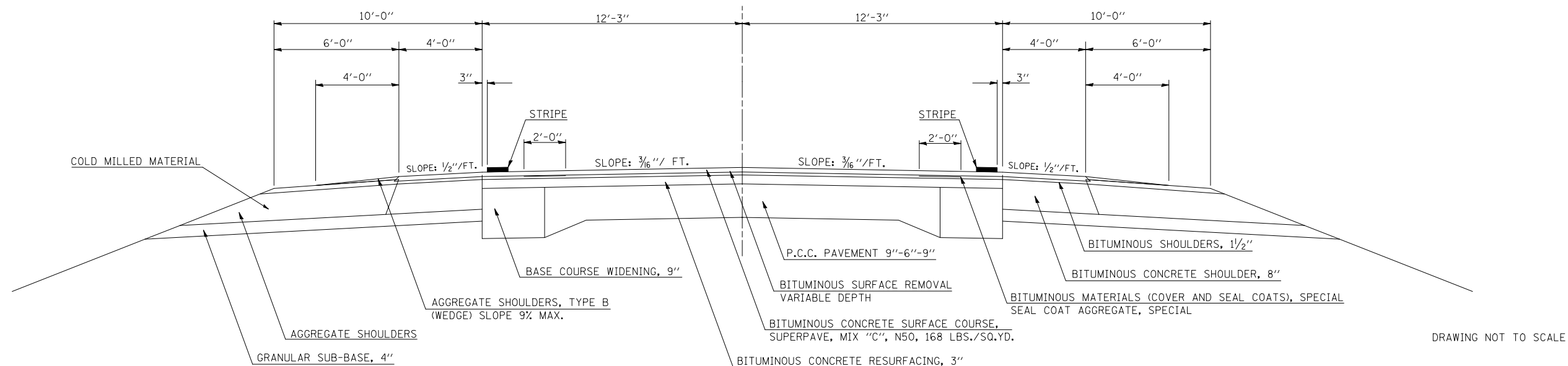
CODE NO	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1.0	1.0	
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1.0		1.0
51500100	NAME PLATES	EACH	2.0	1.0	1.0
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2.0	2.0	
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	2.0		2.0
54011005	PRECAST CONCRETE BOX CULVERTS 10' X 5'	FOOT	85.0	85.0	
54020705	PRECAST CONCRETE BOX CULVERTS 7' X 5' (M273)	FOOT	40.0		40.0
* 63000350	LONG-SPAN GUARDRAIL OVER CULVERT, 12 FOOT 6 IN SPAN	FOOT	325.0		325.0
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4.0		4.0
63200310	GUARDRAIL REMOVAL	FOOT	400.0		400.0
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	5.0	2.5	2.5
67100100	MOBILIZATION	L SUM	1.0	0.5	0.5
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0	0.5	0.5
70100455	TRAFFIC CONTROL AND PROTECTION, STANDARD 701206	L SUM	1.0	0.5	0.5
* 78001110	PAINT PAVEMENT MARKING-LINE 4"	FOOT	50.0	20.0	30.0
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4.0		4.0
* X0323115	REFLECTOR MARKERS, TYPE A	EACH	8.0		8.0
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	20.0	10.0	10.0
Z0038700	PERMANENT BENCH MARKS	EACH	2.0	1.0	1.0
Z0037200	PAVEMENT GRINDING	SQ YD	235.0	125.0	110.0

\* SPECIALTY ITEMS

FILE NAME =	USER NAME = sherer,jm	DESIGNED - JMS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cc:\pwwork\pwwork\sherer,jm\d0189007\057617-sht-500.dgn	DRAWN - JMS	CHECKED -	REVISED -		711	115CR	VERMILION	39	5				
PLOT SCALE = 100.0000 "/ IN.	CHECKED -	REVISOR -			CONTRACT NO. 70617								
PLOT DATE = 11/16/2010	DATE - 031210	REVISED -			SCALE: N/A	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

## EXISTING TYPICAL CROSS SECTION

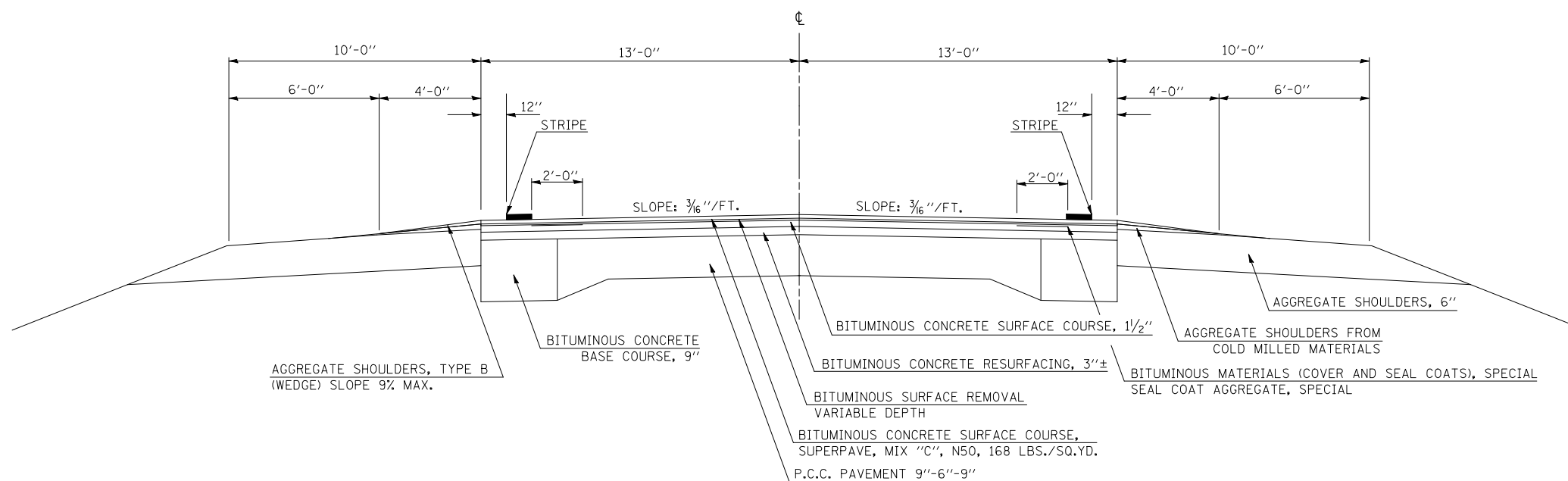
STATION TO STATION  
82+25.00 190+10.20



DRAWING NOT TO SCALE

## EXISTING TYPICAL CROSS SECTION

STATION TO STATION  
233+34.80 615+79.00

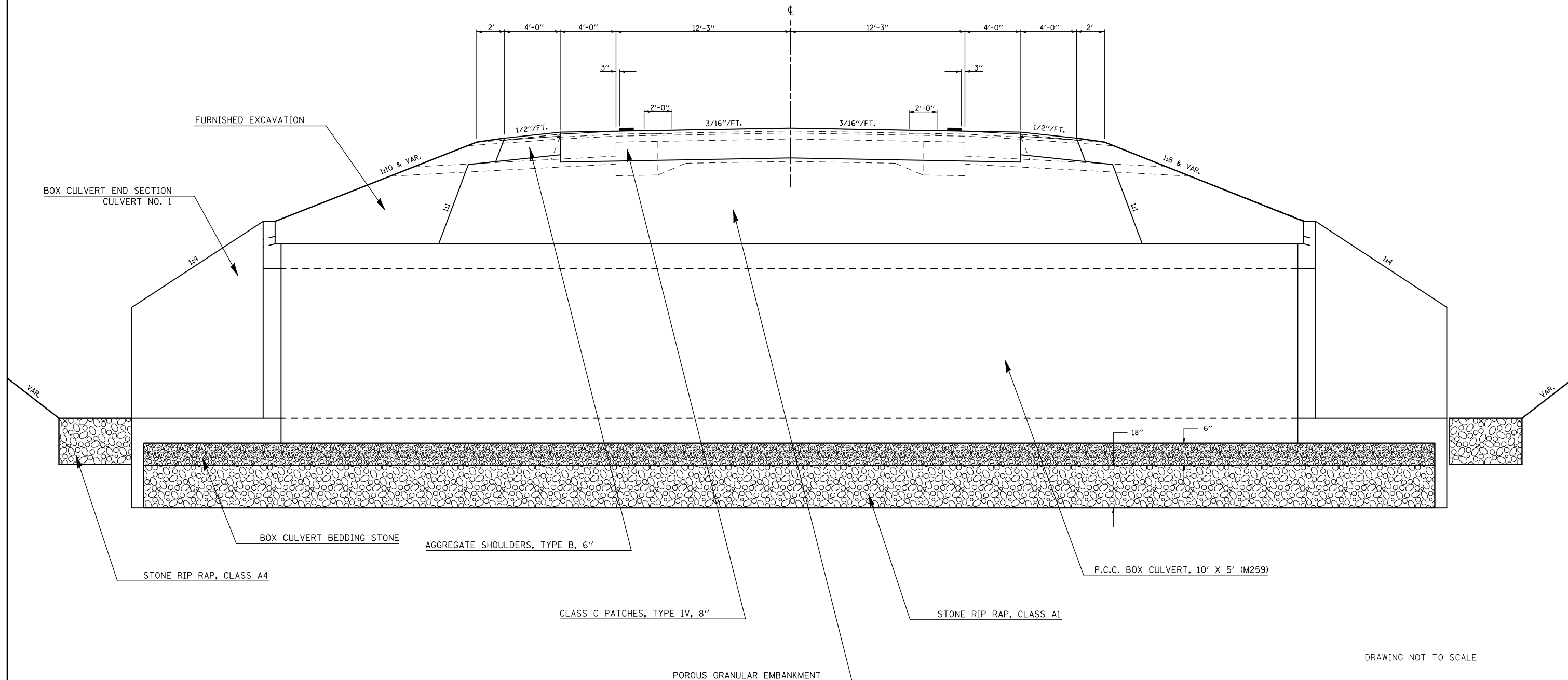


DRAWING NOT TO SCALE

FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING TYPICAL CROSS-SECTIONS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw\work\p\dot\shererjm\d0189007\0570617-sht-typicals.dgn		DRAWN - JMS	REVISED -		SCALE: N/A	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	711	115CR	VERMILION	39	6
		CHECKED -	REVISED -					CONTRACT NO. 70617					
		DATE - 031210	REVISED -		ILLINOIS FED. AID PROJECT								

# 1 PROPOSED TYPICAL CROSS SECTION

S. N. 092-8086 STATION 172+16.58 TO STATION 172+49.53



DRAWING NOT TO SCALE

FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -
ct:\pw\work\p\dot\shererjm\d0189007\0570617-sht-typicals.dgn		DRAWN - JMS	REVISED -
	PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 11/16/2010	DATE - 031210	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

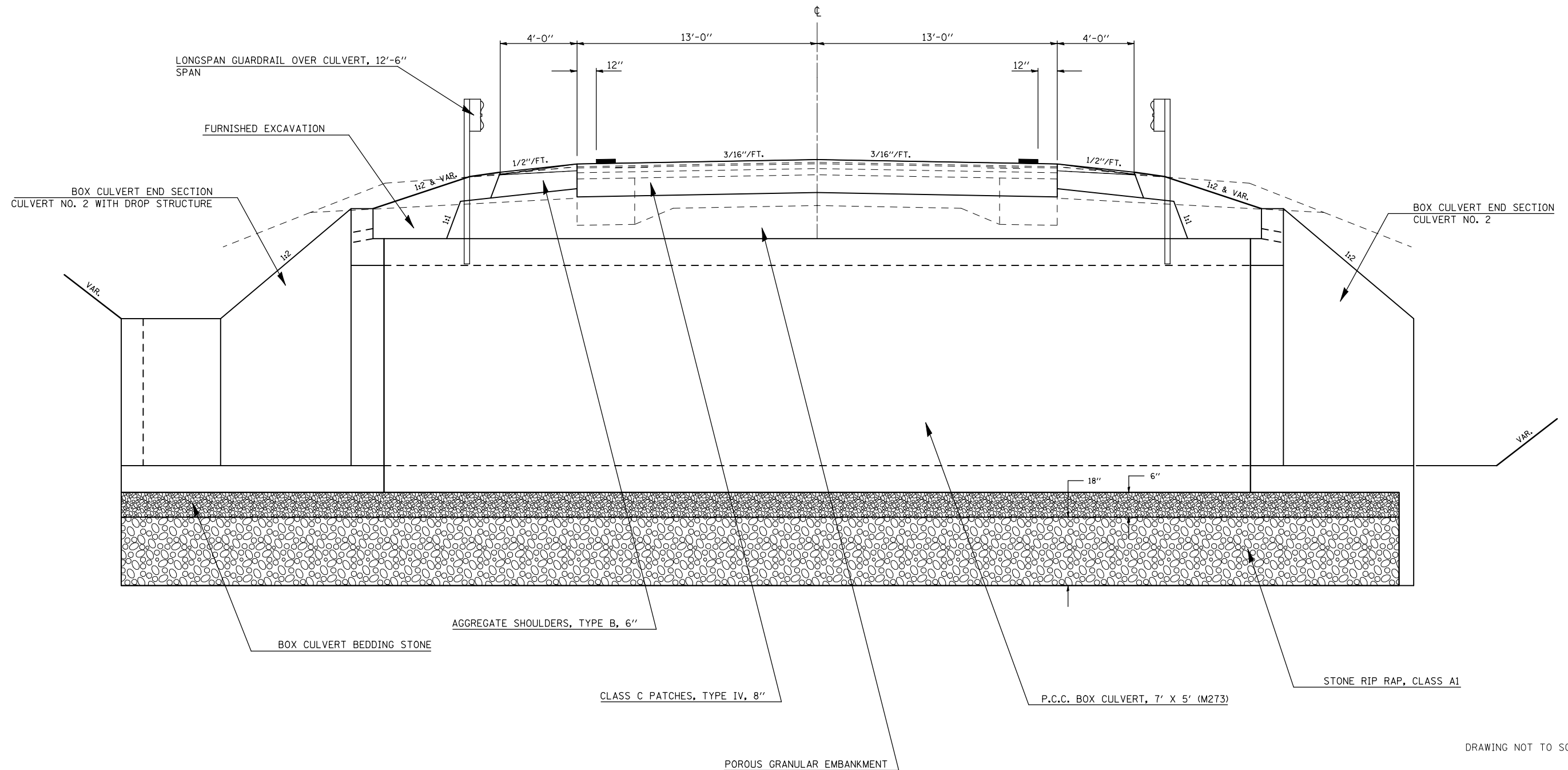
PROPOSED TYPICAL CROSS-SECTIONS

SCALE: N/A SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
711	115CR	VERMILION	39	7
CONTRACT NO. 70617				
ILLINOIS FED. AID PROJECT				

## 2 PROPOSED TYPICAL CROSS SECTION

S. N. 092-8087    STATION 272+69.09    TO    STATION 273+07.23



DRAWING NOT TO SCALE

FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED TYPICAL CROSS-SECTIONS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\p\dot\shererjm\d0189007\0570617-sht-typicals.dgn		DRAWN - JMS	REVISED -		711	115CR	VERMILION	39	8			
PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 70617			ILLINOIS FED. AID PROJECT				
PLOT DATE = 11/16/2010		DATE - 031210	REVISED -		SCALE: N/A	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.				

**EARTHWORK SCHEDULE**

STATION	TO	STATION	20200100 EARTH EXCAVATION (CU YD)	ADJUSTED FOR SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	20400800 *FURNISHED EXCAVATION (CU YD)	
<b>CULVERT NO. 1</b>							
LT/RT	171+00	LT/RT	173+50	50.0	38.0	64.0	-26.0
			<b>SUB-TOTAL =</b>	50.0	38.0	64.0	-26.0
<b>CULVERT NO. 2</b>							
LT/RT	271+00	LT/RT	274+00	133.0	100.0	166.0	-66.0
			<b>SUB-TOTAL =</b>	133.0	100.0	166.0	-66.0
			<b>TOTAL =</b>	183.0	138.0	230.0	-92.0

\*FURNISHED EXCAVATION = EARTH EXCAVATION X ADJUSTMENT FACTOR (0.75) - EMBANKMENT

**21301052 EXPLORATION TRENCH, 52"**

STATION	TO	STATION	FOOT	
<b>CULVERT NO. 1</b>				
RT	171+33.00	RT	172+33.00	200.0
LT	171+33.00	LT	172+33.00	200.0
			<b>SUB-TOTAL =</b>	400.0
<b>CULVERT NO. 2</b>				
RT	272+00.00	RT	273+65.09	165.0
LT	272+00.00	LT	273+65.09	165.0
			<b>SUB-TOTAL =</b>	330.0
			<b>TOTAL =</b>	730.0

**\*28100107 STONE RIPRAP, CLASS A4**

STATION	SQ YD	28200200 FILTER FABRIC SQ YD	
<b>CULVERT NO. 1</b>			
LT	172+33.00	76.0	76.0
RT	172+33.00	137.0	137.0
		<b>TOTAL =</b>	213.0

\* THE ENGINEER MAY MODIFY LOCATIONS OF STONE RIPRAP, CLASS A4 BASED ON FIELD CONDITIONS

**LANDSCAPING SCHEDULE**

STATION	TO	STATION	AREA (ACRE)	28000250 TEMPORARY EROSION SEEDING (POUND)	25000350 SEEDING CLASS 7 (ACRE)	25000200 SEEDING CLASS 2 (ACRE)	25000400 NITROGEN FERT. (POUNDS)	25000500 PHOS FERT. (POUNDS)	25000600 POTAS. FERT. (POUNDS)	25100115 MULCH METHOD 2 (ACRE)	
<b>CULVERT NO. 1</b>											
LT	171+29.83	LT	173+36.77	0.2	20.0	0.2	0.2	18.0	18.0	18.0	0.2
RT	171+28.69	RT	173+09.85	0.2	20.0	0.2	0.2	18.0	18.0	18.0	0.2
			<b>SUB-TOTAL =</b>	0.4	40.0	0.4	0.4	36.0	36.0	36.0	0.4
<b>CULVERT NO. 2</b>											
LT	270+72.44	LT	274+32.89	0.3	30.0	0.3	0.3	27.0	27.0	27.0	0.3
RT	270+47.13	RT	274+21.32	0.3	30.0	0.3	0.3	27.0	27.0	27.0	0.3
			<b>SUB-TOTAL =</b>	0.6	60.0	0.6	0.6	54.0	54.0	54.0	0.6
			<b>TOTAL =</b>	1.0	100.0	1.0	1.0	90.0	90.0	90.0	1.0

SCHEDULE NOTE: IT IS THE INTENT THAT CLASS 7 SEEDING BE PLACED ALONG WITH THE CLASS 2 SEEDING AS A SUPPLEMENTAL SEEDING TO PROMOTE ACCELERATED VEGETATION GROWTH.

**28000305 TEMPORARY DITCH CHECKS**

STATION	FOOT	
<b>CULVERT NO. 1</b>		
LT	171+28.69	20.0
RT	171+23.12	20.0
LT	173+14.10	20.0
RT	173+43.89	20.0
<b>SUB-TOTAL =</b>		80.0
<b>CULVERT NO. 2</b>		
LT	270+47.24	20.0
RT	270+72.44	20.0
LT	271+47.27	20.0
RT	271+59.18	20.0
LT	272+38.22	20.0
RT	272+58.67	20.0
LT	273+21.13	20.0
RT	274+01.27	20.0
LT	274+21.25	20.0
<b>SUB-TOTAL =</b>		180.0
<b>TOTAL =</b>		260.0

**28000400 PERIMETER EROSION BARRIER**

STATION	TO	STATION	FOOT	
<b>CULVERT NO. 1</b>				
RT	171+29.83	RT	173+36.77	212.0
LT	171+28.69	LT	173+09.85	185.0
			<b>SUB-TOTAL =</b>	397.0
<b>CULVERT NO. 2</b>				
RT	270+72.44	RT	274+32.89	384.4
LT	270+47.13	LT	274+21.32	414.3
			<b>SUB-TOTAL =</b>	799.0
			<b>TOTAL =</b>	1196.0

FILE NAME =	USER NAME = sherer_jm	DESIGNED - JMS	REVISED -
ct:\pw\work\p\dot\sherer_jm\d0189007\0570617-sht-schedules.dgn		DRAWN - JMS	REVISED -
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 11/22/2010	DATE - 031210	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: N/A SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
711	115CR	VERMILION	39	9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70617	

**SCHEDULE OF DRAINAGE STRUCTURES**

	20700220 POROUS GRAN EMBANKMENT (CU YD)	28100101 STONE RIPRAP CLASS A1 SQ YD	44201335 CLASS C PATCHES TYPE 4, 8" SQ YD	50100300 REM EXST STRUCT NUMBER 1 (EACH)	50100400 REM EXST STRUCT NUMBER 2 (EACH)	51500100 NAME PLATES (EACH)	54001001 BOX CUL END SECT CULV. NO. 1 (EACH)	54001002 BOX CUL END SECT CULV. NO. 2 (EACH)	54011005 PCBC 10X5 (M259) (FOOT)	54020705 PCBC 7X5 (M273) (FOOT)	Z0038700 PERM. PAVEMENT BENCH GRINDING MARK EACH	Z0037200 SQ YD
CULVERT NO. 1	172+33.00	165.0	252.0	125.0	1.0	1.0	2.0		85.0		1.0	125.0
CULVERT NO. 2	272+92.00	209.0	122.0	110.0		1.0		2.0		40.0	1.0	110.0
<b>TOTALS =</b>	<b>374.0</b>	<b>374.0</b>	<b>235.0</b>	<b>1.0</b>	<b>1.0</b>	<b>2.0</b>	<b>2.0</b>	<b>2.0</b>	<b>85.0</b>	<b>40.0</b>	<b>2.0</b>	<b>235.0</b>

**63000350 LONG SPAN GUARDRAIL OVER CULVERT, 12'-6" SPAN**

	STATION	TO	STATION	FOOT
CULVERT NO. 2				
RT	271+87.00		RT 273+49.50	162.5
LT	271+72.27		LT 273+34.77	162.5
<b>TOTAL =</b>				<b>325.0</b>

**48101500 AGGREGATE SHOULDERS, TYPE B, 6"**

	STATION	TO	STATION	LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)
CULVERT NO. 1						
RT	171+33.00		173+33.00	200.0	4	88.9
LT	171+33.01		173+22.69	189.7	4	84.3
				<b>SUB-TOTAL =</b>		<b>173.2</b>
CULVERT NO. 2						
RT	271+99.75		273+99.75	200.0	4	88.9
LT	271+84.58		273+84.58	200.0	4	88.9
				<b>SUB-TOTAL =</b>		<b>177.8</b>
				<b>TOTAL =</b>		<b>351.0</b>

**63100167 TRAFFIC BARRIER TERMINAL TYPE 1(TANGENT)**

	STATION	TO	STATION	EACH
CULVERT NO. 2				
LT	271+22.27		RT 271+72.27	1.0
RT	271+37.00		LT 271+87.00	1.0
LT	273+34.77		LT 273+84.77	1.0
RT	273+49.50		RT 273+99.50	1.0
			<b>TOTAL =</b>	<b>4.0</b>

**78201000 TERMINAL MARKER DIRECT APPLIED**

	STATION	EACH
CULVERT NO. 2		
LT	271+22.27	1.0
RT	271+37.00	1.0
LT	273+84.77	1.0
RT	273+99.50	1.0
	<b>TOTAL =</b>	<b>4.0</b>

**ADDITIONAL PAVEMENT PATCHING ITEMS**

**63200310 GUARDRAIL REMOVAL**

	STATION	TO	STATION	FOOT
CULVERT NO. 2				
RT	271+60.73		RT 273+61.39	200.0
LT	272+00.00		LT 274+00.00	200.0
			<b>TOTAL =</b>	<b>400.0</b>

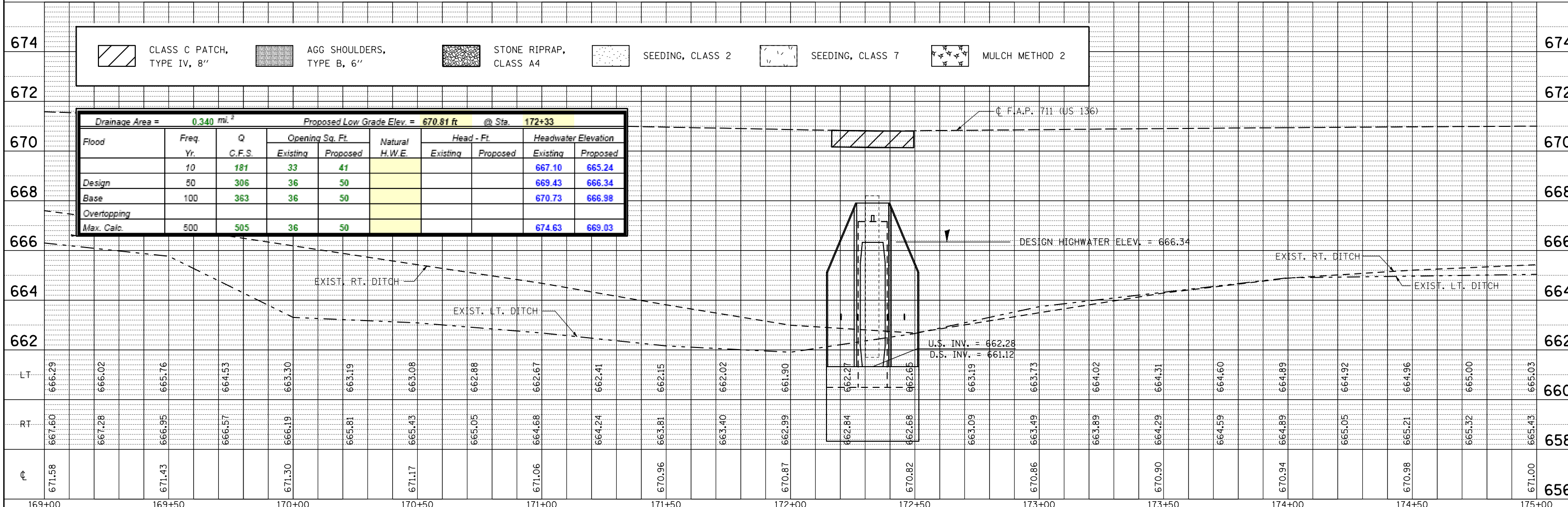
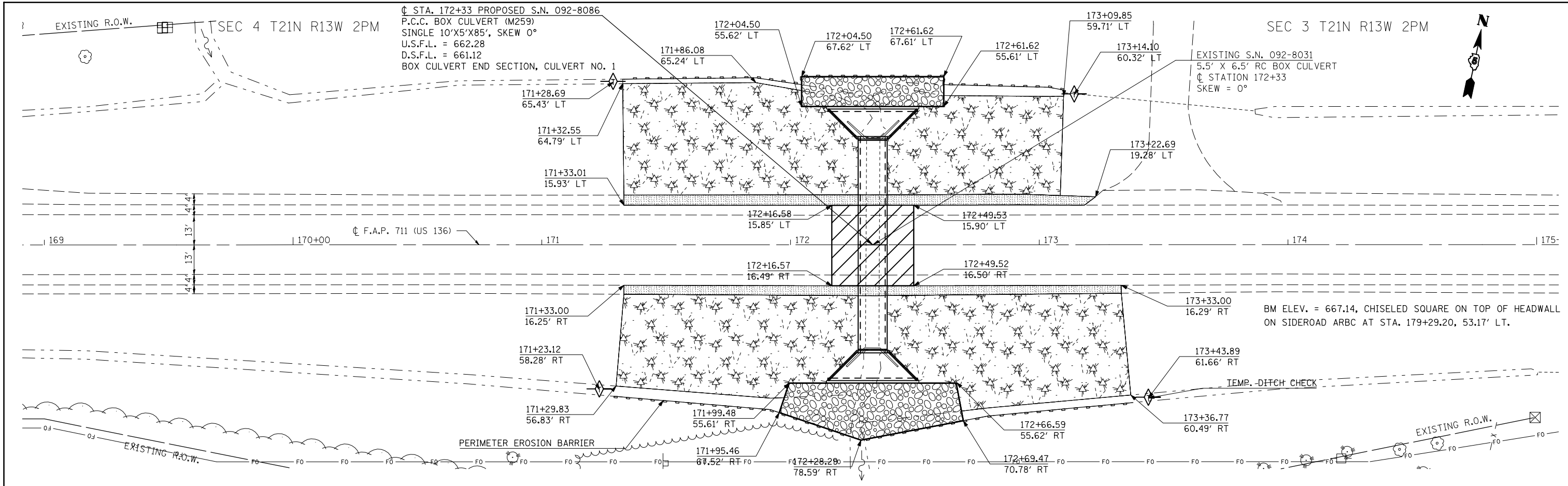
**X0323115 REFLECTOR MARKER, TYPE A**

	STATION	TO	STATION	EACH
CULVERT NO. 2				
RT	271+87.00		RT 273+49.50	4.0
LT	271+72.27		LT 273+34.77	4.0
			<b>TOTAL =</b>	<b>8.0</b>

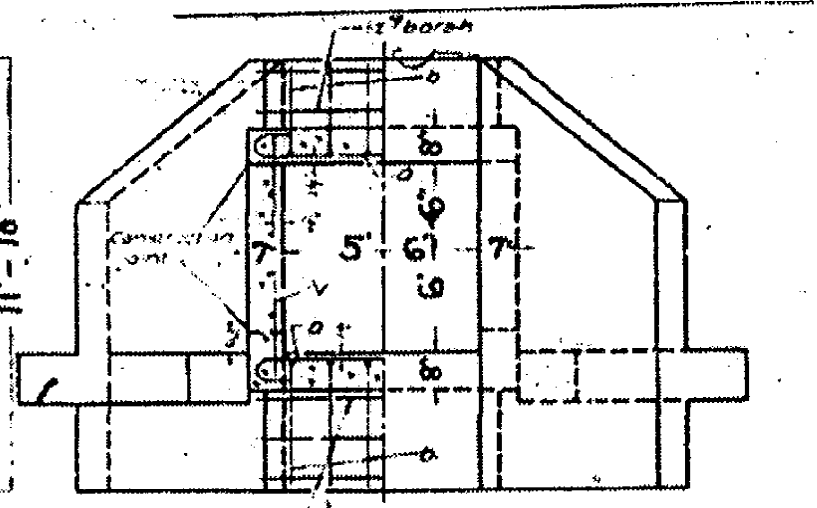
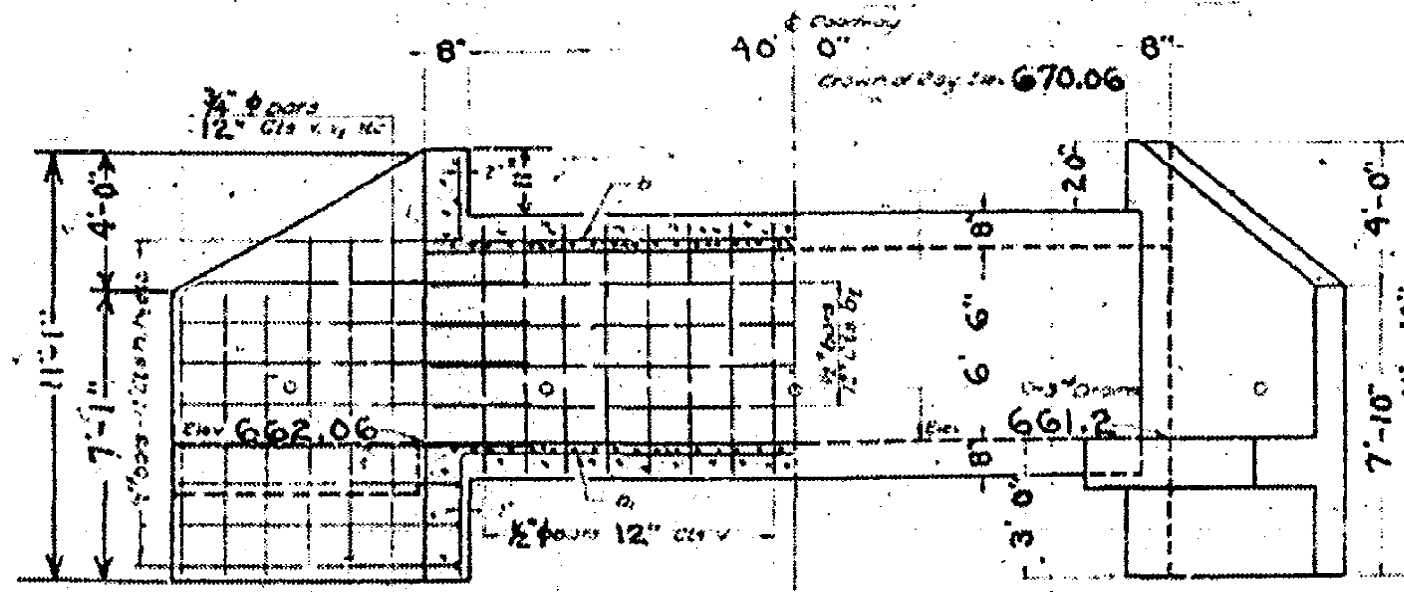
	44213204 TIE BARS 3/4"	78001110 PANT PVT. MK LN 4"
CULVERT NO. 1	125.0	17.0
CULVERT NO. 2	110.0	19.0
	<b>TOTAL =</b>	<b>36.0</b>

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CHECKED BY	
	DATE	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CHECKED BY	
	DATE	

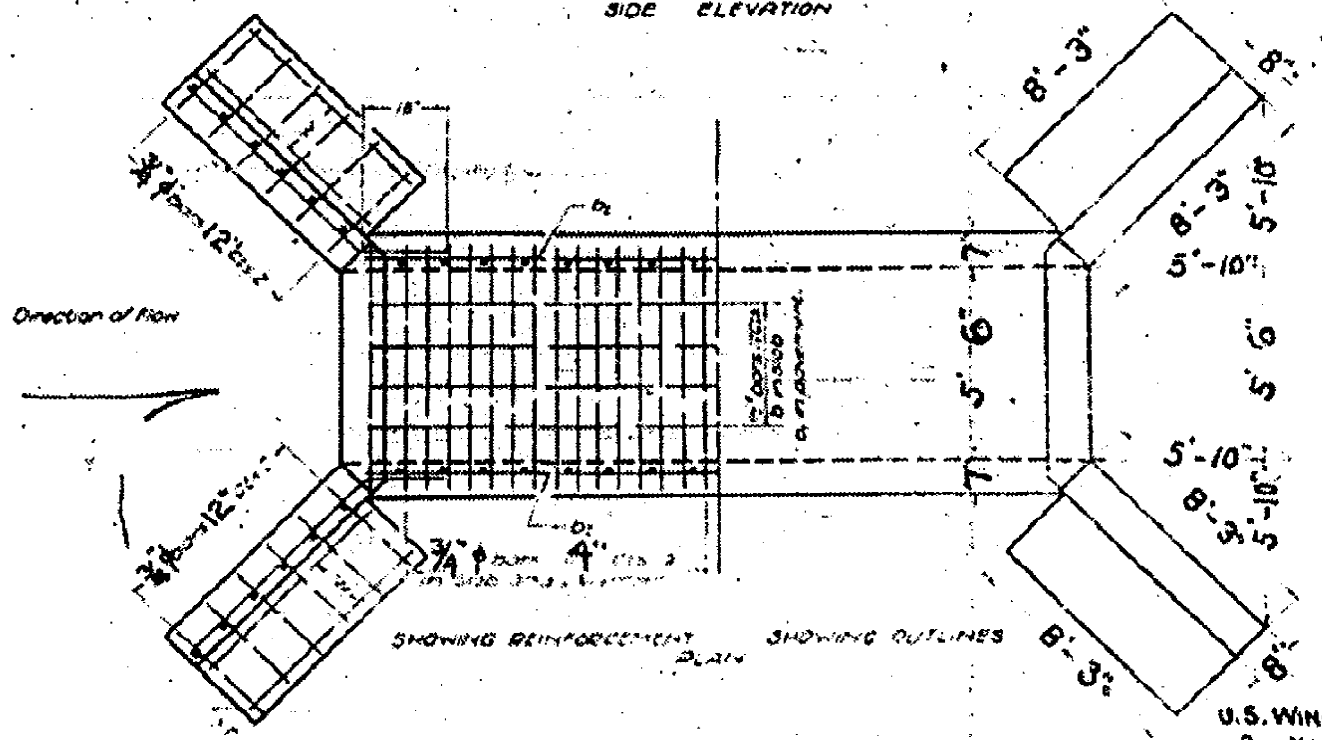


FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN VIEW OF ACROSS ROAD BOX CULVERT CULVERT NO. 1, S.N. 092-8086, STA. 172 + 33.00</b>	F.A.P. RTE. 711	SECTION 115CR	COUNTY VERMILION	TOTAL SHEETS 39	SHEET NO. 11
CONTRACT NO. 70617	SCALE: 1:20	SHEET NO. 1 OF 8 SHEETS	STA. 169+00 TO STA. 175+00		ILLINOIS FED. AID PROJECT					
PLOT SCALE = 40.0000' / IN.	CHECKED - JMS	REVISED -								
PLOT DATE = 11/16/2010	DATE - 092010	REVISED -								



HALF LONGITUDINAL SECTION SIDE ELEVATION HALF ELEVATION

HALF SECTION END ELEVATION HALF ELEVATION



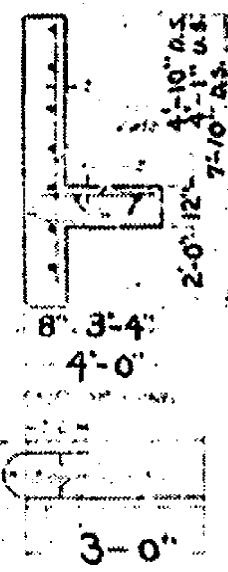
Direction of flow

SHOWING REINFORCEMENT PLAN SHOWING OUTLINES

NOTES:  
Class Y concrete shall be used throughout  
All reinforcing steel shall be wired securely  
in place before the concrete is poured

U.S. WING  
2-V4  
3-V5  
3-V1

D.S. WING  
2-V1  
3-V2  
3-V3



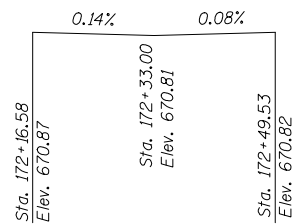
BILL OF MATERIAL

Bar	Number	Size	Length
0	24	3/4"	8'-3"
0	12	1/2"	22'-6"
0	12	1/2"	22'-6"
0	24	1/2"	22'-6"
V1	6	1/2"	8'-6"
V1	10	1/2"	6'-0"
V1	30	1/2"	9'-6"
V1	4	1/2"	7'-0"
V1	4	1/2"	5'-0"
V1	80	1/2"	7'-6"
V1	4	3/4"	7'-6"
V1	6	3/4"	8'-6"
V1	12	3/4"	10'-9"
V1	4	3/4"	7'-0"
V1	8	1/2"	6'-0"
V1	3	3/4"	4'-6"
Class Y Concrete			37.8
Reinforcing Steel 101			3/40

SPECIAL CULVERT DESIGN  
S.B.I. RT. 119 - CONST. SEC. II  
VERMILION CO.  
STR. 172 + 31



EXISTING STRUCTURE: S.N. 092-8031 was constructed in 1934 at STA. 172+31 as a 6.5' X 5.5' cast-in-place box culvert with concrete headwalls as S.B.I. 119, Sec. 115 in Vermilion County. In 1972 the box was extended under Section 115(W,R,S). The existing structure is to be completely removed and replaced. There will be no salvage of any materials. Stage Construction will be utilized. BENCHMARK ELEV. = 667.14 Chiseled square on top of Headwall on sideroad ARBC at STA.179+29.20, 53.7' LT.



**PROFILE GRADE**

Along  $\phi$  Roadway

STATION 172+33.00  
BUILT 201\_ BY  
STATE OF ILLINOIS  
F.A.P. RT. 711 SEC. 115CR  
LOADING HS 20  
STRUCTURE NO. 092-8086

**NAME PLATE**

See Std. 515001

**INDEX OF SHEETS**

1. Plan & Profile
2. As Built Plan
3. Porous Granular Embankment Detail
4. General Plan and Elevation
5. Box Culvert End Section Details

**DESIGN SPECIFICATIONS**

2002 AASHTO

**LOADING HS20-44**

Allow 50#/sq.ft. for future wearing surface

**DESIGN STRESSES**

FIELD UNITS

$f'c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)  
 $f_y = 65,000$  psi (welded wire fabric)

PRECAST UNITS

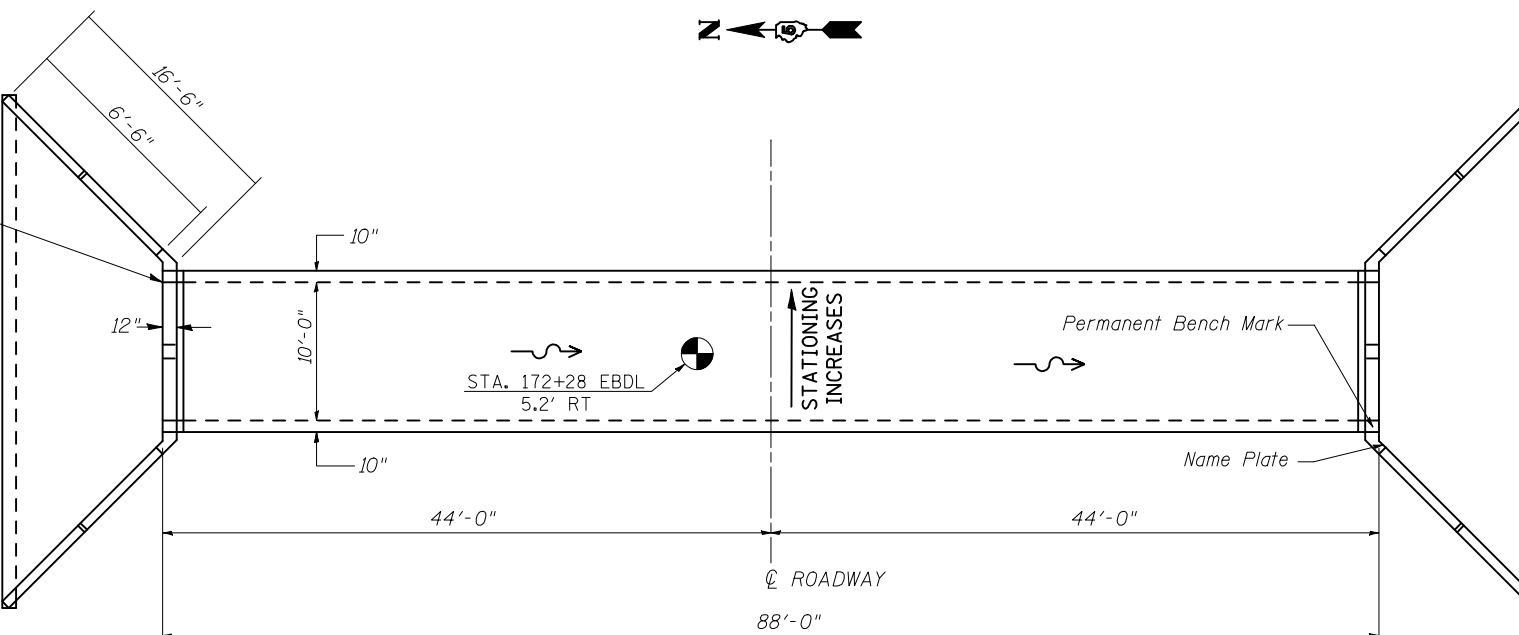
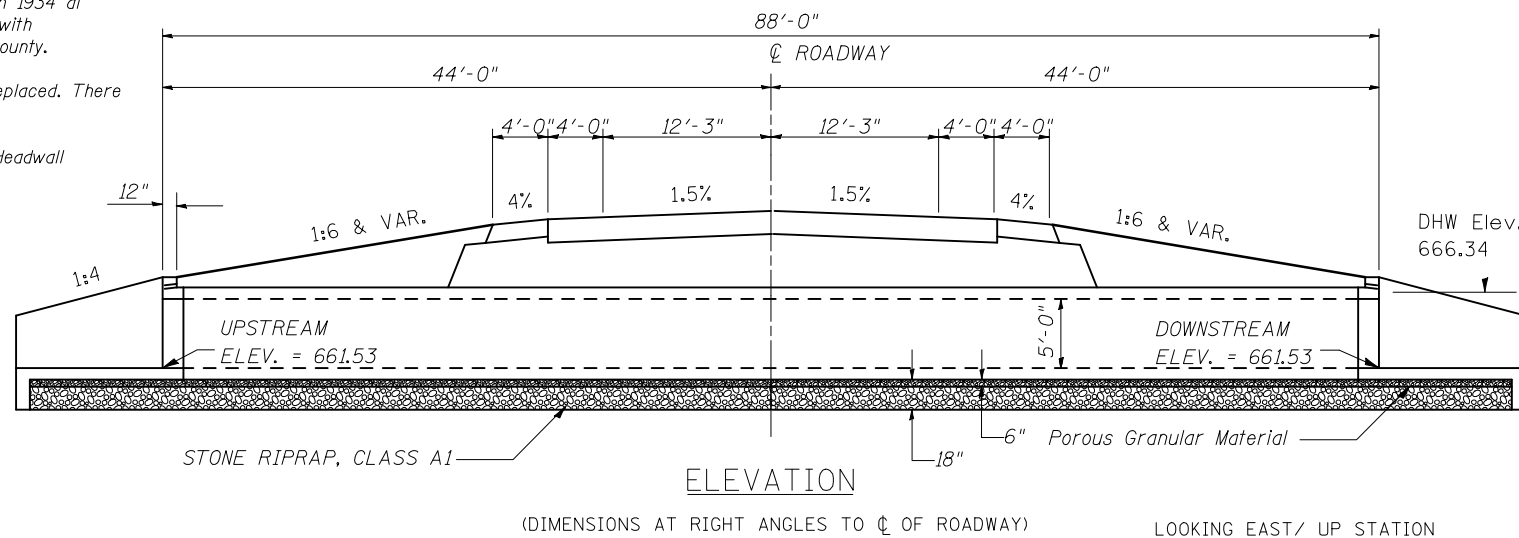
$f'c = 5,000$  psi  
 $f_y = 65,000$  psi (welded wire fabric)

1. Plan & Profile
2. As Built Plan
3. General Plan and Elevation
4. Porous Granular Embankment Detail
5. Box Culvert End Section Details
6. Soil Borings

**WATERWAY INFORMATION**

Drainage Area = 0.34 sq. mi. Low Grade Elev. 670.81 @ Sta. 172+33							
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E.	Head - Ft. Exist.	Headwater El. Prop.
	10	181	33	41			667.1 665.2
Design	50	306	36	50			669.4 666.3
Base	100	363	36	50			670.7 667.0
Overtopping							
Max. Calc.	500	505	36	50			674.6 669.0

Note: Information provided using the Regression Method.



**PLAN**

Pavement Borings

**General Notes**

Build tops of headwalls parallel to the grade lines.

All construction joints shall be bonded according to Article 503.09 of the Standard Specifications.

Reinforcement bars shall conform to the requirements of ASTM A706 Gr. (IL Modified). See Special Provisions.

All bars should be rounded and conform to the requirements of Article 1006.10 of the Standard Specification.

The 6" Porous Granular Material required per Art. 540.06 of the Standard Specifications shall also extend beneath the Box Culvert End Sections and shall be considered included in the cost of Precast Concrete Box Culverts and Box Culvert End Sections.

When lapping sheets of welded wire fabric, the overlap measured between the outermost cross wires of each fabric sheet shall not be less than 8"

End Sections will be paid for at the contract unit price per each for BOX CULVERT END SECTIONS, as outlined in Section 540 of the Standard Specifications.

Class SI Concrete shall be used throughout.

Concrete, Rebar, and Welded Wire Fabric quantities and lengths calculated for the cast-in-place End Sections may vary based on the precast box culverts supplied.

Drain holes shall be provided in accordance with Article 503.11 of the Standard Specifications.

The precast manufacturer shall design and detail a connection/construction joint between the precast concrete box sections and the cast-in-place apron and wingwall. The minimum area of reinforcement passing through these construction joints shall be 0.20 sq. in./lineal ft. of welded wire fabric. The design shall be detailed in the shop drawings. The cost of the connection is included in the cost of the end section.

The box culvert end section may be built in the field or using precast construction methods. If the contractor elects to use precast construction methods, shop drawings and a proposed construction sequence shall be submitted to the Engineer for approval. See Special Provisions.

The ends of the precast box sections adjacent to the end section shall be formed without the male and female shapes specified in Article 8.1 of AASHTO M259. See Sections B-B, D-D, E-E, and F-F on Sheet 2.

The design fill height for this box is greater than 2 feet. The Precast Concrete Box Culvert Sections shall conform to the requirements of AASHTO M 259.

The joints between precast box sections shall be sealed, all voids filled with a mastic joint sealer. In addition, the joints shall be externally sealed on all four sides with a 13 inch wide external sealing band. The seal shall be centered over the joint, secured in place and protected during the backfilling process.

All dimensions are in FEET (') - INCHES (") unless otherwise noted.

Drawings not to scale.

**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Removal of Existing Structures No. 1	Each	1.0
Precast Concrete Box Culvert 10'x5'(M259)	Foot	85.0
Box Culvert End Section, Culvert No. 1	Each	2.0
Name Plates	Each	1.0
Permanent Bench Marks	Each	1.0
Porous Granular Embankment	Cu.Yd.	165.0
Stone Riprap, Class A1	Sq.Yd.	252.0

**GENERAL PLAN AND ELEVATION**  
**SINGLE 10'x5' PRECAST BOX CULVERT**  
**F.A.P. ROUTE 711 - SECTION 115CR**  
**VERMILION COUNTY**  
**STATION 172+31.00 S.N. 092-8086**  
**CULVERT NO. 1**

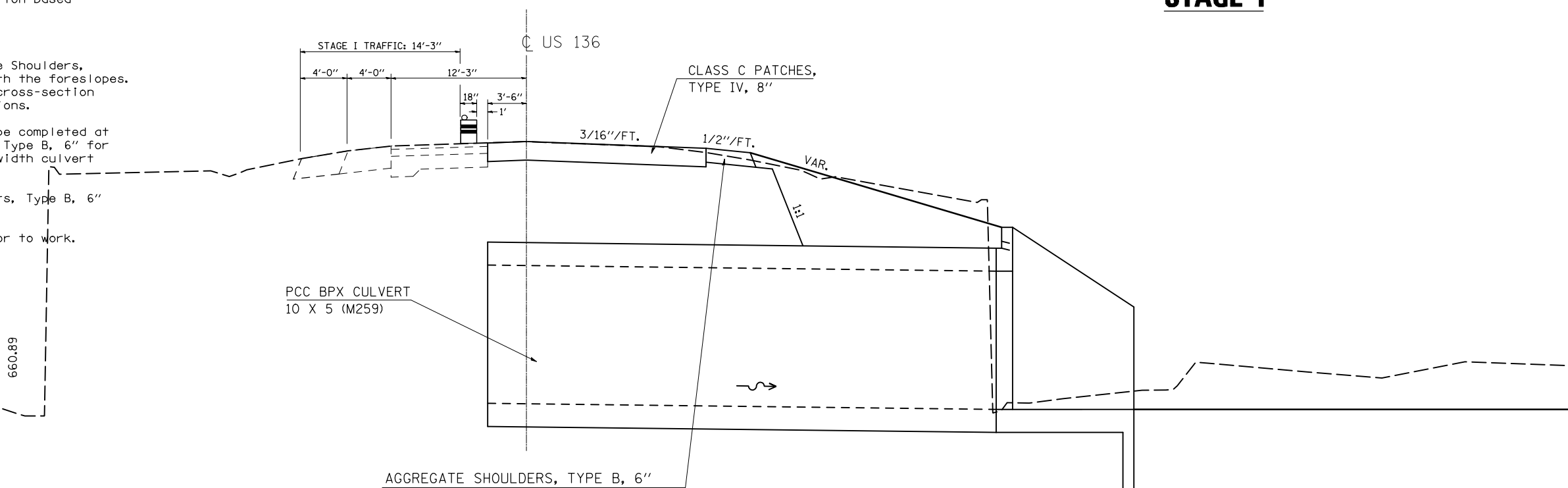
**Design Scour Elevation Table**

Design Scour Elevation (ft.)	Upstream	Downstream
	661.53	661.12

NOTES

1. Refer to Special Provisions for TRAFFIC CONTROL AND PROTECTION, STANDARD 701206 and STAGE CONSTRUCTION ACROSS ROAD STRUCTURES for additional information.
2. The Engineer may reduce or eliminate lengths or locations of Aggregate Shoulders, Type B, 6" and Earth Excavation based on field conditions.
3. Construct downstream end of A.R. culvert first.
4. Earth excavated for the construction of Aggregate Shoulders, Type B, 6" shall be deposited and graded to smooth the foreslopes. This excavated earth will be added to the final cross-section volumes for the Earthwork Balance/Waste calculations.
5. Aggregate Shoulders, Type B, 6" for stage I may be completed at any time prior to stage I. Aggregate Shoulders, Type B, 6" for stage II should not be completed until the half-width culvert from stage I has been constructed.
6. Replace previously constructed Aggregate Shoulders, Type B, 6" as needed when construction is completed.
7. CMS boards shall be placed 3 days in advance prior to work.

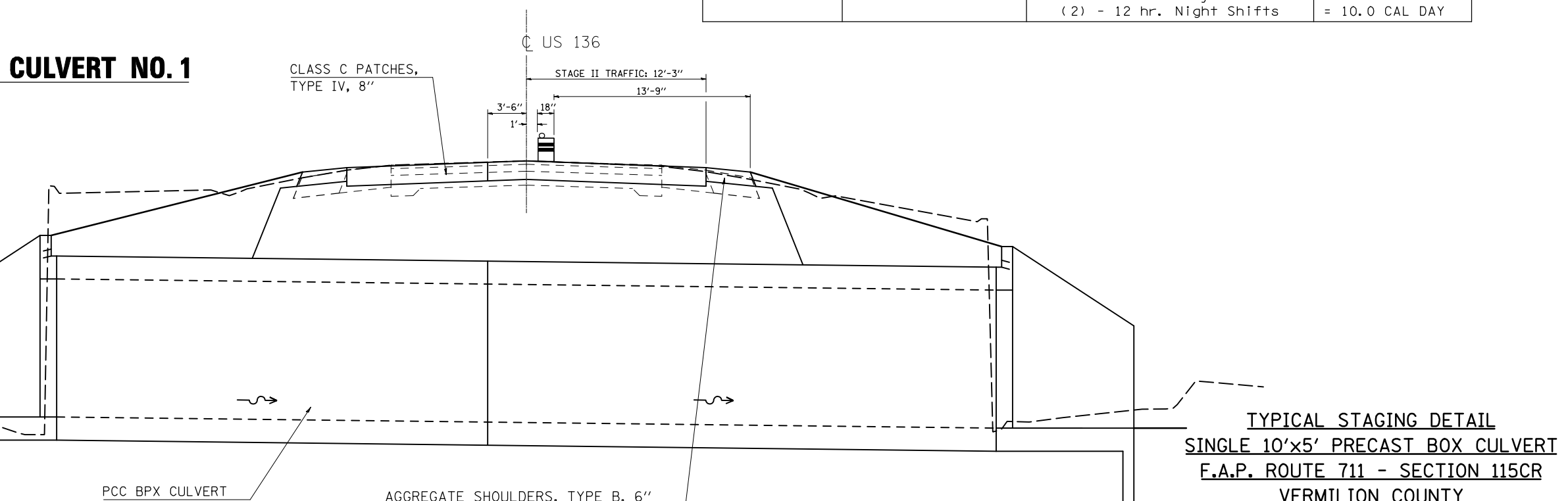
**TYPICAL STAGING DETAILS CULVERT NO. 1**  
**STAGE I**



DRAWING NOT TO SCALE

A. R. CULVERT LOCATION	TRAFFIC CONTROL STANDARD	ESTIMATED TIME	CHANGEABLE MESSAGE SIGNS
STA. 172+33.00	701206	2 Days - 48 hrs. - Non-Stop (2) - 12 hr. Day Shifts (2) - 12 hr. Night Shifts	2 EACH AT 5.0 CAL DAY = 10.0 CAL DAY

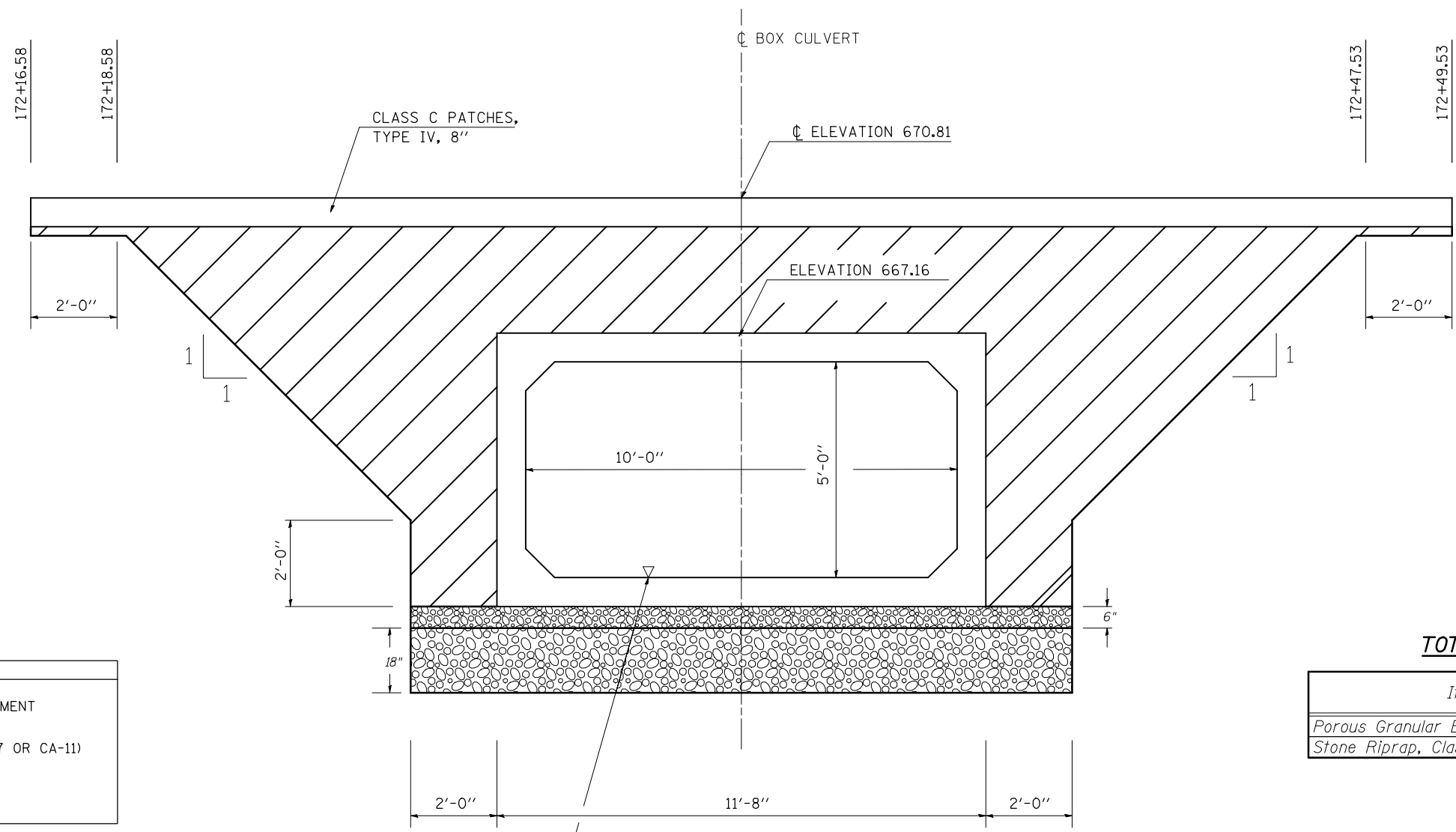
**TYPICAL STAGING DETAILS CULVERT NO. 1**  
**STAGE II**



DRAWING NOT TO SCALE

TYPICAL STAGING DETAIL  
SINGLE 10'x5' PRECAST BOX CULVERT  
F.A.P. ROUTE 711 - SECTION 115CR  
VERMILION COUNTY  
STATION 172+31.00, S.N. 092-8086  
CULVERT NO. 1

FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL STAGING DETAILS CULVERT NO. 1</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pwork\pwork\shererjm\0189007\0570617-sht-Details.dgn		DRAWN - JMS	REVISED -		711	115CR	VERMILION	39	14			
PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT			CONTRACT NO. 70617				
PLOT DATE = 11/16/2010		DATE - 062910	REVISED -		SCALE: N/A	SHEET NO. 4 OF 8 SHEETS	STA.	TO STA.				



DRAWING NOT TO SCALE.

LEGEND	
	POROUS GRANULAR EMBANKMENT
	POROUS GRAN. MTRL. (CA-7 OR CA-11)
	STONE RIPRAP, CLASS A1

**TOTAL BILL OF MATERIAL**

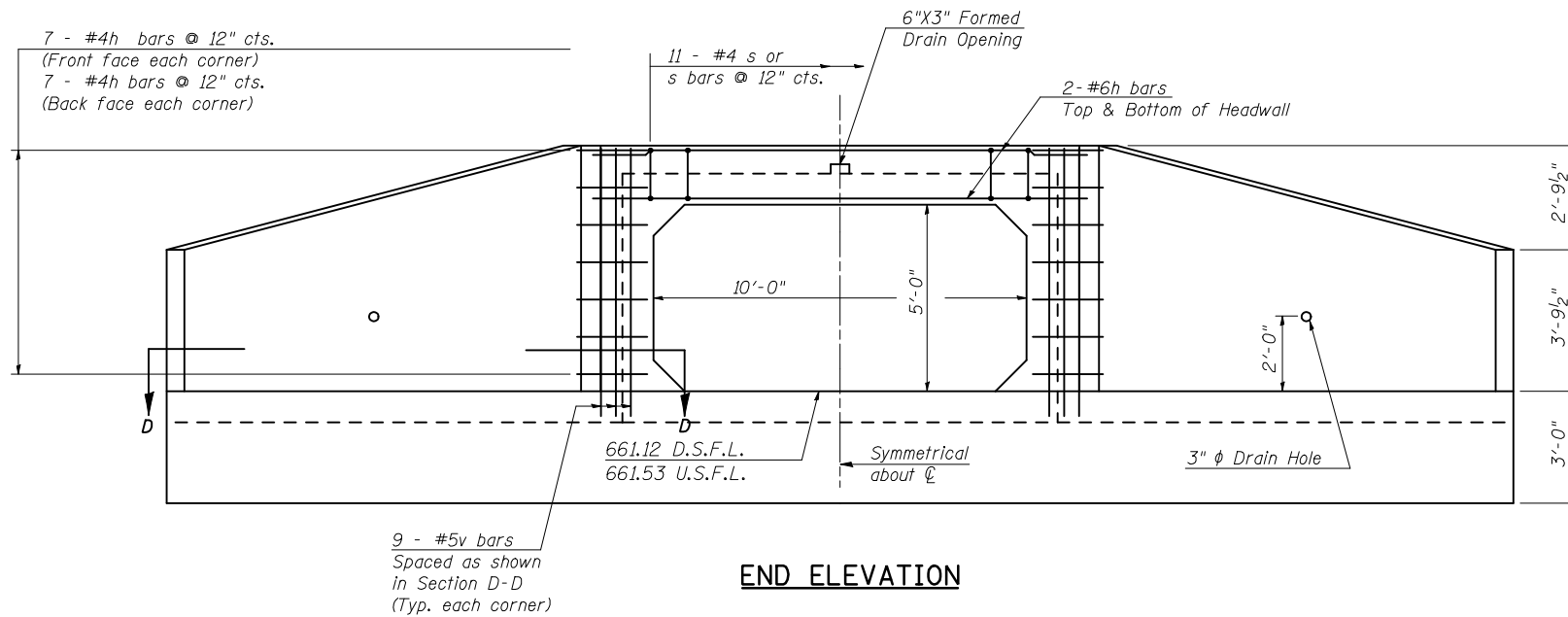
Item	Unit	Total
Porous Granular Embankment	Cu.Yd.	165.0
Stone Riprap, Class A1	Sq.Yd.	252.0

**DETAIL NOTE(S):**

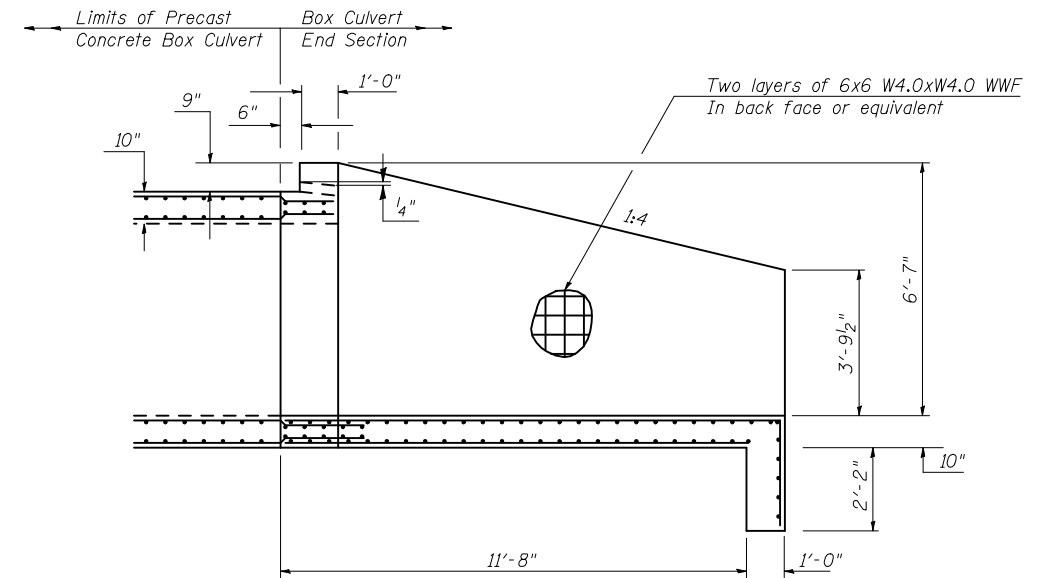
- ① Porous Granular Embankment shall extend 2 ft. beyond the aggregate shoulder.
- ② Work shown in detail shall be done according to the applicable portions of article 209 and article 540 of the Standard Specifications.
- ③ This work shall be paid for at the contract unit price per cubic yard for POROUS GRANULAR EMBANKMENT.
- ④ The area to be excavated for the proposed box culvert shall not be measured for payment. The cost shall be considered as included in the cost of the precast concrete box culverts and box culvert end sections.
- ⑤ STONE RIPRAP, CLASS A1 SHALL BE USED WHERE A.R. CULVERTS ARE REQUIRED TO BE UNDERCUT DUE TO UNSTABLE SOIL CONDITIONS.
- ⑥ WORK SHOWN IN THE DETAIL SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 281 AND SECTION 282 OF THE STANDARD SPECIFICATIONS.
- ⑦ THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR STONE RIPRAP, CLASS A1. FILTER FABRIS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED WITH THE PAY ITEM FOR STONE RIPRAP, CLASS A1.
- ⑧ THE EXCAVATION AND REMOVAL OF THE UNSUITABLE MATERIAL UNDER THE STRUCTURE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED WITH THE PAY ITEM FOR STONE RIPRAP, CLASS A1.

**POROUS GRANULAR EMBANKMENT DETAIL  
SINGLE 10'x5' PRECAST BOX CULVERT  
F.A.P. ROUTE 711 - SECTION 115CR  
VERMILION COUNTY  
STATION 172+31.00, S.N. 092-8086  
CULVERT NO. 1**

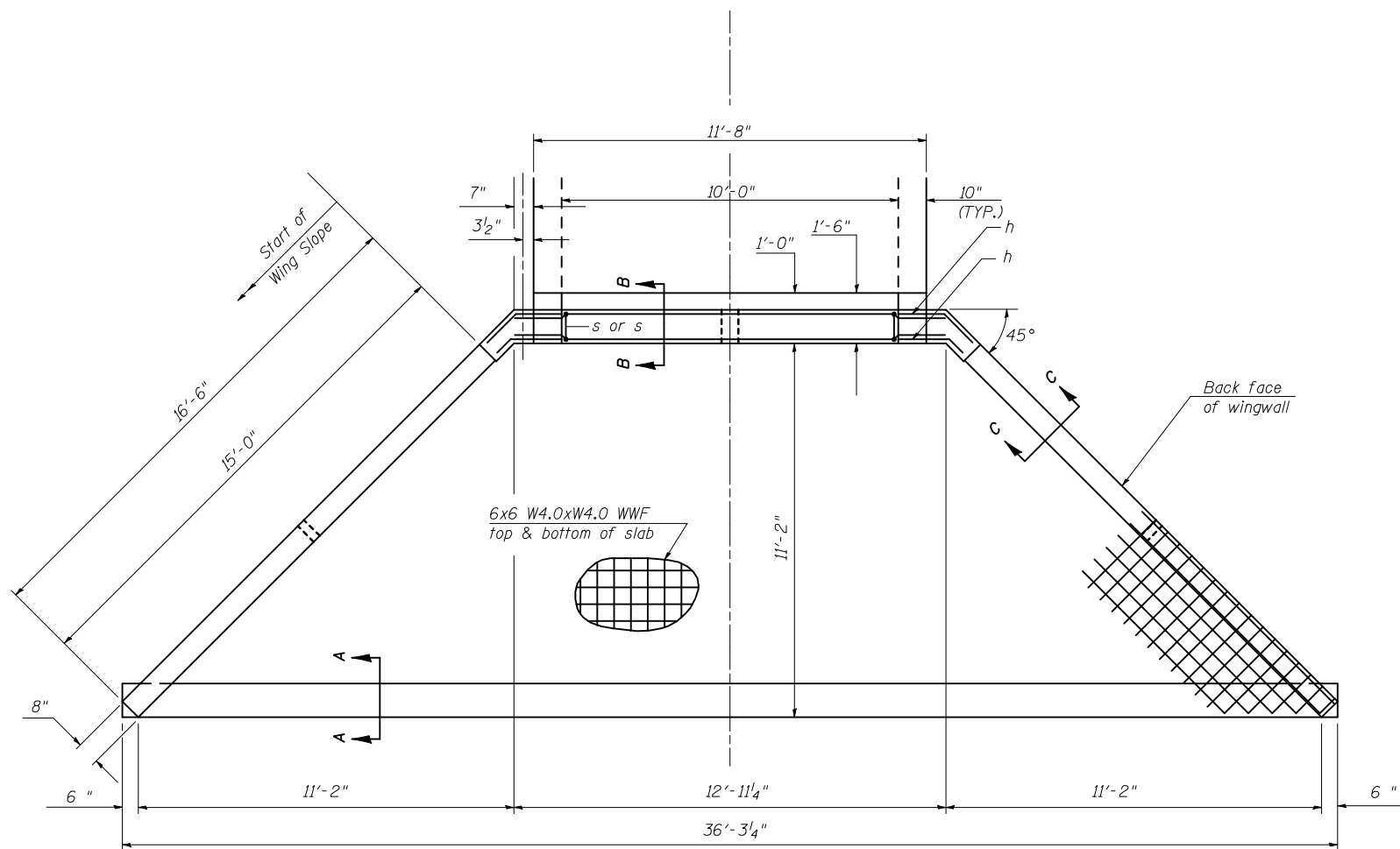
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PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 70617									
PLOT DATE = 11/16/2010	DATE - 031210	REVISED -	SCALE: N/A		SHEET NO. 5 OF 8 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				



**END ELEVATION**



**HALFSIDE ELEVATION**



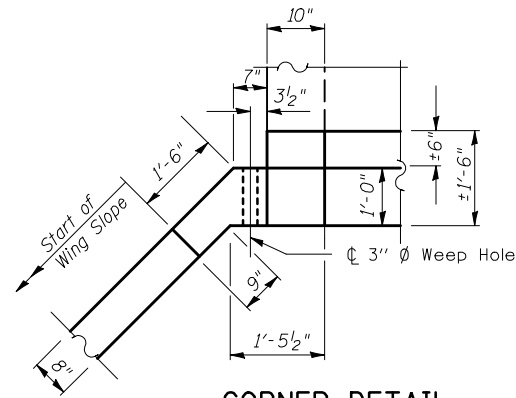
**PLAN**

**BILL OF MATERIAL**

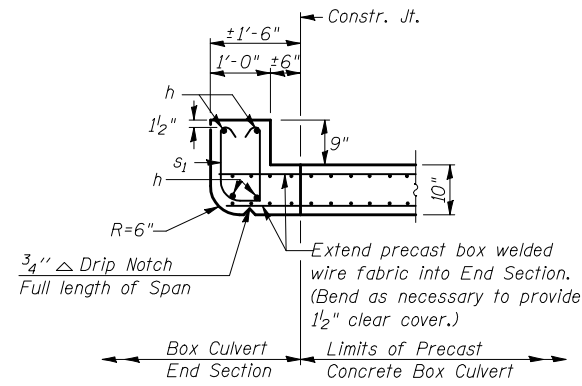
For Information Only  
(One End Section)

Bar	No.	Size	Length	Shape
h	4	#6	12'-7"	—
h <sub>1</sub>	10	#4	2'-7"	—
h <sub>2</sub>	10	#4	2'-4"	—
s or s <sub>1</sub>	9	#4	4'-2"	U U
v	18	#5	7'-2"	—
Item	Unit	Total		
Concrete Box Culverts	Cu. Yd.	18.0		
Reinforcement Bars	Pound	269.0		
Welded Wire Fabric	Sq. Ft.	1045.0		

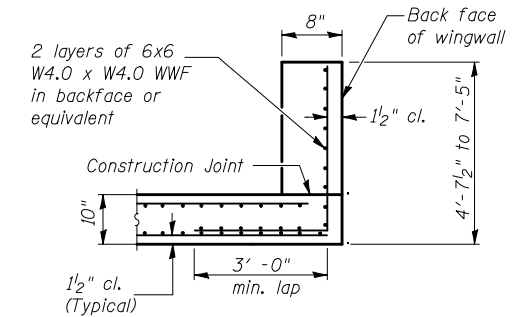
**END SECTION DETAILS**  
**SINGLE 10'x5' PRECAST BOX CULVERT**  
**F.A.P. ROUTE 711 - SECTION 115CR**  
**VERMILION COUNTY**  
**STATION 172+31.00, S.N. 092-8086**  
**CULVERT NO. 1**



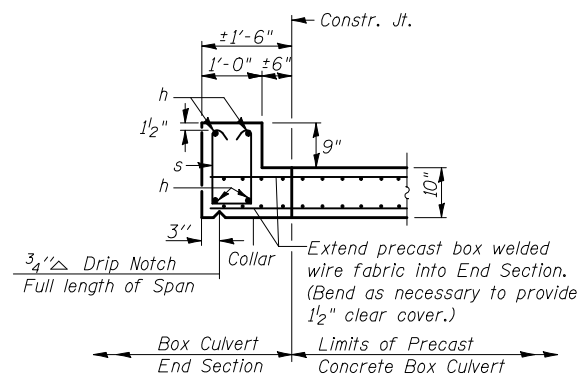
**CORNER DETAIL**  
(Showing dimensions and weep hole)



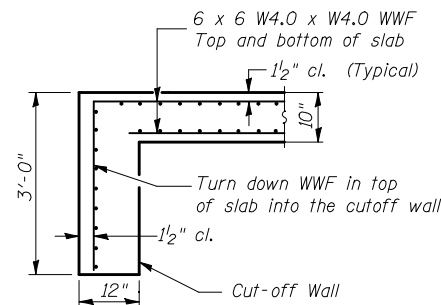
**SECTION F-F**  
TOP SLAB / HEADWALL UPSTREAM END



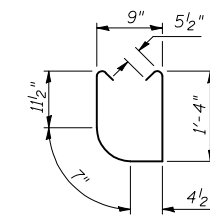
**SECTION C-C**  
WINGWALLS



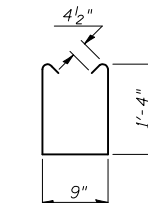
**SECTION F-F**  
TOP SLAB / HEADWALL DOWNSTREAM END



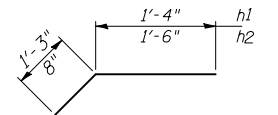
**SECTION A-A**  
DOWNSTREAM END



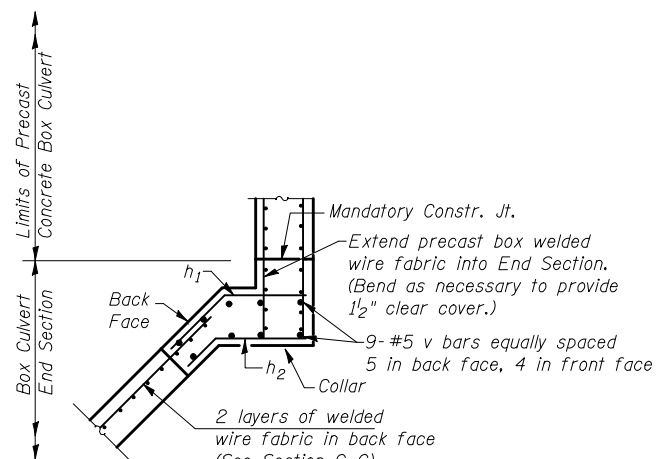
**s1 BARS**  
UPSTREAM END



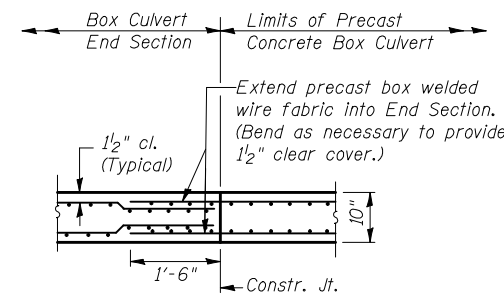
**s BARS**  
DOWNSTREAM END



**h1 & h2 BARS**



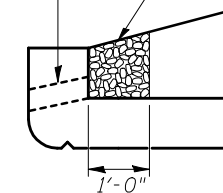
**SECTION D-D**  
(Showing reinforcement)



**SECTION B-B**  
BOTTOM SLAB

Coarse aggregate full length of both headwalls. To be placed by Grading Contractor. Cost included with Box Culvert End Sections.

6" x 3" Formed Opening



**DRAIN DETAIL**

**END SECTION DETAILS**  
**SINGLE 10'x5' PRECAST BOX CULVERT**  
**F.A.P. ROUTE 711 - SECTION 115CR**  
**VERMILION COUNTY**  
**STATION 172+33.00, S.N. 092-8086**  
**CULVERT NO. 1**

FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -
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	PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 11/16/2010	DATE - 031210	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

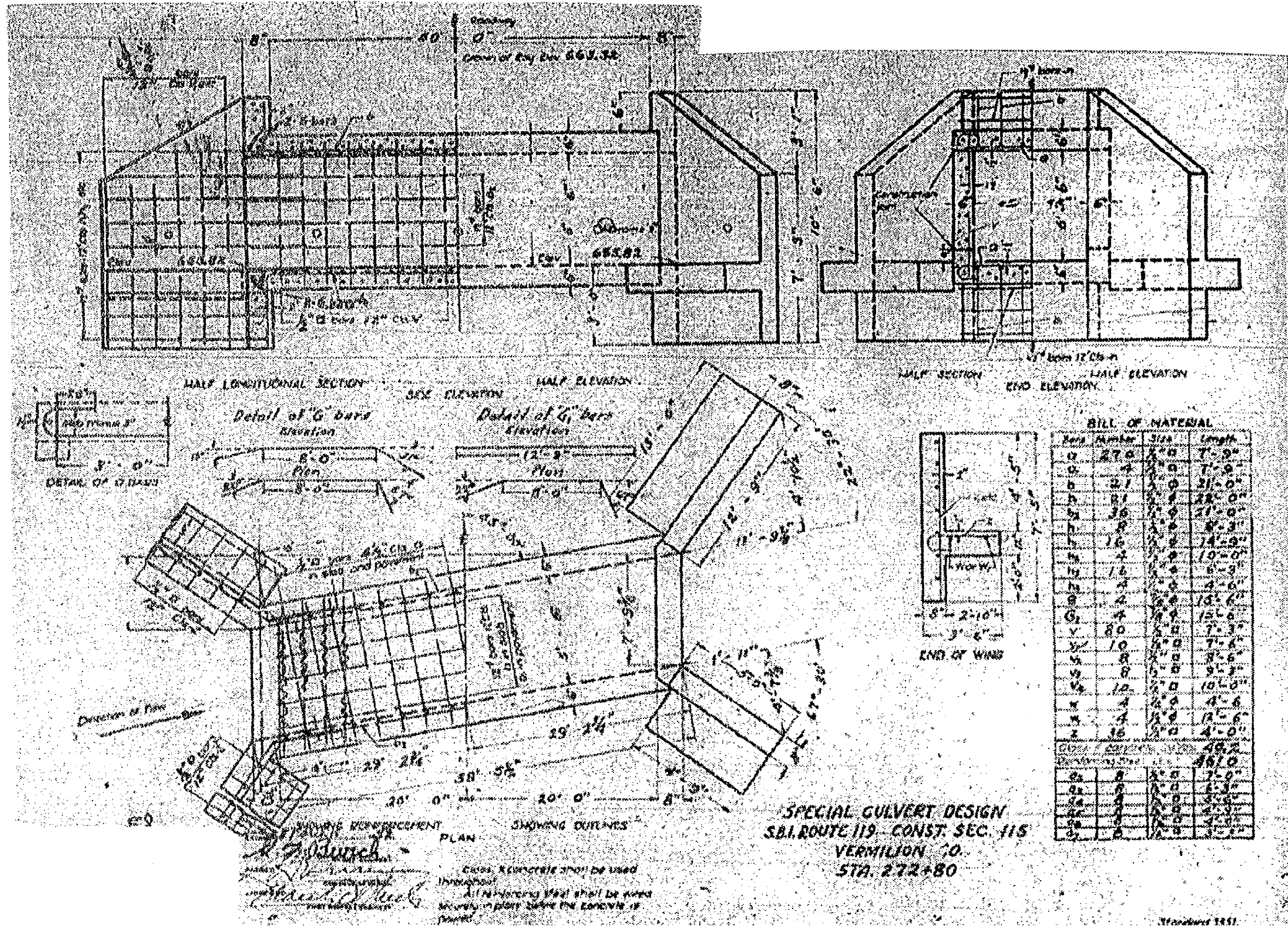
<b>BOX CULVERT END SECTION DETAILS</b>			
<b>CULVERT NO. 1</b>			
SCALE: N/A	SHEET NO. 7 OF 8 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
711	115CR	VERMILION	39	17
CONTRACT NO. 70617			ILLINOIS FED. AID PROJECT	









FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -
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		CHECKED -	REVISED -
		DATE - 031210	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

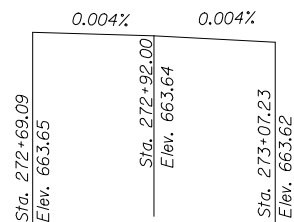
EXISTING S.N. 092-8032  
 (INFORMATION ONLY)

SCALE: N/A SHEET NO. 2 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
711	115CR	VERMILION	39	20
CONTRACT NO. 70617				
ILLINOIS FED. AID PROJECT				



EXISTING STRUCTURE: S.N. 092-8032 was constructed in 1934 at STA. 272+79 as a 5.5' X 6.5' cast-in-place box culvert with a skew = 45° concrete headwalls as S.B.I. 119, Sec. 115 in Vermilion County. The existing structure is to be completely removed and replaced. There will be no salvage of any materials. Stage Construction will be utilized. BENCHMARK ELEV. = 663.22 Chiseled "X" on top of North Headwall of ARBC at STA.274+88.65, 20.61' LT.



**PROFILE GRADE**

Along  $\phi$  Roadway

STATION 272+92.00  
BUILT 201\_ BY  
STATE OF ILLINOIS  
F.A.P. RT. 711 SEC. 115CR  
LOADING HS 20  
STRUCTURE NO. 092-8087

**NAME PLATE**

See Std. 515001

**INDEX OF SHEETS**

1. Plan & Profile
2. As Built Plan
3. Porous Granular Embankment Detail
4. General Plan and Elevation
5. Box Culvert End Section Details

**DESIGN SPECIFICATIONS**

2002 AASHTO

**LOADING HS20-44**

Allow 50#/sq.ft. for future wearing surface

**DESIGN STRESSES**

FIELD UNITS

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)  
 $f_y = 65,000$  psi (welded wire fabric)

PRECAST UNITS

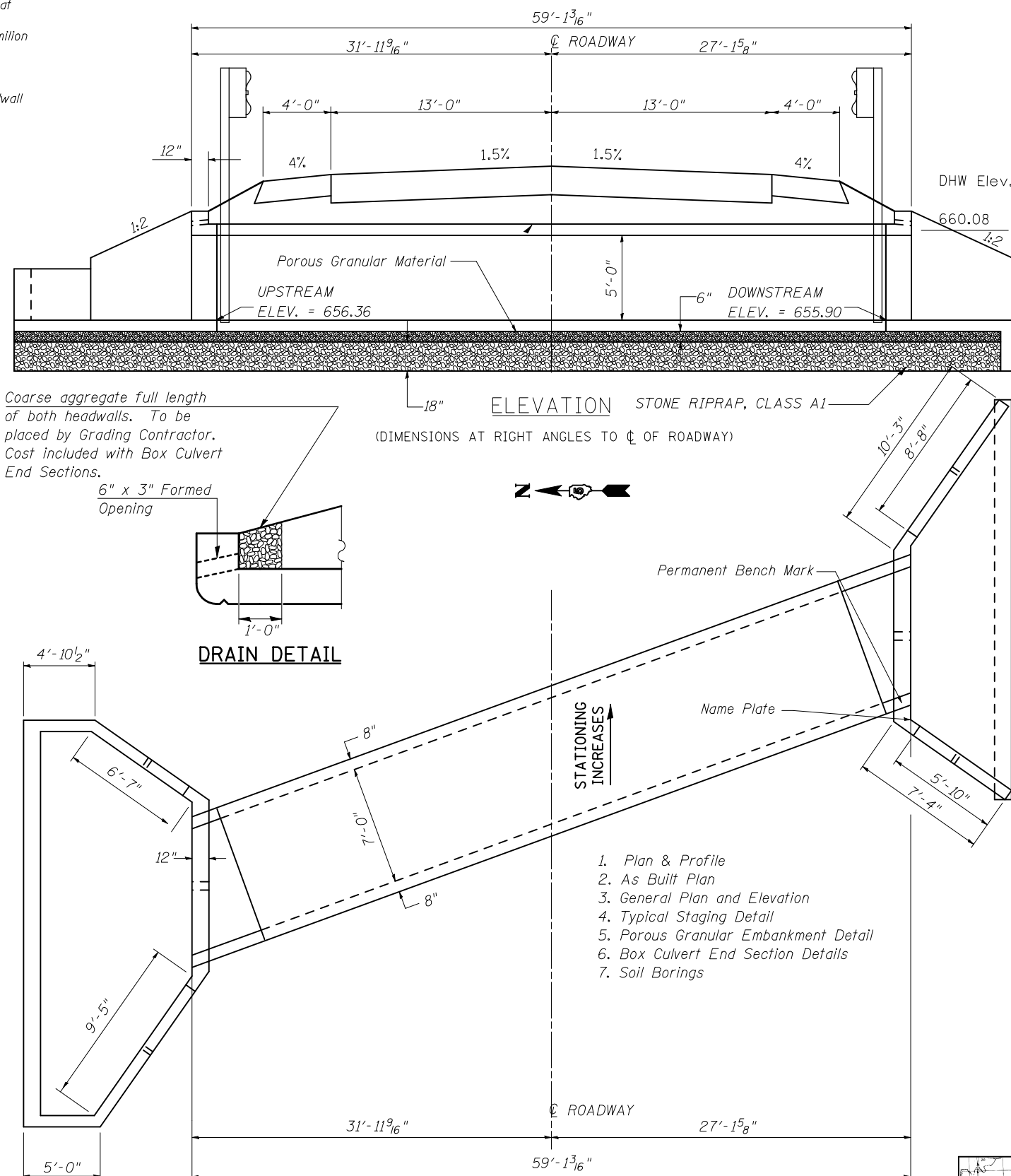
$f'_c = 5,000$  psi  
 $f_y = 65,000$  psi (welded wire fabric)

**WATERWAY INFORMATION**

Drainage Area = 0.110 sq. mi. Low Grade Elev. 663.45 @ Sta. 274+50

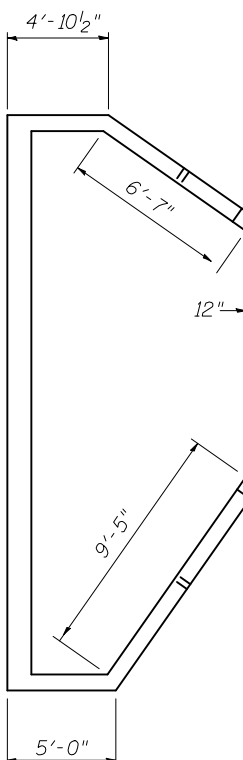
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	79	24	25			659.45	659.43	
Base	50	134	33	30			660.18	660.08	
Overtopping	100	159	30	32			660.53	660.40	
Max. Calc.	500	222	35	34			661.40	661.24	

Note: Information provided using the Regression Method.



Coarse aggregate full length of both headwalls. To be placed by Grading Contractor. Cost included with Box Culvert End Sections.

**DRAIN DETAIL**



1. Plan & Profile
2. As Built Plan
3. General Plan and Elevation
4. Typical Staging Detail
5. Porous Granular Embankment Detail
6. Box Culvert End Section Details
7. Soil Borings

**Design Scour Elevation Table**

Design Scour Elevation (ft.)	Upstream	Downstream
	656.36	655.90

**General Notes**

Build tops of headwalls parallel to the grade lines.

All construction joints shall be bonded according to Article 503.09 of the Standard Specifications.

Reinforcement bars shall conform to the requirements of ASTM A706 Gr. (IL Modified). See Special Provisions.

All bars should be rounded and conform to the requirements of Article 1006.10 of the Standard Specification.

The 6" Porous Granular Material required per Art. 540.06 of the Standard Specifications shall also extend beneath the Box Culvert End Sections and shall be considered included in the cost of Precast Concrete Box Culverts and Box Culvert End Sections.

When lapping sheets of welded wire fabric, the overlap measured between the outermost cross wires of each fabric sheet shall not be less than 8"

End Sections will be paid for at the contract unit price per each for BOX CULVERT END SECTIONS, as outlined in Section 540 of the Standard Specifications.

Class SI Concrete shall be used throughout.

Concrete, Rebar, and Welded Wire Fabric quantities and lengths calculated for the cast-in-place End Sections may vary based on the precast box culverts supplied.

Drain holes shall be provided in accordance with Article 503.11 of the Standard Specifications.

The precast manufacturer shall design a detail a connection/construction joint between the precast concrete box sections and the cast-in-place apron and wingwall. The minimum area of reinforcement passing through these construction joints shall be 0.20 sq. in./lineal ft. of welded wire fabric. The design shall be detailed in the shop drawings. The cost of the connection is included in the cost of the end section.

The box culvert end section may be built in the field or using precast construction methods. If the contractor elects to use precast construction methods, shop drawings and a proposed construction sequence shall be submitted to the Engineer for approval. See Special Provisions.

The ends of the precast box sections adjacent to the end section shall be formed without the male and female shapes specified in Article 8.1 of AASHTO M273. See Sections B-B, D-D, E-E, and F-F on Sheet 5.

The design fill height for this box is less than 2 feet. The Precast Concrete Box Culvert Sections shall conform to the requirements of AASHTO M 273.

The joints between precast box sections shall be sealed, all voids filled with a mastic joint sealer. In addition, the joints shall be externally sealed on all four sides with a 13 inch wide external sealing band. The seal shall be centered over the joint, secured in place and protected during the backfilling process.

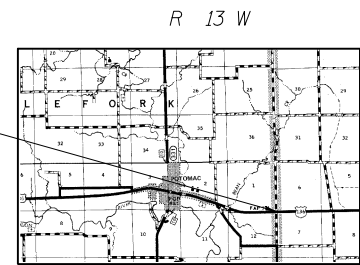
All dimensions are in FEET (') - INCHES (") unless otherwise noted.

Drawings not to scale.

**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Removal of Existing Structures No. 2	Each	1.0
Precast Concrete Box Culvert 7'x5'(M273)	Foot	40.0
Box Culvert End Section, Culvert No. 2	Each	2.0
Name Plates	Each	1.0
Permanent Bench Marks	Each	1.0
Porous Granular Embankment	Cu.Yd.	209.0
Stone Riprap, Class A1	Sq.Yd.	122.0

**GENERAL PLAN AND ELEVATION  
SINGLE 7'x5' PRECAST BOX CULVERT  
F.A.P. ROUTE 711 - SECTION 115CR  
VERMILION COUNTY  
STATION 272+92.00 S.N. 092-8087  
CULVERT NO. 2**



PROP. S.N. 092-8087  
STA. 272+92.00

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		CHECKED -	REVISED -
		DATE - 062910	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION  
PROPOSED CULVERT NO. 2, S.N. 092-8087**

SCALE: N/A SHEET NO. 3 OF 9 SHEETS STA. TO STA.

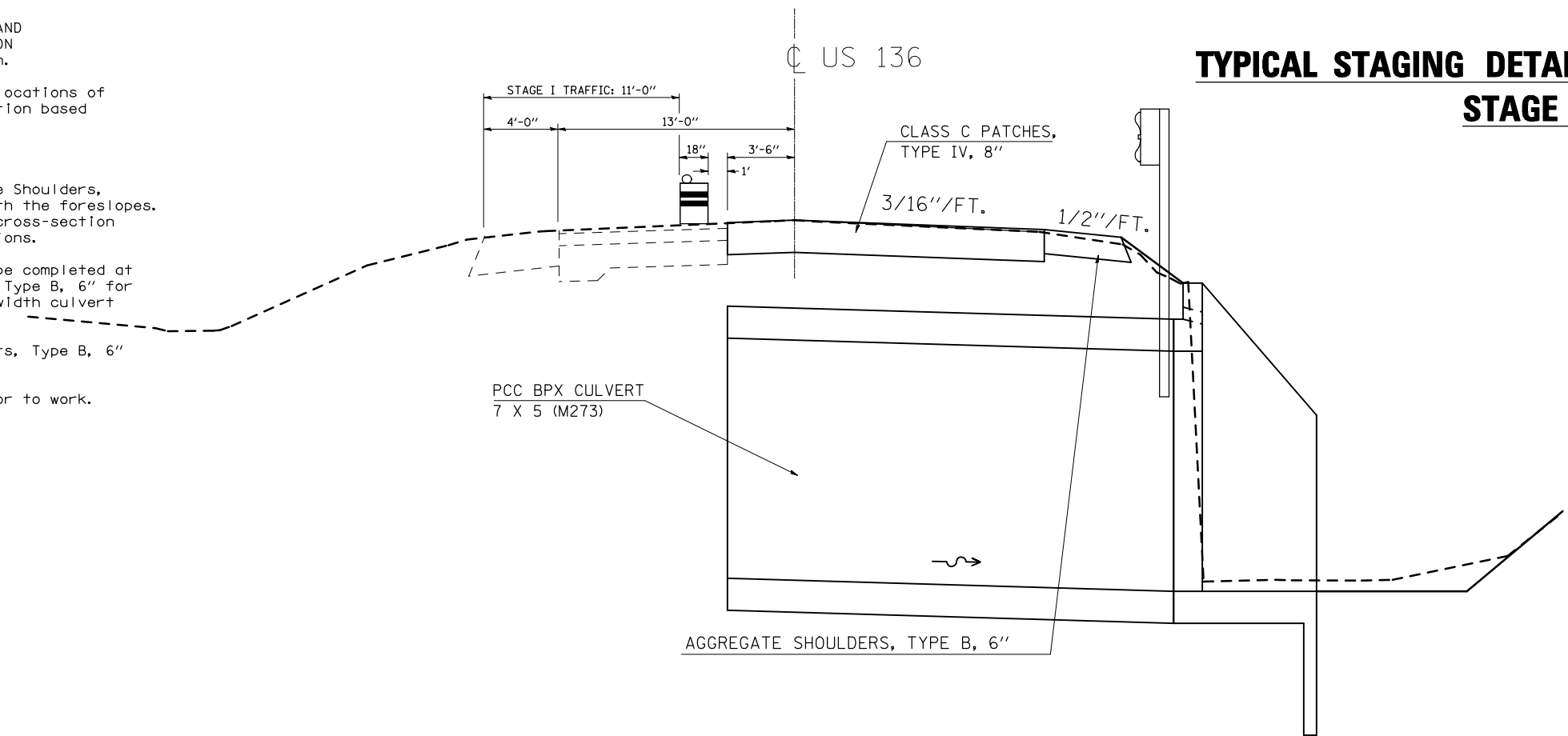
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
711	115CR	VERMILION	39	21
				CONTRACT NO. 70617

ILLINOIS FED. AID PROJECT

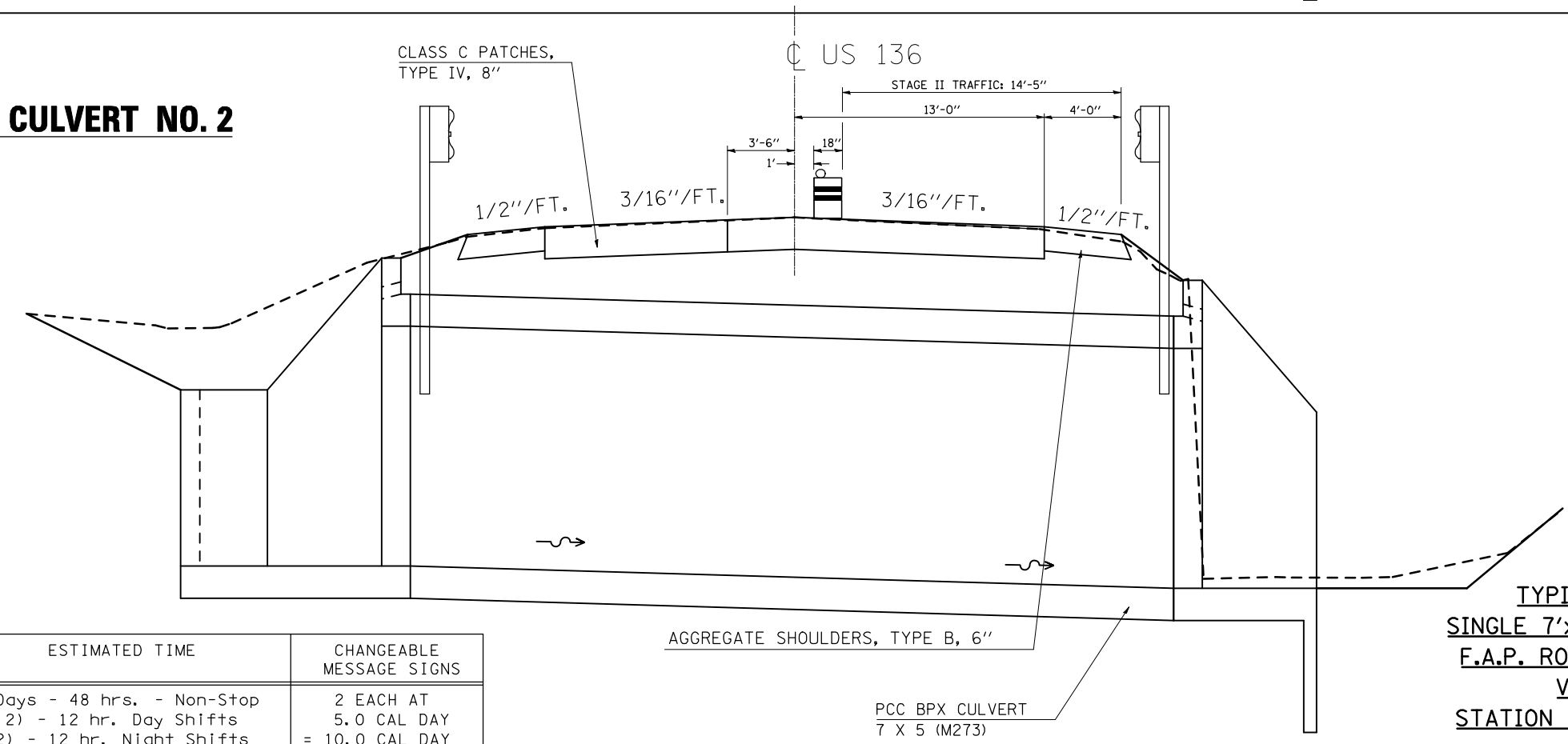
NOTES

1. Refer to Special Provisions for TRAFFIC CONTROL AND PROTECTION, STANDARD 701206 and STAGE CONSTRUCTION ACROSS ROAD STRUCTURES for additional information.
2. The Engineer may reduce or eliminate lengths or locations of Aggregate Shoulders, Type B, 6" and Earth Excavation based on field conditions.
3. Construct downstream end of A.R. culvert first.
4. Earth excavated for the construction of Aggregate Shoulders, Type B, 6" shall be deposited and graded to smooth the foreslopes. This excavated earth will be added to the final cross-section volumes for the Earthwork Balance/Waste calculations.
5. Aggregate Shoulders, Type B, 6" for stage I may be completed at any time prior to stage I. Aggregate Shoulders, Type B, 6" for stage II should not be completed until the half-width culvert from stage I has been constructed.
6. Replace previously constructed Aggregate Shoulders, Type B, 6" as needed when construction is completed.
7. CMS boards shall be placed 3 days in advance prior to work.

**TYPICAL STAGING DETAILS CULVERT NO. 2**  
**STAGE I**



**TYPICAL STAGING DETAILS CULVERT NO. 2**  
**STAGE II**



TYPICAL STAGING DETAIL  
SINGLE 7'x5' PRECAST BOX CULVERT  
F.A.P. ROUTE 711 - SECTION 115CR  
VERMILION COUNTY  
STATION 272+92.00, S.N. 092-8087  
CULVERT NO. 2

A. R. CULVERT LOCATION	TRAFFIC CONTROL STANDARD	ESTIMATED TIME	CHANGEABLE MESSAGE SIGNS
STA. 272+92.00	701206	2 Days - 48 hrs. - Non-Stop (2) - 12 hr. Day Shifts (2) - 12 hr. Night Shifts	2 EACH AT 5.0 CAL DAY = 10.0 CAL DAY

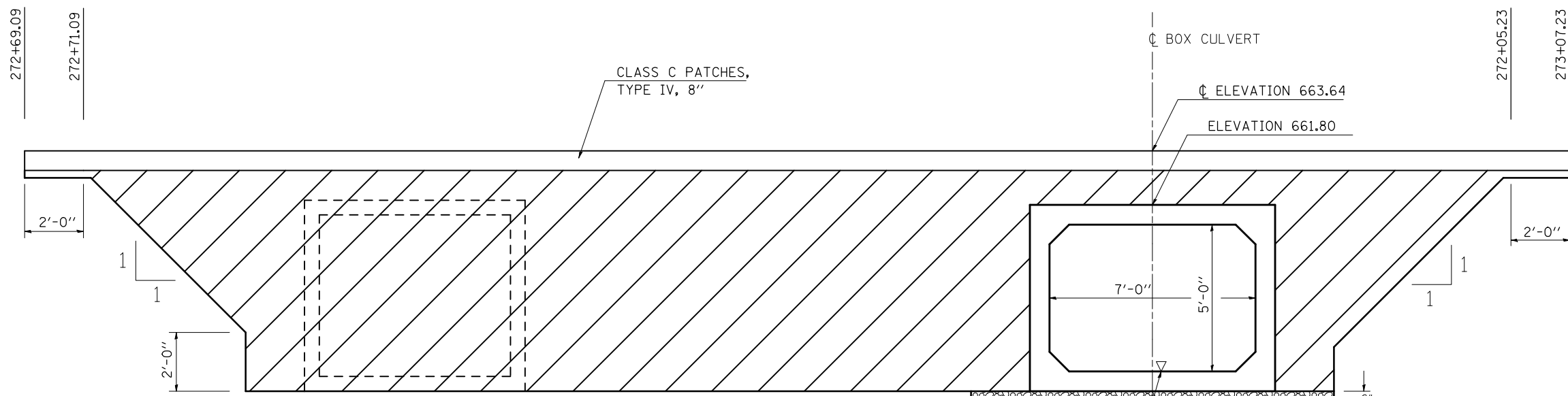
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	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 11/16/2010	DATE - 062910	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL STAGING DETAILS  
CULVERT NO. 2

SCALE: N/A SHEET NO. 4 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
711	115CR	VERMILION	39	22
			CONTRACT NO. 70617	
ILLINOIS FED. AID PROJECT				



DRAWING NOT TO SCALE.

LEGEND	
	POROUS GRANULAR EMBANKMENT
	POROUS GRAN. MTRL. (CA-7 OR CA-11)
	STONE RIPRAP, CLASS A1

PROPOSED U.S.F.L. = 656.36  
 PROPOSED D.S.F.L. = 655.90

**TOTAL BILL OF MATERIAL**

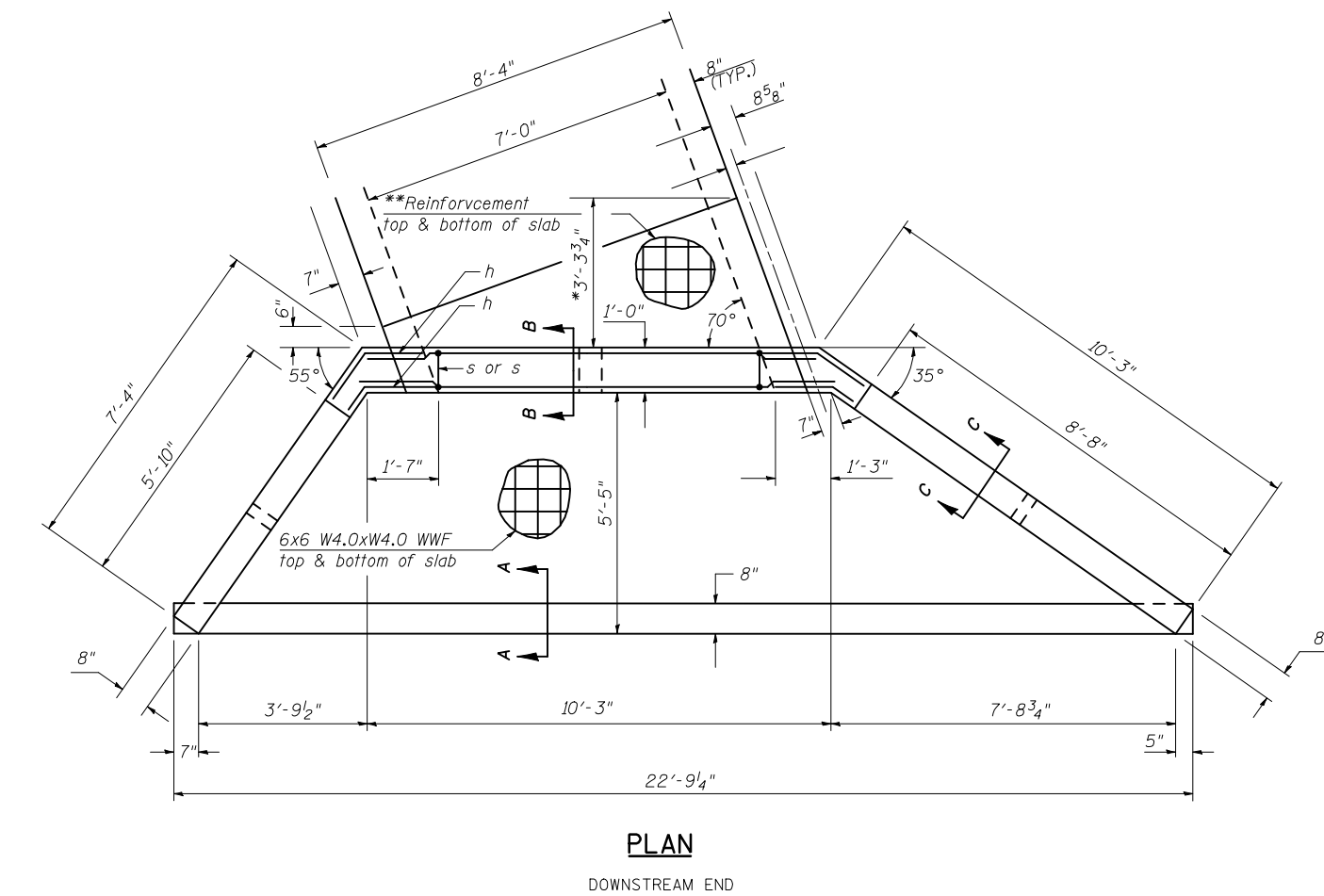
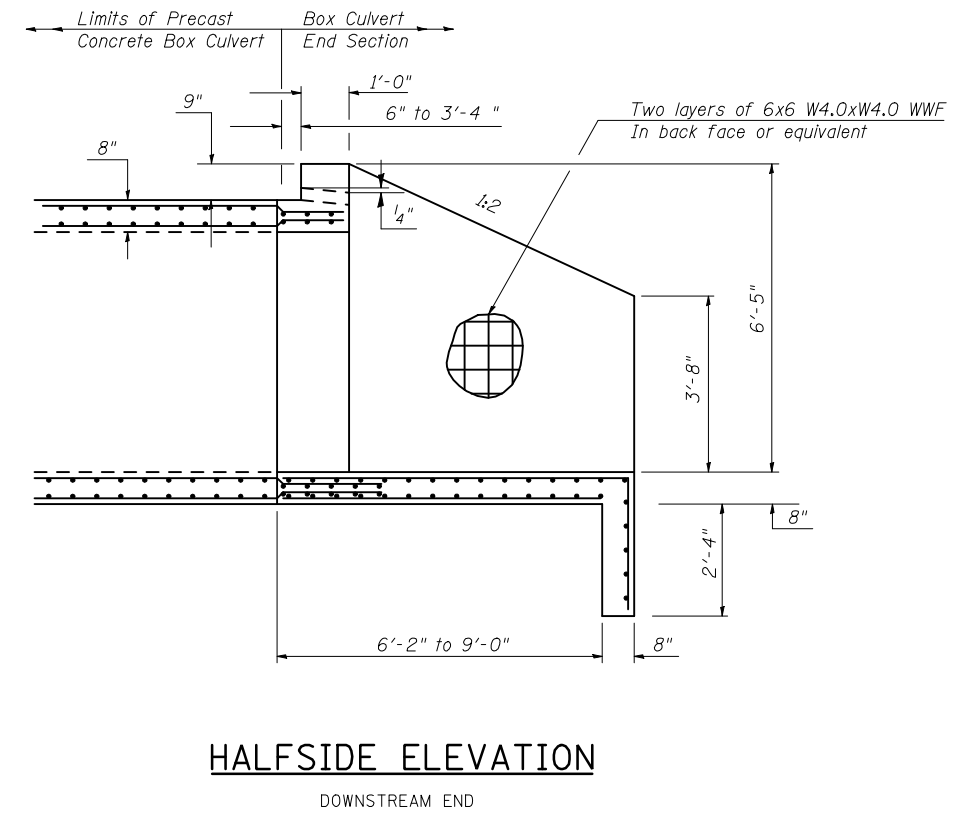
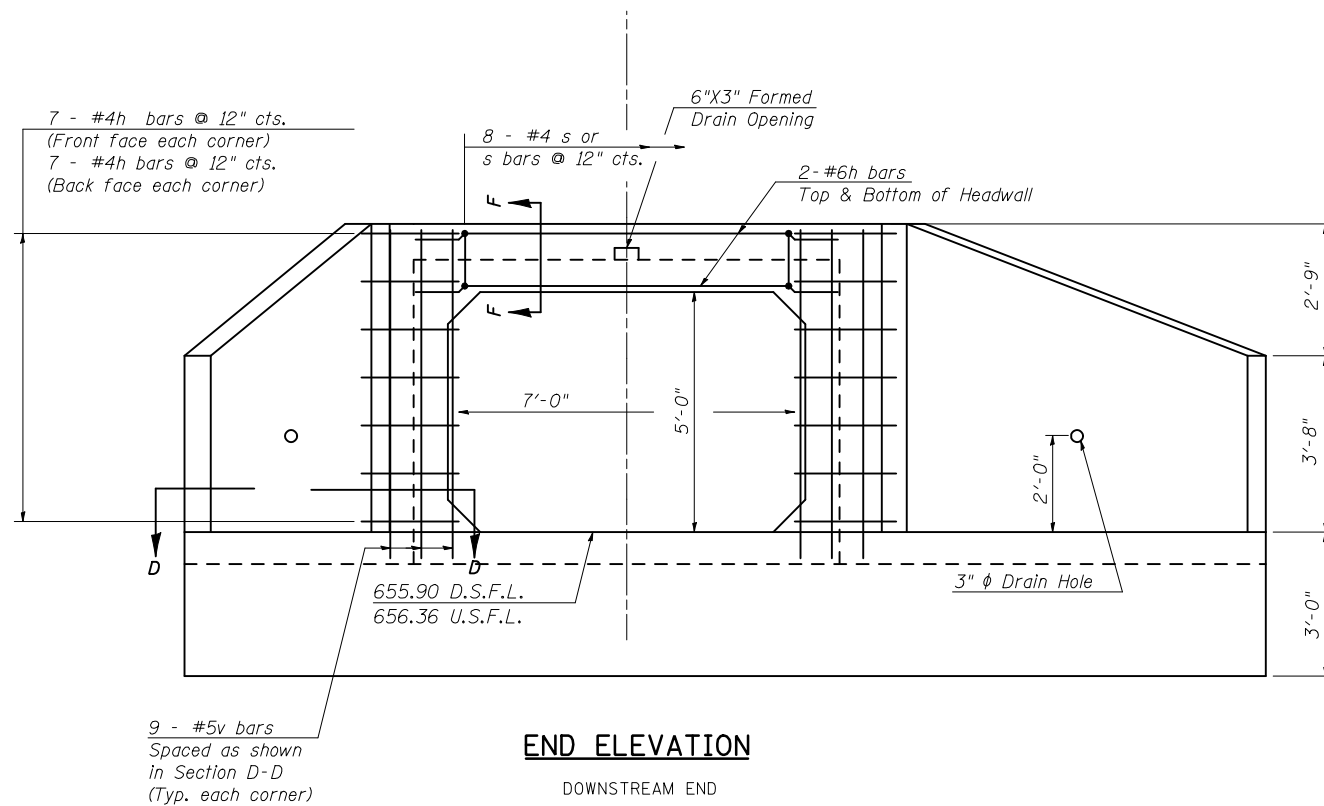
Item	Unit	Total
Porous Granular Embankment	Cu.Yd.	209.0
Stone Riprap, Class A1	Sq.Yd.	122.0

**DETAIL NOTE(S):**

- ① Porous Granular Embankment shall extend 2 ft. beyond the aggregate shoulder.
- ② Work shown in detail shall be done according to the applicable portions of article 209 and article 540 of the Standard Specifications.
- ③ This work shall be paid for at the contract unit price per cubic yard for POROUS GRANULAR EMBANKMENT.
- ④ The area to be excavated for the proposed box culvert shall not be measured for payment. The cost shall be considered as included in the cost of the precast concrete box culverts and box culvert end sections.
- ⑤ STONE RIPRAP, CLASS A1 SHALL BE USED WHERE A.R. CULVERTS ARE REQUIRED TO BE UNDERCUT DUE TO UNSTABLE SOIL CONDITIONS.
- ⑥ WORK SHOWN IN THE DETAIL SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 281 AND SECTION 282 OF THE STANDARD SPECIFICATIONS.
- ⑦ THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR STONE RIPRAP, CLASS A1. FILTER FABRIS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED WITH THE PAY ITEM FOR STONE RIPRAP, CLASS A1.
- ⑧ THE EXCAVATION AND REMOVAL OF THE UNSUITABLE MATERIAL UNDER THE STRUCTURE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED WITH THE PAY ITEM FOR STONE RIPRAP, CLASS A1.

**POROUS GRANULAR EMBANKMENT DETAIL  
 SINGLE 7'x5' PRECAST BOX CULVERT  
 F.A.P. ROUTE 711 - SECTION 115CR  
 VERMILION COUNTY  
 STATION 272+92.00, S.N. 092-8087  
 CULVERT NO. 2**

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PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISIED -	REVISIED -		SCALE: N/A	SHEET NO. 5 OF 9 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			
PLOT DATE = 11/16/2010	DATE - 031210	REVISIED -	REVISIED -									
CONTRACT NO. 70617												



**BILL OF MATERIAL (DOWNSTREAM END)**

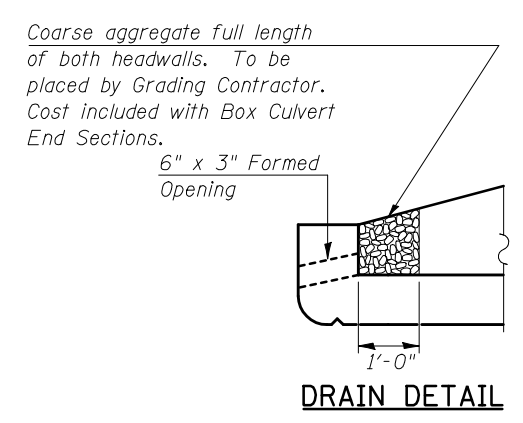
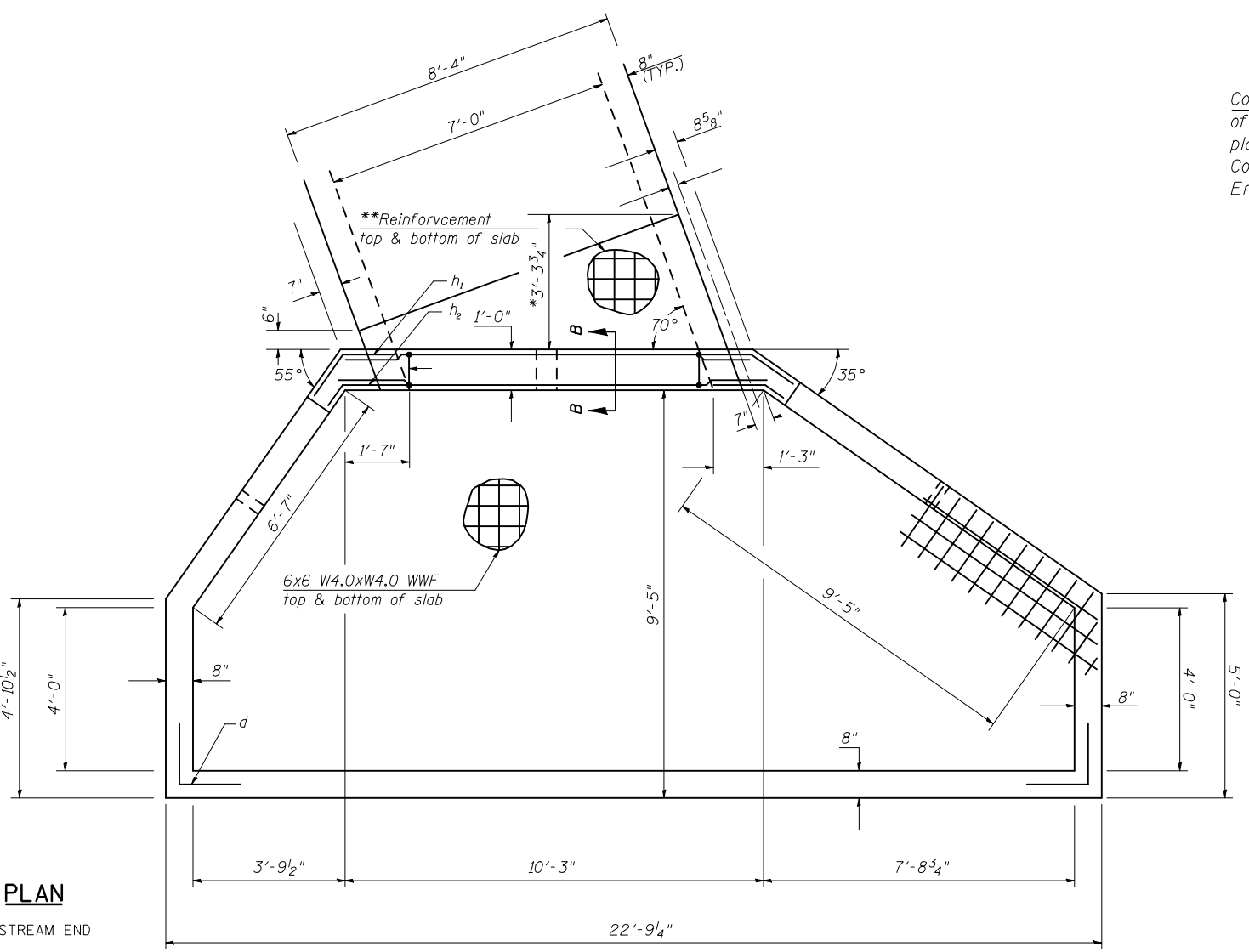
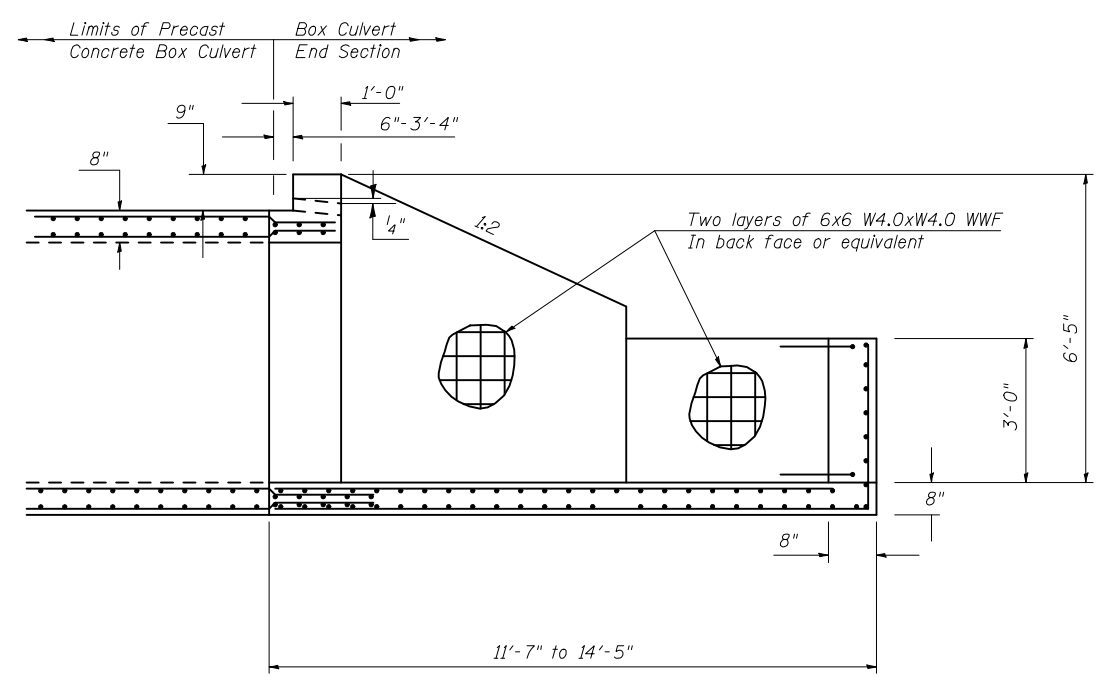
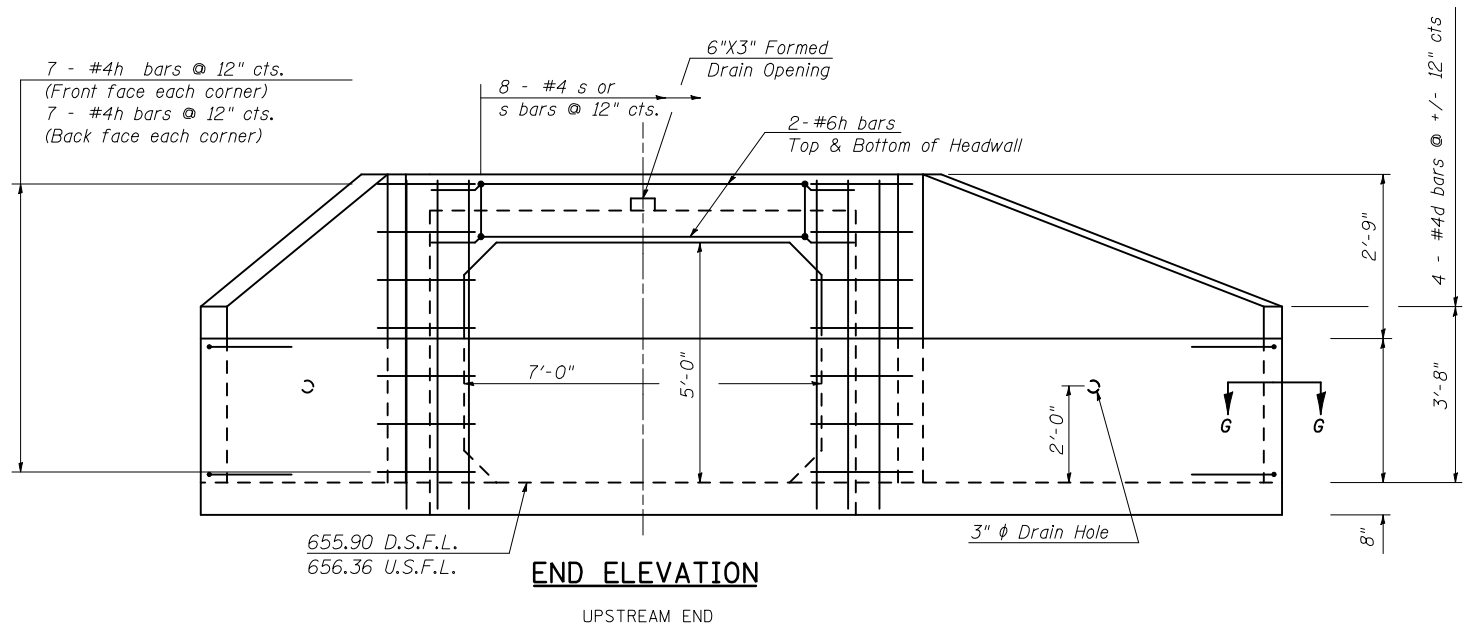
For Information Only  
(One End Section)

Bar	No.	Size	Length	Shape
h	4	#6	10'-1"	—
h <sub>1</sub>	10	#4	2'-7"	—
h <sub>2</sub>	10	#4	2'-2"	—
s or s <sub>1</sub>	9	#4	3'-10"	U U
v	18	#5	6'-10"	—
Item	Unit	Total		
Concrete Box Culverts	Cu. Yd.	9.0		
Reinforcement Bars	Pound	244.0		
Welded Wire Fabric	Sq. Ft.	1053.0		

\*Dimensions shall be increased by 3'-0" if the Contractor elects to use the precast option for the Box Culvert End Sections. See Special Provisions.

\*\*Area of reinforcement for the cast-in-place section of the box culvert shall be as required in AASHTO M 273 except A<sub>1</sub>, A<sub>2</sub>, and A<sub>3</sub> shall be increased to 0.62, 0.32, and 0.23. Spacing and laps of WWF shall be in accordance with AASHTO M 273 except as shown in Cast-In-Place Section of Box Culvert To Be Built In Field. If the Contractor elects to use reinforcement bars instead of WWF for cast-in-place section of box culvert, bars may consist of #3 thru #6 bars and the spacing shall not exceed the lesser of the wall thickness or 8".

**END SECTION DETAILS  
SINGLE 7'x5' PRECAST BOX CULVERT  
F.A.P. ROUTE 711 - SECTION 115CR  
VERMILION COUNTY  
STATION 272+92.00, S.N. 092-8087  
CULVERT NO. 2**



\*Dimensions shall be increased by 3'-0" if the Contractor elects to use the precast option for the Box Culvert End Sections. See Special Provisions.

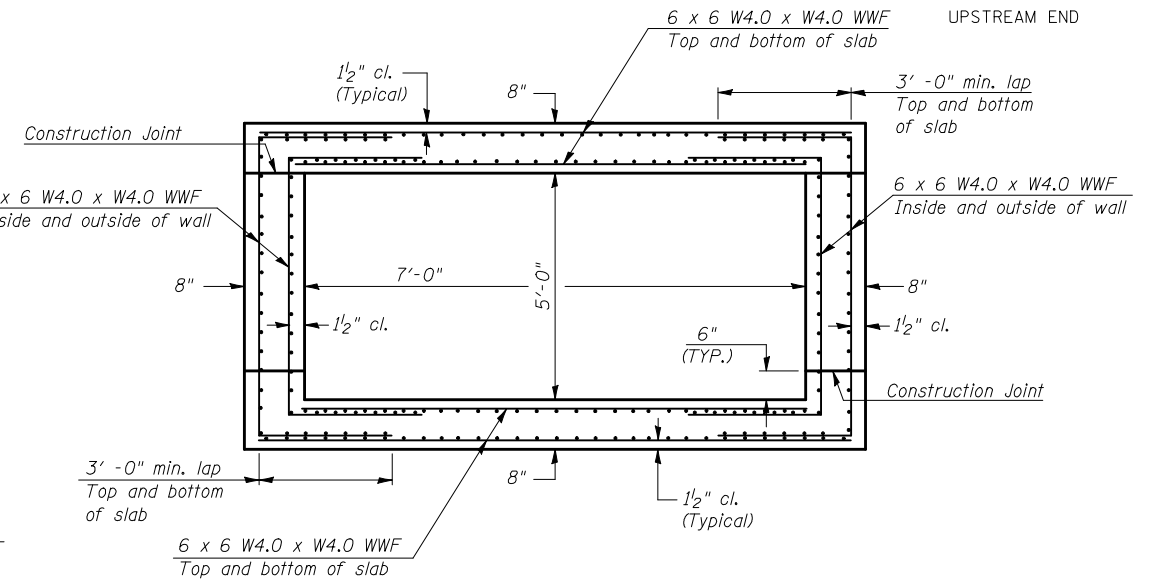
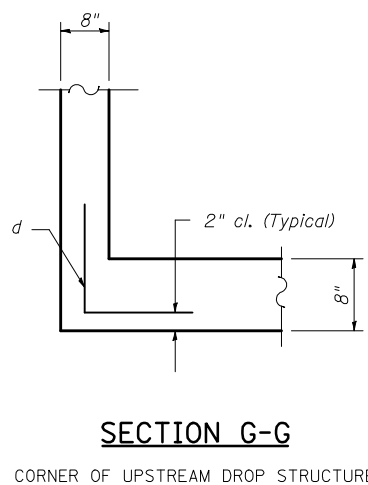
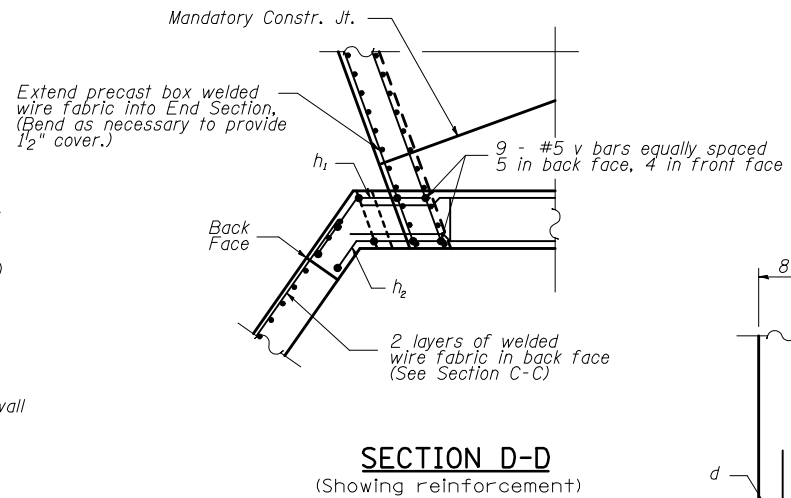
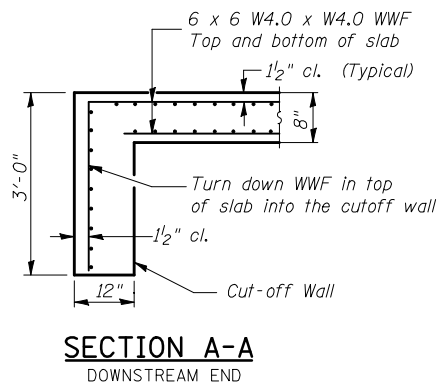
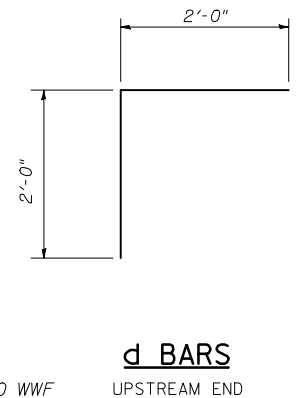
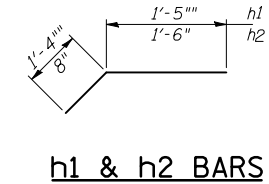
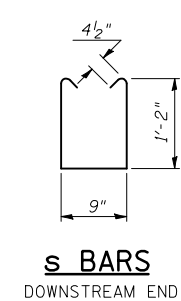
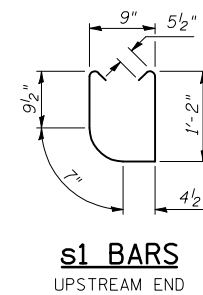
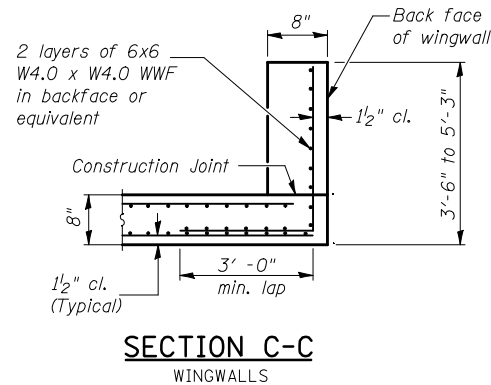
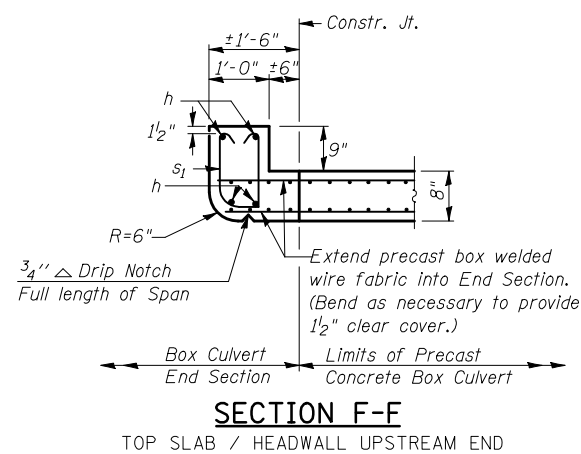
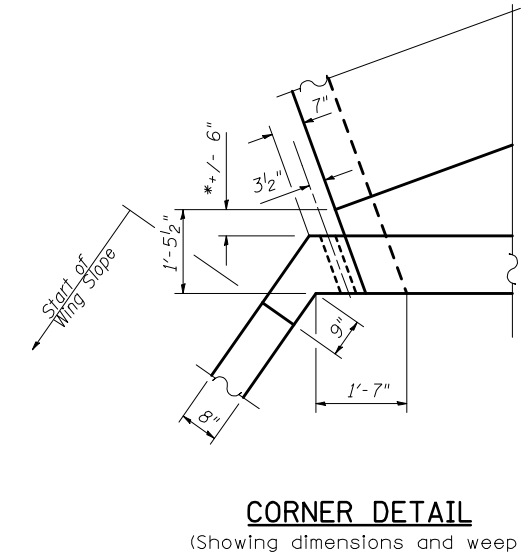
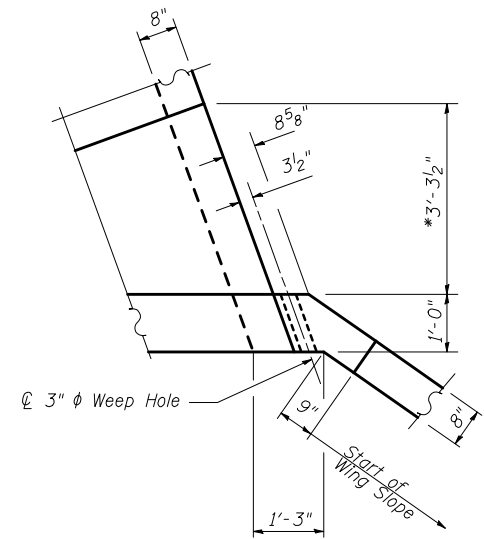
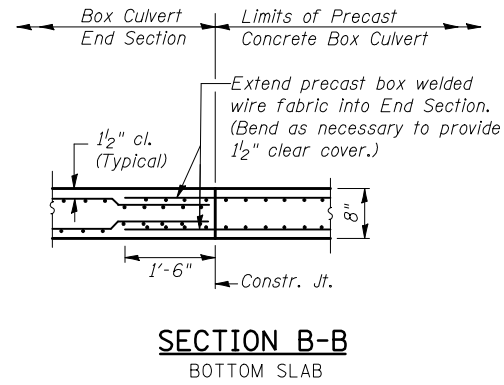
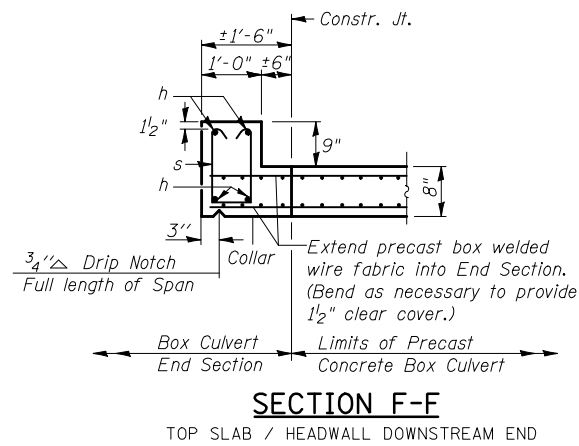
\*\*Area of reinforcement for the cast-in-place section of the box culvert shall be as required in AASHTO M 273 except A<sub>1</sub>, A<sub>2</sub>, and A<sub>3</sub> shall be increased to 0.62, 0.32, and 0.23. Spacing and laps of WWF shall be in accordance with AASHTO M 273 except as shown in Cast-In-Place Section of Box Culvert To Be Built In Field. If the Contractor elects to use reinforcement bars instead of WWF for cast-in-place section of box culvert, bars may consist of #3 thru #6 bars and the spacing shall not exceed the lesser of the wall thickness or 8".

**BILL OF MATERIAL (UPSTREAM END)**

For Information Only  
(One End Section)

Bar	No.	Size	Length	Shape
h	4	#6	10'-1"	—
h <sub>1</sub>	10	#4	2'-7"	⌋
h <sub>2</sub>	10	#4	2'-2"	⌋
s or s <sub>1</sub>	9	#4	3'-10"	U U
v	18	#5	6'-10"	—
d	8	#4	4'-4"	⌋
Item	Unit	Total		
Concrete Box Culverts	Cu. Yd.	13.0		
Reinforcement Bars	Pound	228.0		
Welded Wire Fabric	Sq. Ft.	1350.0		

**END SECTION DETAILS  
SINGLE 7'x5' PRECAST BOX CULVERT  
F.A.P. ROUTE 711 - SECTION 115CR  
VERMILION COUNTY  
STATION 272+92.00, S.N. 092-8087  
CULVERT NO. 2**



FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BOX CULVERT END SECTION DETAILS CULVERT NO. 2</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw\work\pww\shererjm\d0189007\0570617-sht-Details.dgn		DRAWN - JMS	REVISED -		SCALE: N/A	SHEET NO. 8 OF 9 SHEETS	STA.	TO STA.	711	115CR	VERMILION	39	26
		CHECKED -	REVISED -										
		DATE - 031210	REVISED -										
								CONTRACT NO. 70617					
								ILLINOIS FED. AID PROJECT					



Illinois Department  
of Transportation  
Division of Highways  
IDOT

# SOIL BORING LOG

Page 1 of 1

Date 7/6/10

ROUTE FAP 711 (US 136) DESCRIPTION Box Culvert 1 Mile East of Potomac on US 136 LOGGED BY CNA

SECTION 115 CR LOCATION SE, SEC. 2, TWP. 21N, RNG. 13W, 2nd PM GPS:

COUNTY Vermilion DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

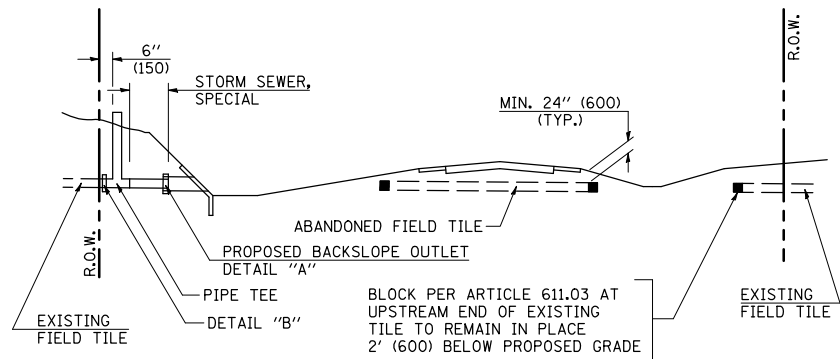
STRUCT. NO. 092-8082  
 Station 272+79  
 BORING NO. 1 SE Boring  
 Station 273+05  
 Offset 14.0 ft Rt.  
 Ground Surface Elev. 663.1 ft

DEPTH (ft)	DIAMETER (ft)	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	DIAMETER (ft)	UCS (tsf)	MOISTURE (%)	DESCRIPTION
0				Brown Sand Loam with Gravel (Embankment)	0				Gray Poorly Sorted Coarse Sand & Gravel
2					2				
3		0.8	26		3				(Trace of Gray CL Till)
3		B			3				
4				Brown Loose Sand Loam with Gravel	4				Gray Clay Loam Till
1			14		1				
3					3				
1					1				
1			19		1				
1					1				
2				Brown Dirty Coarse Sand with Gravel	2				
1					1				
3					3				
2					2				
4					4				
3					3				
9					9				
18					18				
27					27				
									End of Boring

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.  
 The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

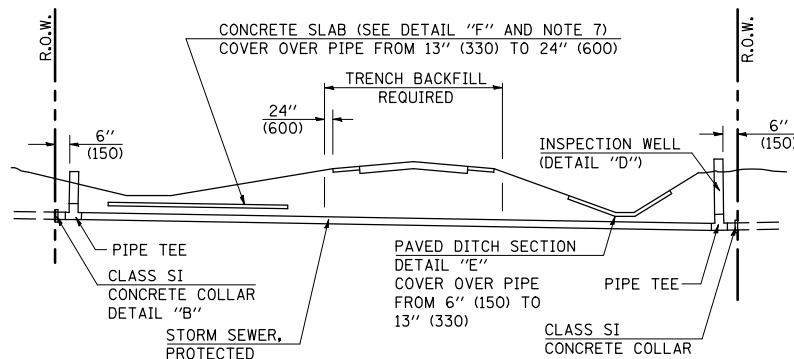
BBS, from 137 (Rev. 8-99)

7/2/2010 1:18:59 PM S:\SOILS\BORING LOGS\VERMILION CMT\092-8082.GPJ



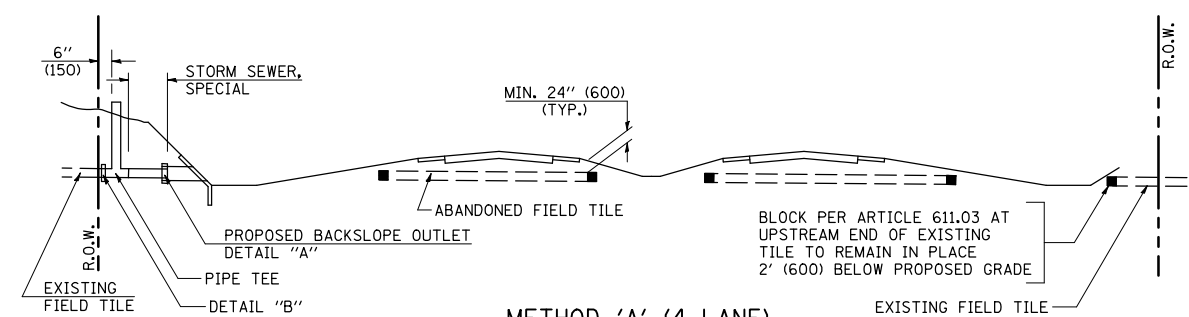
**METHOD 'A' (2 LANE)**

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



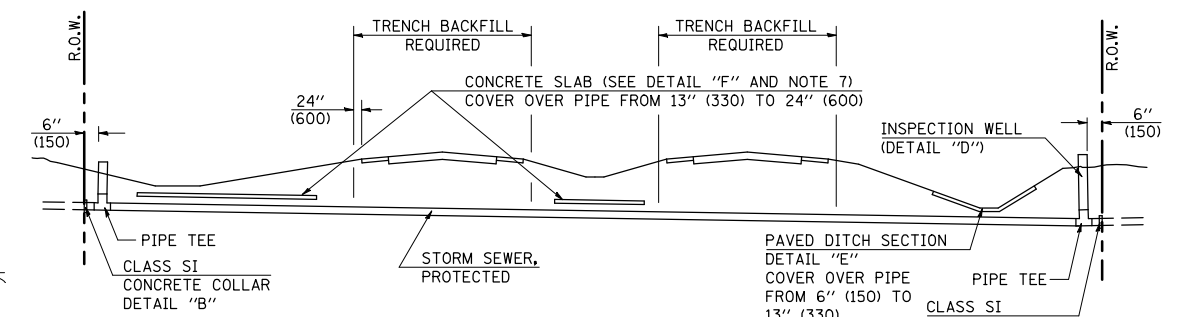
**METHOD 'B' (2 LANE)**

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENT AND PAVED DITCH



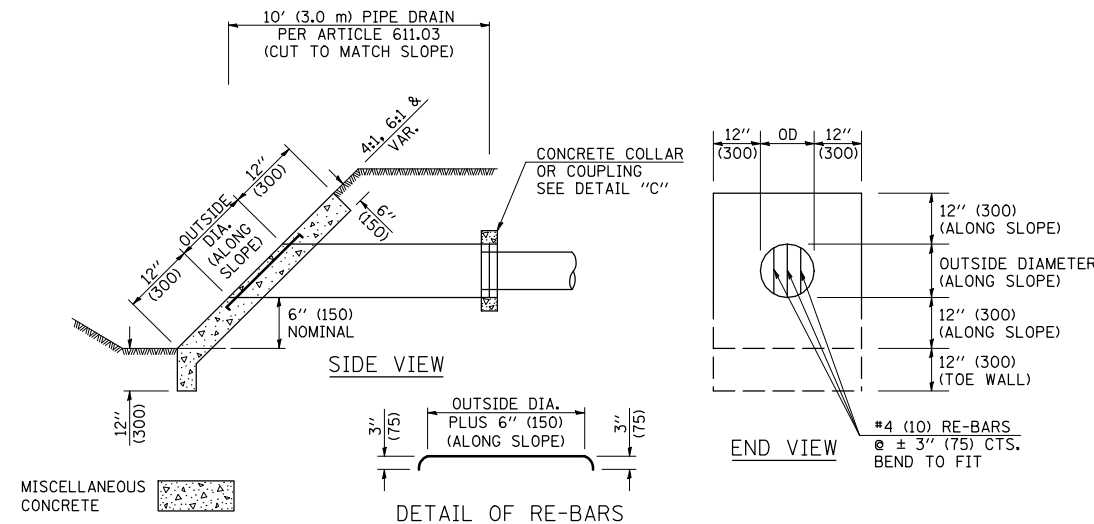
**METHOD 'A' (4 LANE)**

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE

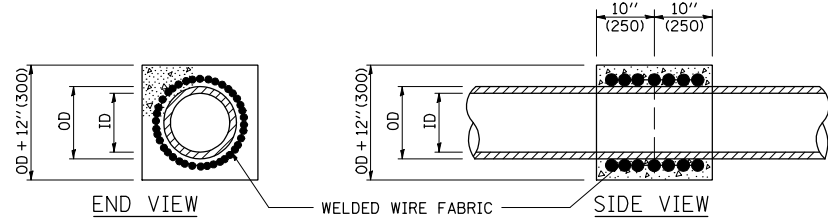


**METHOD 'B' (4 LANE)**

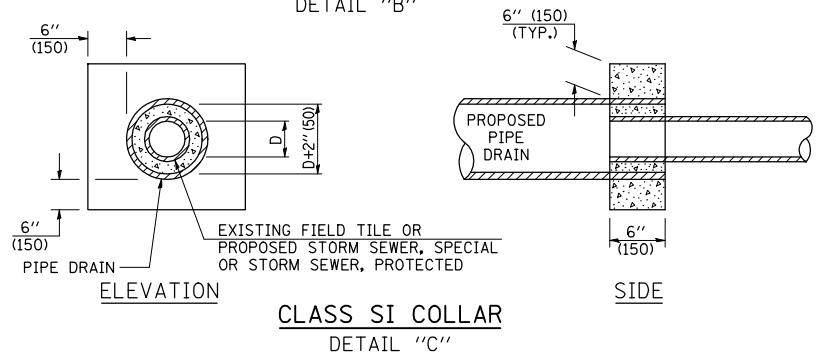
STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES



**HEADWALL FOR BACKSLOPE OUTLET  
DETAIL "A"**



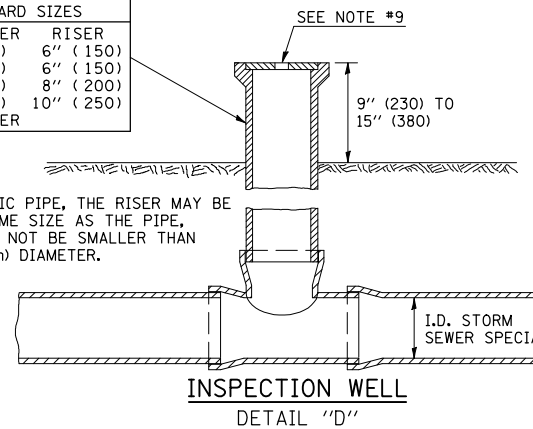
**CONCRETE COLLAR  
DETAIL "B"**



**CLASS SI COLLAR  
DETAIL "C"**

CONCRETE PIPE STANDARD SIZES	
STORM SEWER	RISER
6" (150)	6" (150)
8" (200)	6" (150)
10" (250)	8" (200)
12" (300)	10" (250)
OR GREATER	

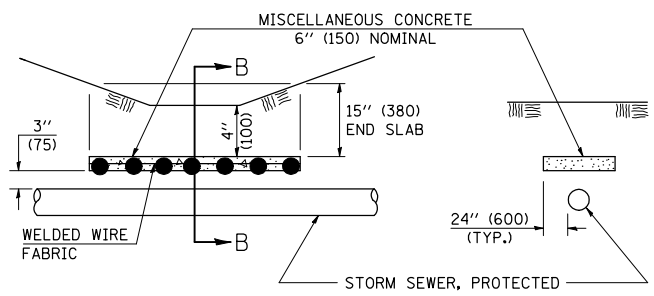
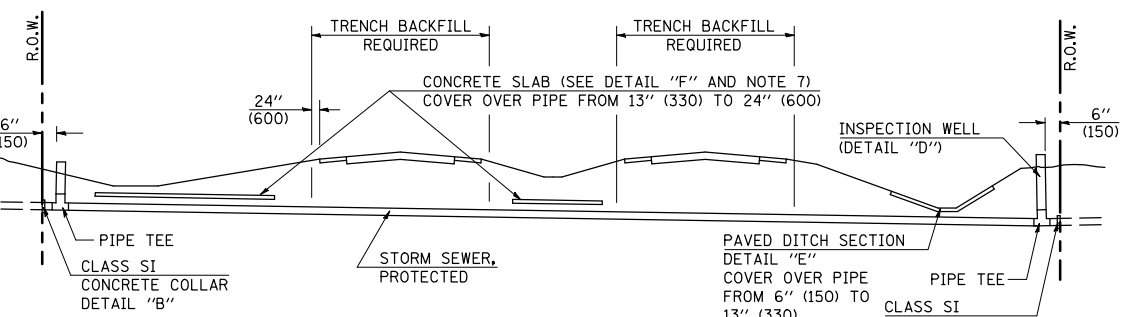
FOR PLASTIC PIPE, THE RISER MAY BE OF THE SAME SIZE AS THE PIPE, BUT SHALL NOT BE SMALLER THAN 4" (100 mm) DIAMETER.



**INSPECTION WELL  
DETAIL "D"**

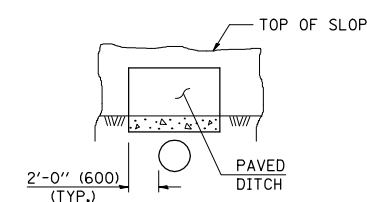
**GENERAL NOTES**

- EXISTING FIELD TILE ENCOUNTERED BY EXPLORATION TRENCH SHALL BE INSPECTED BY THE ENGINEER FOR UNOBSTRUCTED FLOW WITHIN THE LIMITS OF THE RIGHT-OF-WAY.
- ONLY FIELD TILE THAT DOES NOT HAVE SATISFACTORY FLOW AND OR HAS VISIBLE SIGNS OF DETERIORATION (SINK HOLES, ETC.) SHALL BE REPLACED WITHIN THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH METHOD "B".
- INSPECTION WELLS SHALL BE CONSTRUCTED APPROXIMATELY 6" (150 mm) INSIDE OF BOTH RIGHT-OF-WAY LINES AT ALL FIELD TILE LOCATIONS.
- EXISTING FIELD TILE ABANDONED UNDER EXISTING PAVEMENTS OR PAVED SHOULDERS SHALL BE FILLED WITH FLOWABLE GROUT AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.
- NON-CIRCULAR FIELD TILE SHALL BE REPLACED WITH STORM SEWER, SPECIAL OF AT LEAST THE SAME CROSS SECTIONAL AREA. ALL EXISTING FIELD TILE SHALL BE REPLACED WITH STORM SEWER OF THE TYPE REQUIRED FOR THE MINIMUM DEPTH OF COVER.
- THE 6" (150 mm) CONCRETE SLAB OR DITCH LINING SHALL BE POURED THE LENGTH OF THE TRENCH AT ALL DITCH FLOW LINE LOCATIONS WITHIN THE RIGHT-OF-WAY WITH LESS THAN 2' (600 mm) OF EARTH COVER. MISCELLANEOUS CONCRETE SHALL BE USED ACCORDING TO SECTION 611.
- ALL MISCELLANEOUS SLABS, APRONS AND DITCH LININGS SHALL BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN FOR PAVED DITCH IN STANDARD 606401.
- HEADWALL FOR BACKSLOPE OUTLET MAY BE USED FOR PIPE DRAIN DIAMETERS UP TO 10" (250 mm). SPECIAL DESIGNS WILL BE REQUIRED FOR LARGER SIZES.
- THE INSPECTION WELL LID FOR P.C.C. PIPE SHALL BE CONSTRUCTED OF 3/8" (10 mm) CAST IRON AND PROVIDED WITH A 1" (25 mm) DIAMETER HOLE IN CENTER. THE LID FOR THE OTHER PIPE MATERIALS SHALL BE A GRATE ASSEMBLY PREFABRICATED FOR AND COMPATIBLE WITH THE PIPE SYSTEM.



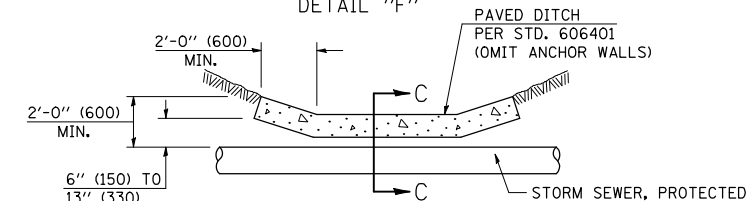
**SLAB ELEVATION**

**CONCRETE SLAB  
DETAIL "F"**



**SECTION C-C**

**PAVED DITCH  
DETAIL "E"**



**PAVED DITCH ELEVATION**

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. 61101011A**

FILE NAME =	USER NAME = shererjm	DESIGNED -	REVISED - 11/06
ct:\pw\work\p\dot\shererjm\d0189007\0570617-sht-Details.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FIELD TILE SYSTEMS (TREATMENT OF EXISTING)**

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
711	115CR	VERMILION	39	28
FED. ROAD DIST. NO.				ILLINOIS FED. AID PROJECT
CONTRACT NO. 70617				



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

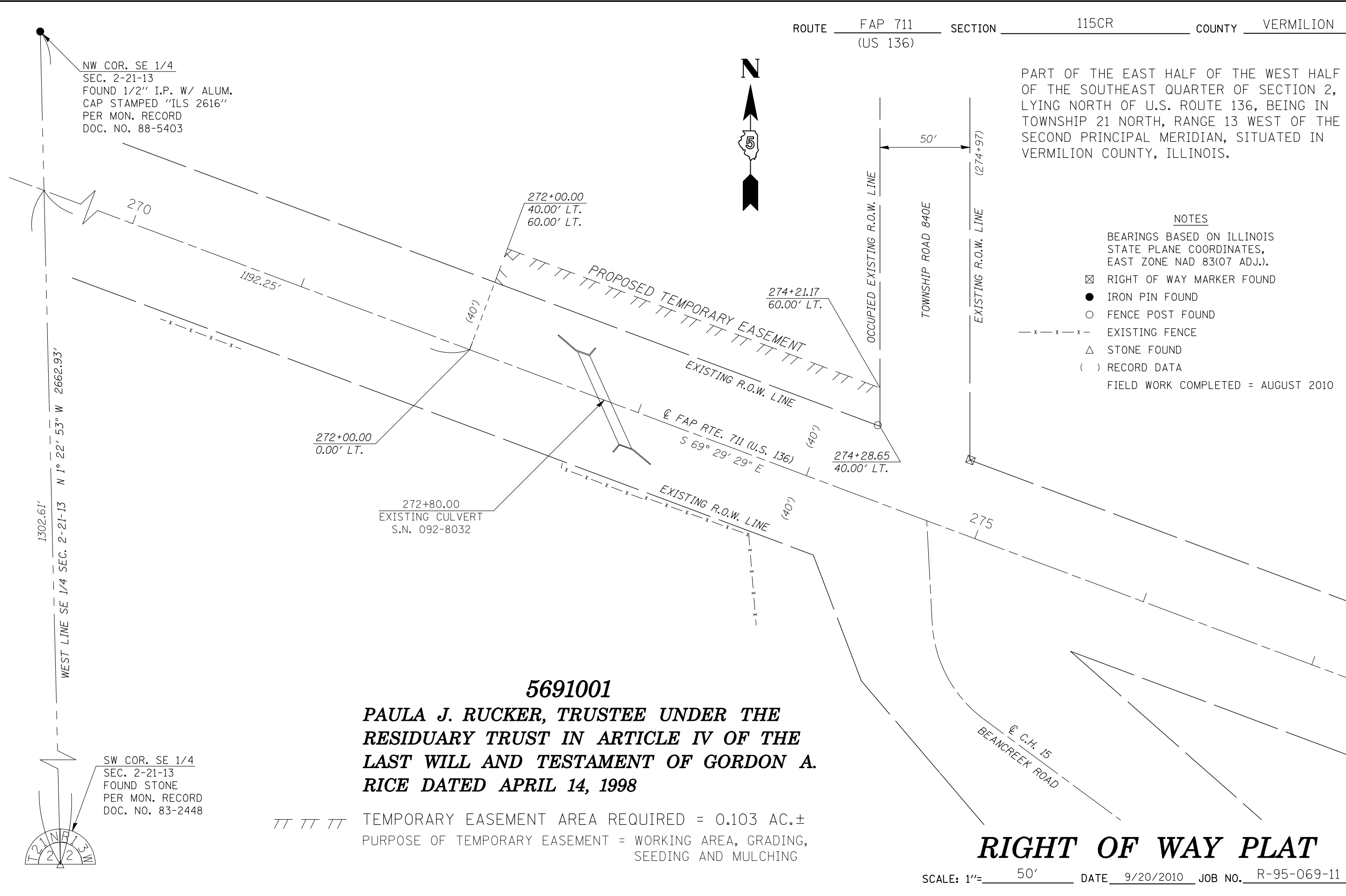
ROUTE FAP 711 SECTION 115CR COUNTY VERMILION  
(US 136)

PART OF THE EAST HALF OF THE WEST HALF OF THE SOUTHEAST QUARTER OF SECTION 2, LYING NORTH OF U.S. ROUTE 136, BEING IN TOWNSHIP 21 NORTH, RANGE 13 WEST OF THE SECOND PRINCIPAL MERIDIAN, SITUATED IN VERMILION COUNTY, ILLINOIS.



- NOTES
- BEARINGS BASED ON ILLINOIS STATE PLANE COORDINATES, EAST ZONE NAD 83(07 ADJ.).
  - ☒ RIGHT OF WAY MARKER FOUND
  - IRON PIN FOUND
  - FENCE POST FOUND
  - x-x-x- EXISTING FENCE
  - △ STONE FOUND
  - ( ) RECORD DATA
- FIELD WORK COMPLETED = AUGUST 2010

BY	DATE	COMPUTED	CHECKED	INKED	INK CHECKED
R.O.W. PLAT NO.	NOTE BOOK NO.				



**5691001**  
**PAULA J. RUCKER, TRUSTEE UNDER THE RESIDUARY TRUST IN ARTICLE IV OF THE LAST WILL AND TESTAMENT OF GORDON A. RICE DATED APRIL 14, 1998**

TEMPORARY EASEMENT AREA REQUIRED = 0.103 AC.±  
 PURPOSE OF TEMPORARY EASEMENT = WORKING AREA, GRADING, SEEDING AND MULCHING

# RIGHT OF WAY PLAT

SCALE: 1"= 50' DATE 9/20/2010 JOB NO. R-95-069-11

ROUTE FAP 711 SECTION 115CR COUNTY VERMILION  
(US 136)

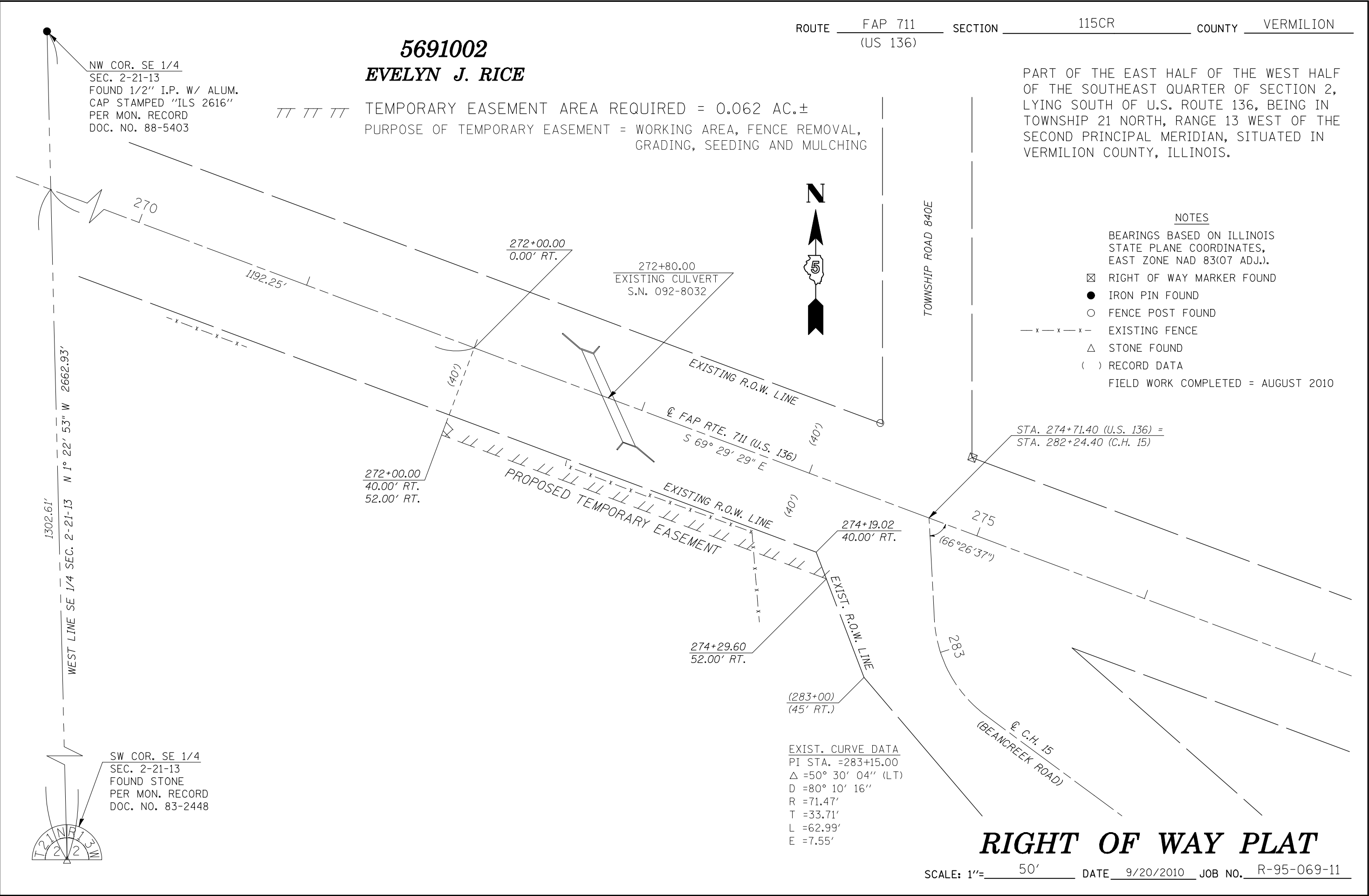
**5691002**  
**EVELYN J. RICE**

TEMPORARY EASEMENT AREA REQUIRED = 0.062 AC.±  
PURPOSE OF TEMPORARY EASEMENT = WORKING AREA, FENCE REMOVAL,  
GRADING, SEEDING AND MULCHING

PART OF THE EAST HALF OF THE WEST HALF  
OF THE SOUTHEAST QUARTER OF SECTION 2,  
LYING SOUTH OF U.S. ROUTE 136, BEING IN  
TOWNSHIP 21 NORTH, RANGE 13 WEST OF THE  
SECOND PRINCIPAL MERIDIAN, SITUATED IN  
VERMILION COUNTY, ILLINOIS.

- NOTES
- BEARINGS BASED ON ILLINOIS STATE PLANE COORDINATES, EAST ZONE NAD 83(07 ADJ.).
  - ☒ RIGHT OF WAY MARKER FOUND
  - IRON PIN FOUND
  - FENCE POST FOUND
  - x-x-x- EXISTING FENCE
  - △ STONE FOUND
  - ( ) RECORD DATA
- FIELD WORK COMPLETED = AUGUST 2010

BY	DATE	COMPUTED	CHECKED	INKED	INK CHECKED
R.O.W. PLAT NO.	NOTE BOOK NO.				



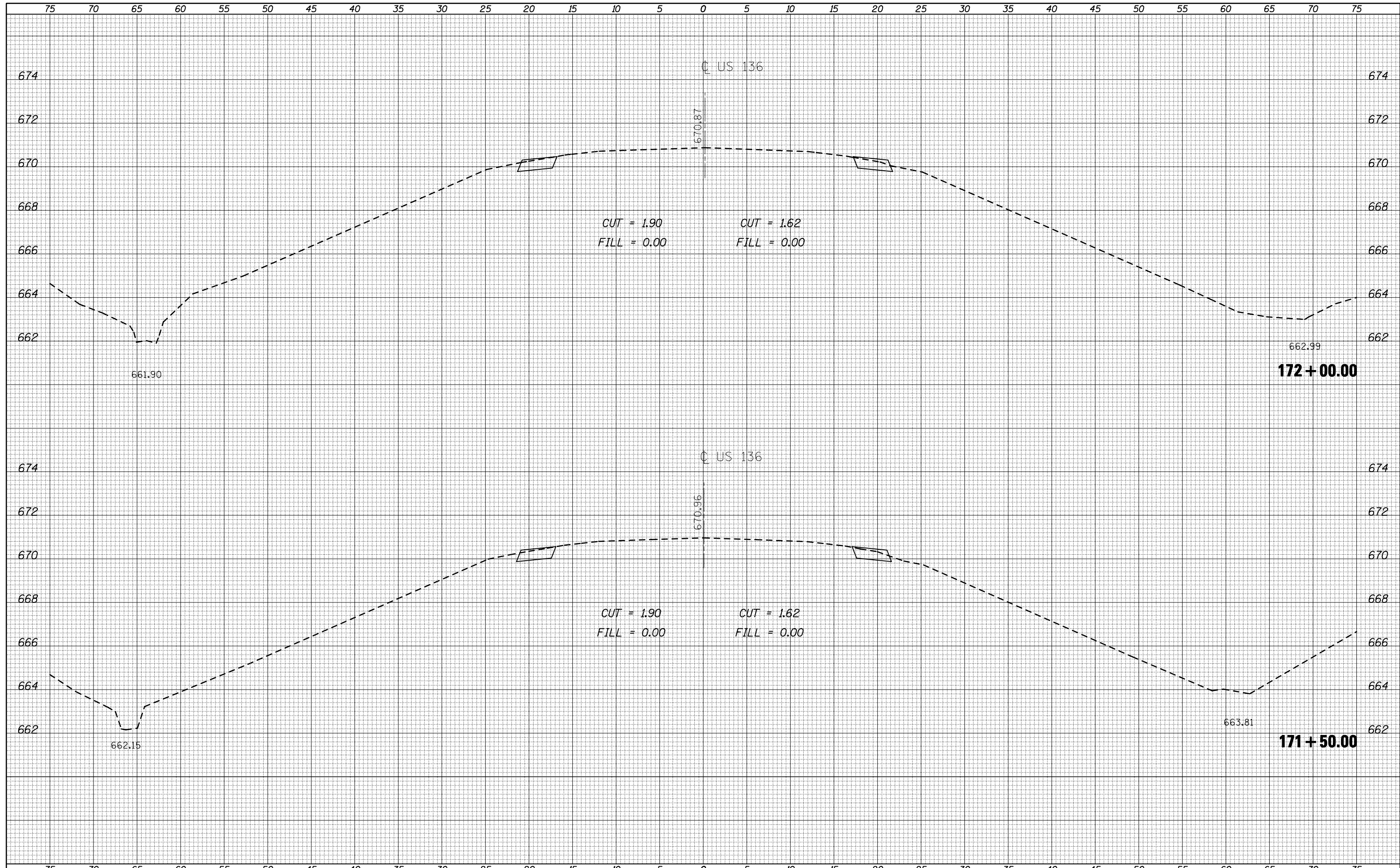
EXIST. CURVE DATA  
 PI STA. =283+15.00  
 Δ =50° 30' 04" (LT)  
 D =80° 10' 16"  
 R =71.47'  
 T =33.71'  
 L =62.99'  
 E =7.55'

**RIGHT OF WAY PLAT**

SCALE: 1"= 50' DATE 9/20/2010 JOB NO. R-95-069-11

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

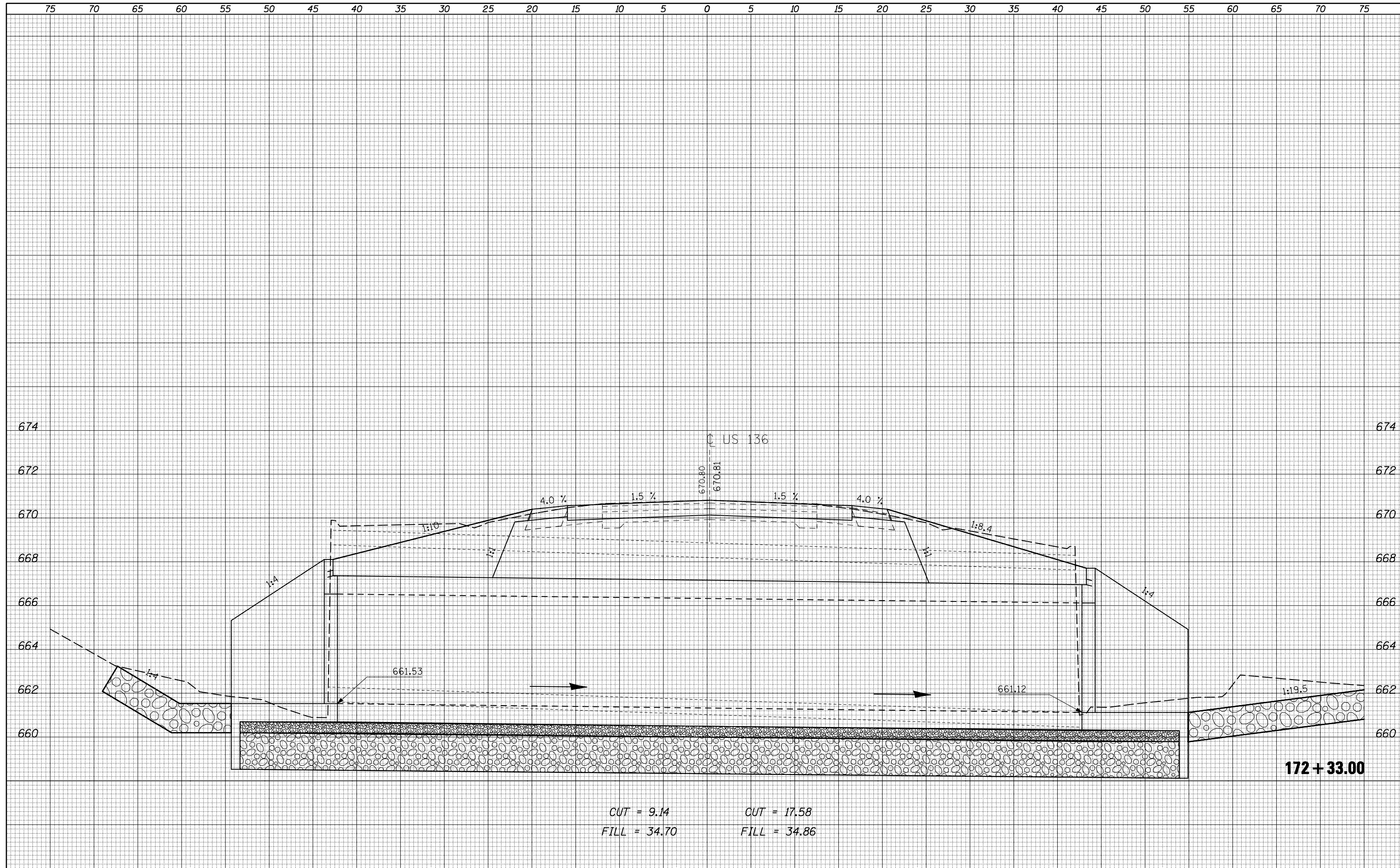
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AREAS	
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ORIGINAL SURVEY	
NOTE BOOK	
NO.	



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PLOT DATE = 11/16/2010	DATE -	REVISIED -	REVISIED -		SCALE:	SHEET NO. 1 OF 3 SHEETS	STA. 171+50.00	TO STA. 172+00.00			

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
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BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



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PLOT DATE = 11/16/2010	DATE -

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DATE -	REVIS

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DATE -	REVIS

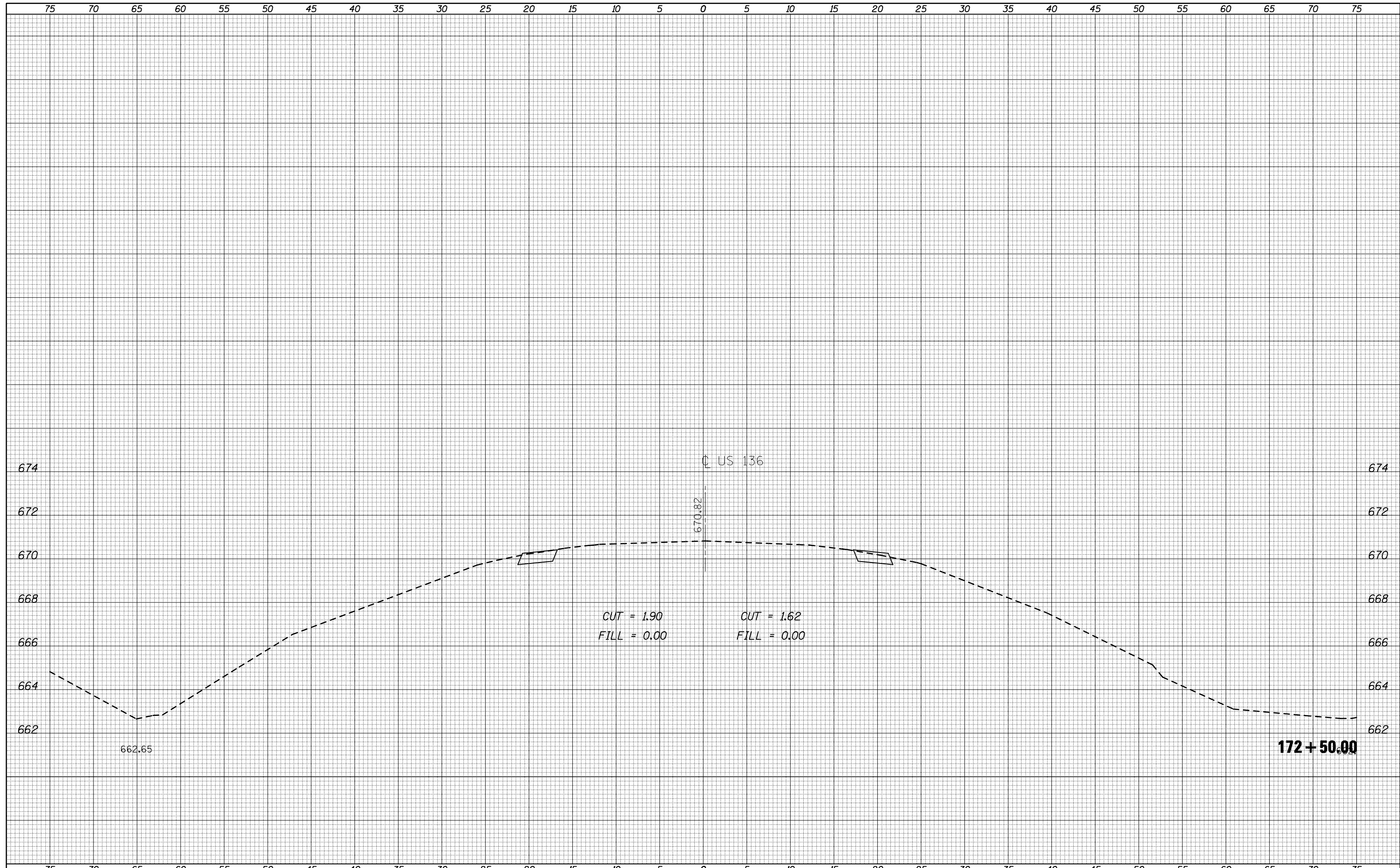
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>CROSS-SECTIONS</b>	
<b>PROPOSED SN 092-8086</b>	
SCALE:	SHEET NO. 2 OF 3 SHEETS
	STA. 172+33.00 TO STA. 172+33.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
711	115CR	VERMILION	39	32
CONTRACT NO. 70617				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
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DATE	
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TEMPLATE	
AREAS	
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ORIGINAL SURVEY	
NOTE BOOK	
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 CHECKED -  
 PLOT DATE = 11/16/2010

DESIGNED -  
 DRAWN -  
 CHECKED -  
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REVISED -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

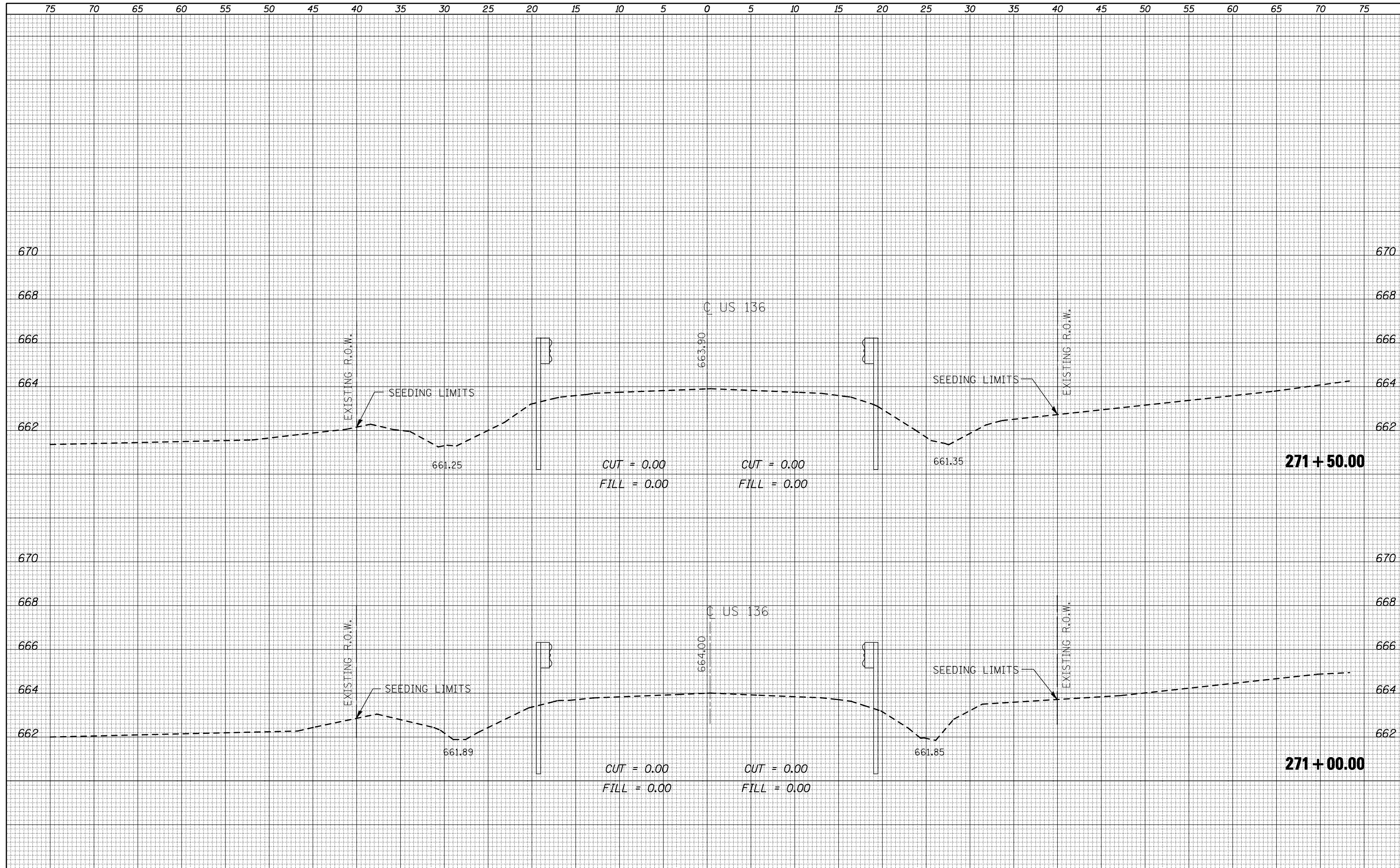
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 PROPOSED SN 092-8086**  
 SCALE: SHEET NO. 3 OF 3 SHEETS STA. 172+50.00 TO STA. 172+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
711	115CR	VERMILION	39	33
CONTRACT NO. 70617			ILLINOIS FED. AID PROJECT	



DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



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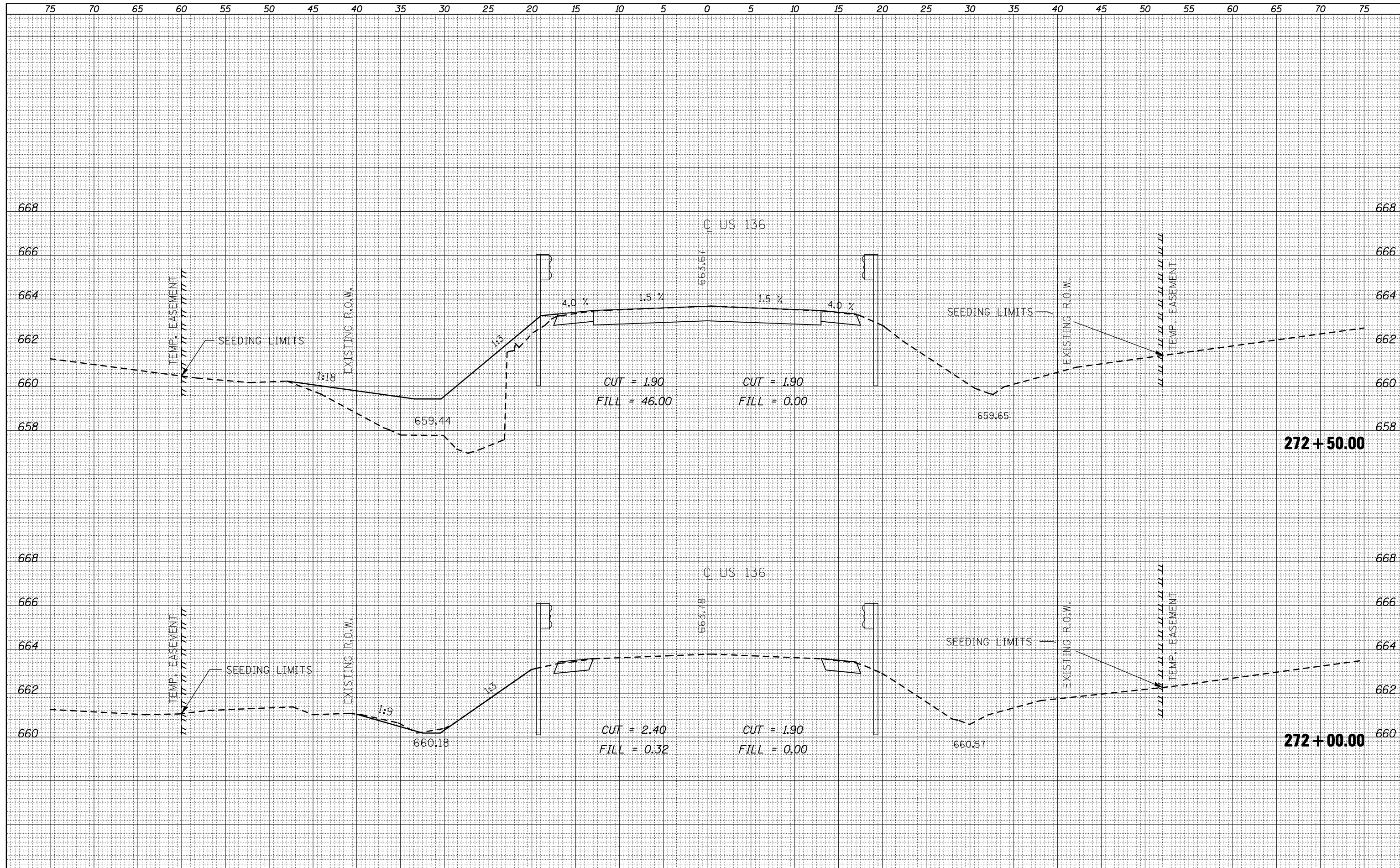
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CROSS-SECTIONS PROPOSED SN 092-8087</b>	
SCALE:	SHEET NO. 1 OF 6 SHEETS
	STA. 271+00.00 TO STA. 271+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
711	115CR	VERMILION	39	34
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70617	

DATE	
BY	
FINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
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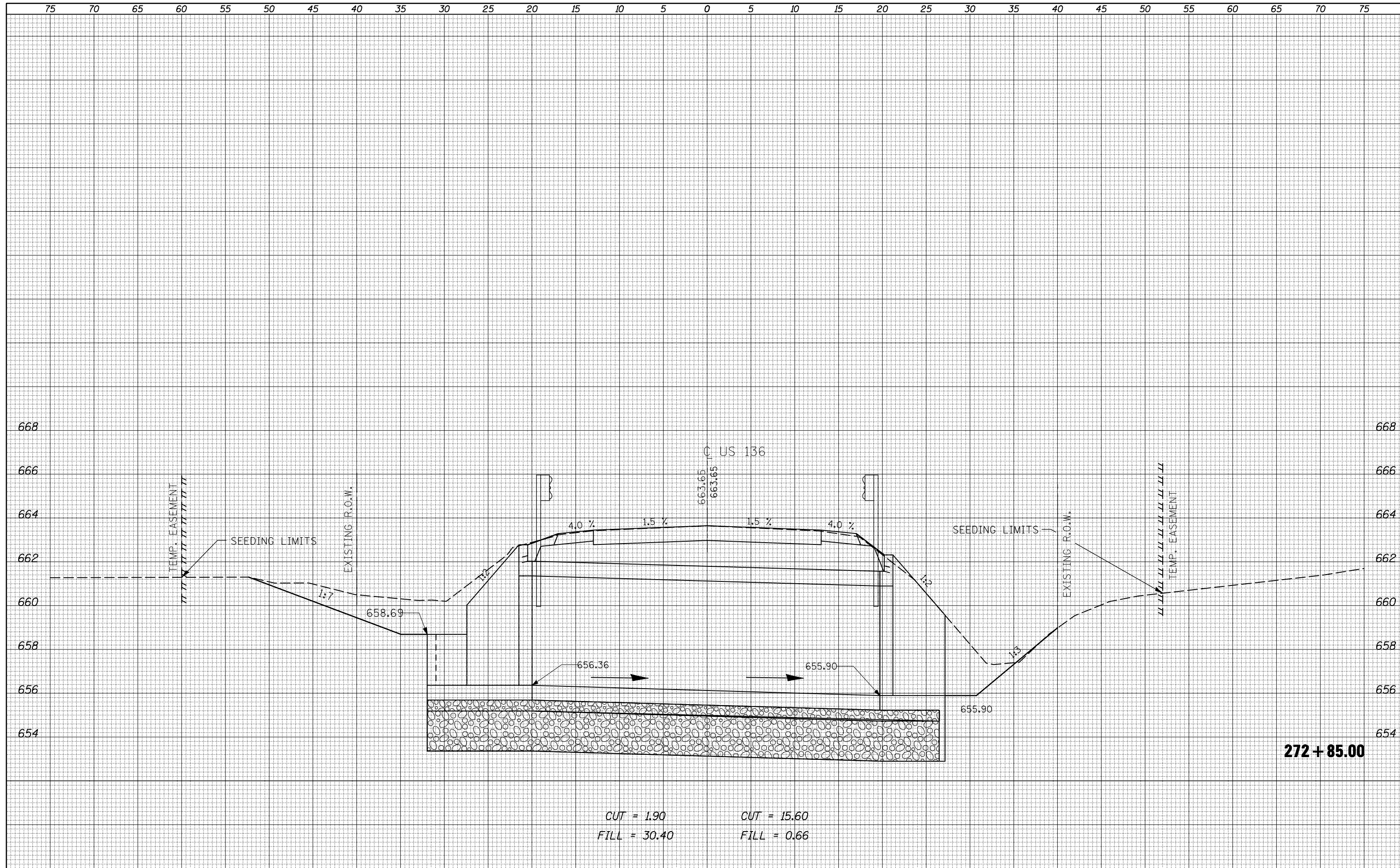
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CROSS-SECTIONS PROPOSED SN 092-8087</b>	
SCALE:	SHEET NO. 2 OF 6 SHEETS
	STA. 272+00.00 TO STA. 272+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
711	115CR	VERMILION	39	35
				CONTRACT NO. 70617
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
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AREAS	
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ORIGINAL SURVEY	
NOTE BOOK	
NO.	



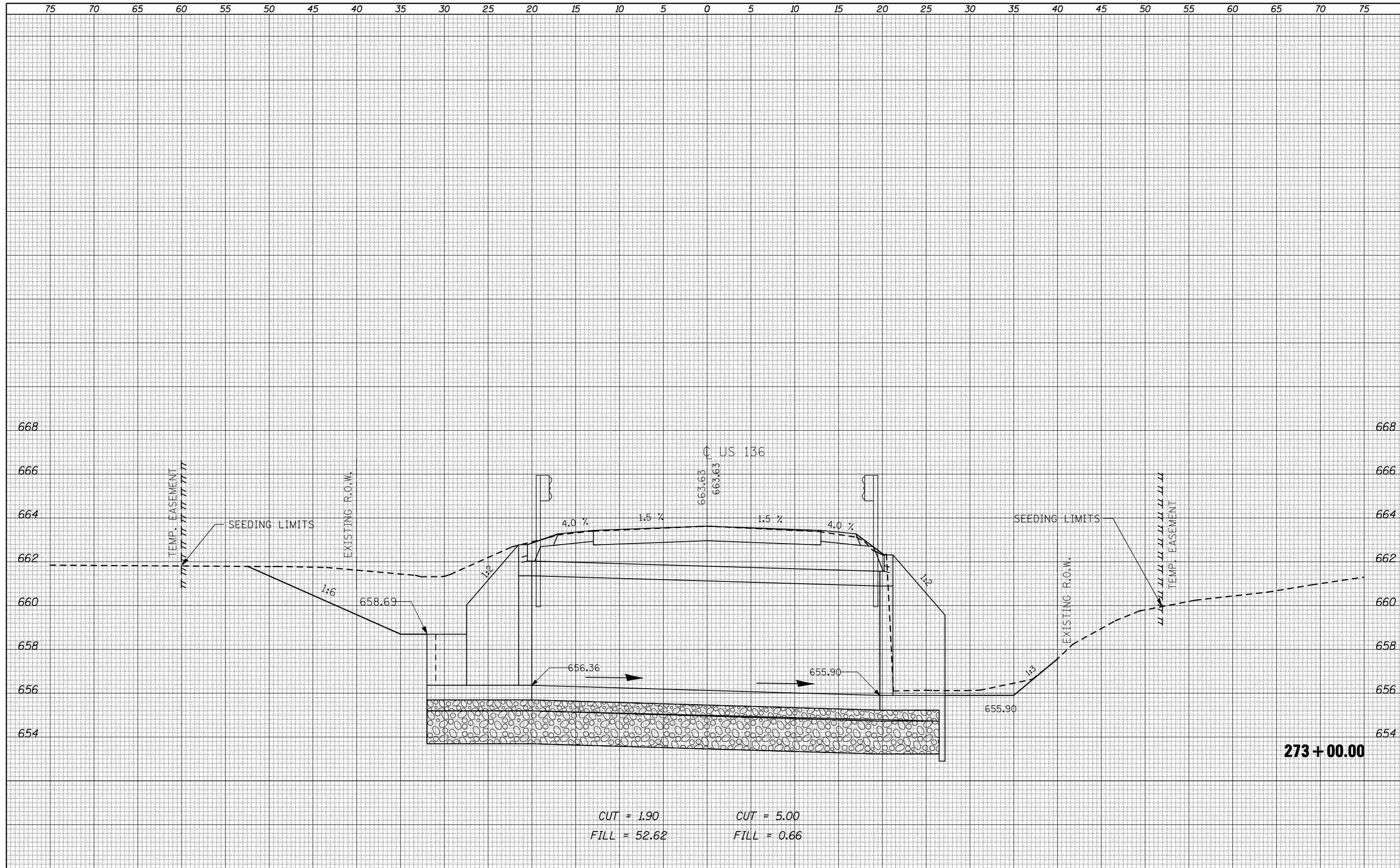
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		CHECKED -	REVISED -			CONTRACT NO. 70617					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
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DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINL	
SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL	
SURVEY	
NOTE BOOK	
NO.	



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PLOT DATE = 11/16/2010	DATE -

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

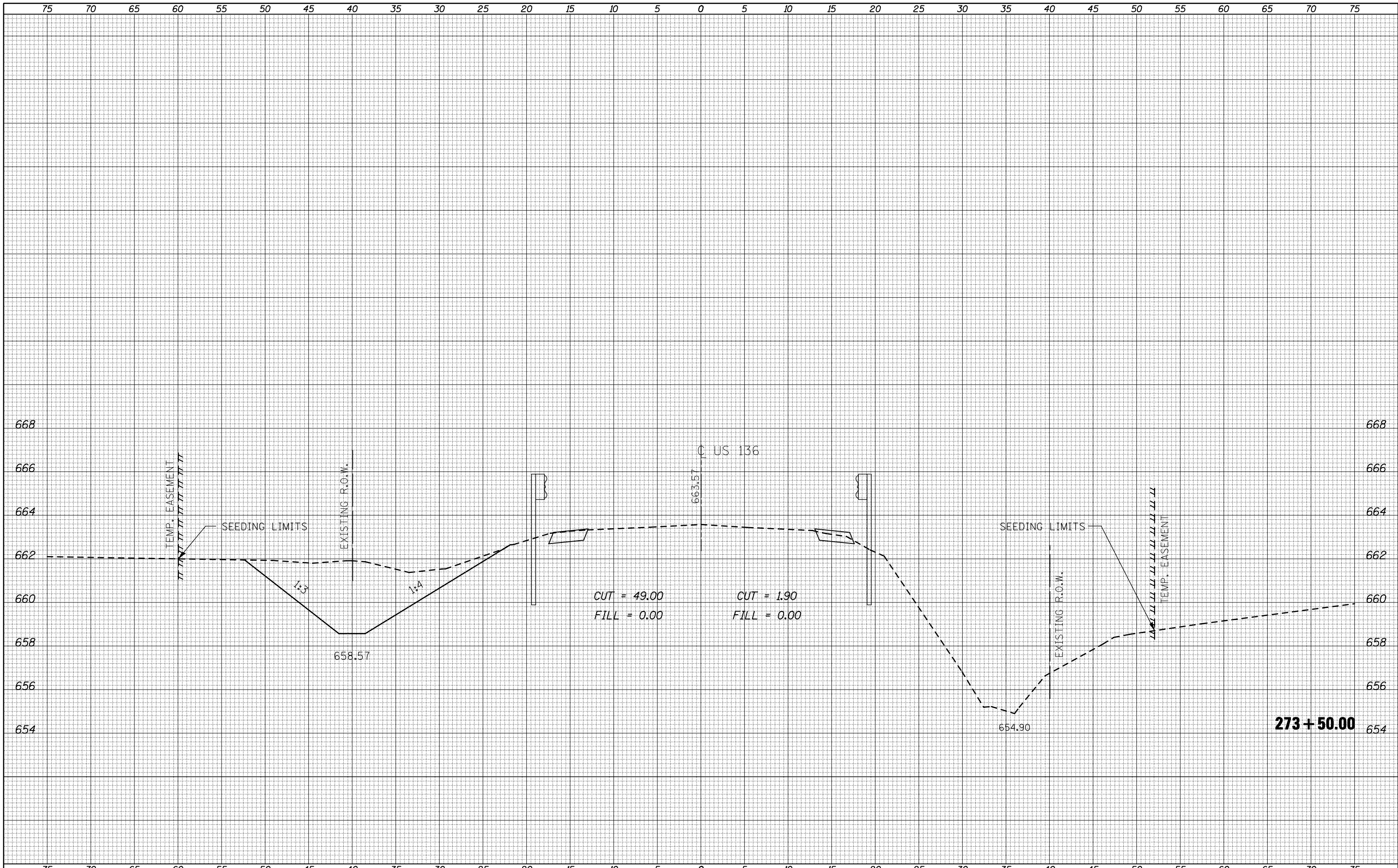
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**CROSS-SECTIONS**  
**PROPOSED SN 092-8087**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
711	115CR	VERMILION	39	37
				CONTRACT NO. 70617
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



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PLOT DATE = 11/16/2010	DATE -

DESIGNED -	REVISED -
DRAWN -	REVISED -
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DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

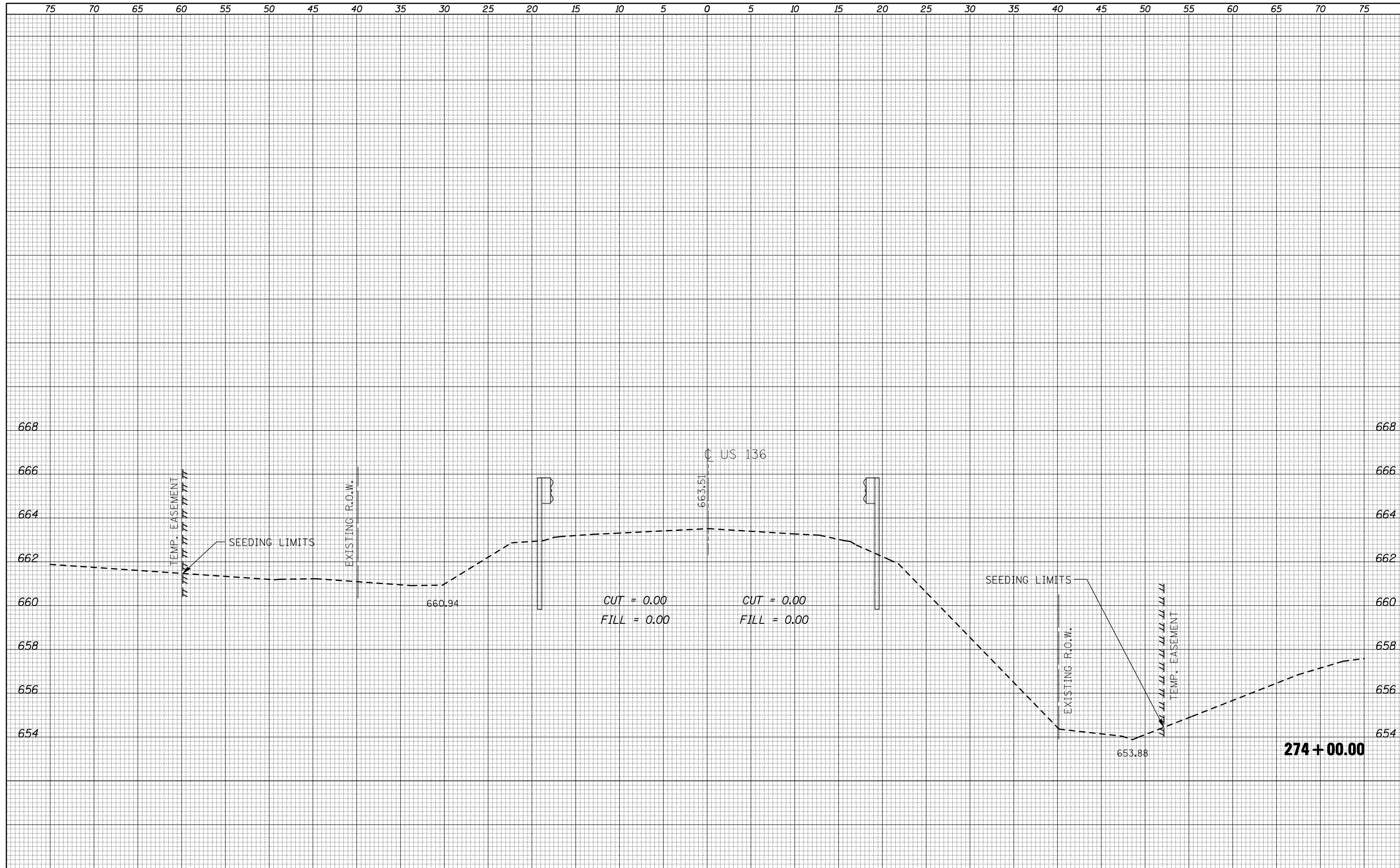
**CROSS-SECTIONS  
PROPOSED SN 092-8087**

SCALE: SHEET NO. 5 OF 6 SHEETS STA. 273+50.00 TO STA. 273+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
711	115CR	VERMILION	39	38
				CONTRACT NO. 70617
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME =  
 USER NAME = sherer-jm  
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 CHECKED -  
 DATE -

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 REVISIED -  
 REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS-SECTIONS  
 PROPOSED SN 092-8087**  
 SCALE: SHEET NO. 6 OF 6 SHEETS STA. 274+00.00 TO STA. 274+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
711	115CR	VERMILION	39	39
CONTRACT NO. 70617			ILLINOIS FED. AID PROJECT	