

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PLANS FOR
PROPOSED LOCAL
AGENCY IMPROVEMENT**

FAU 6779 (COUNTY LINE ROAD)
SECTION 11-00101-04-BR
PROJECT NO. BRM-5025(053)
CITY OF GALESBURG
KNOX COUNTY
C-94-010-12

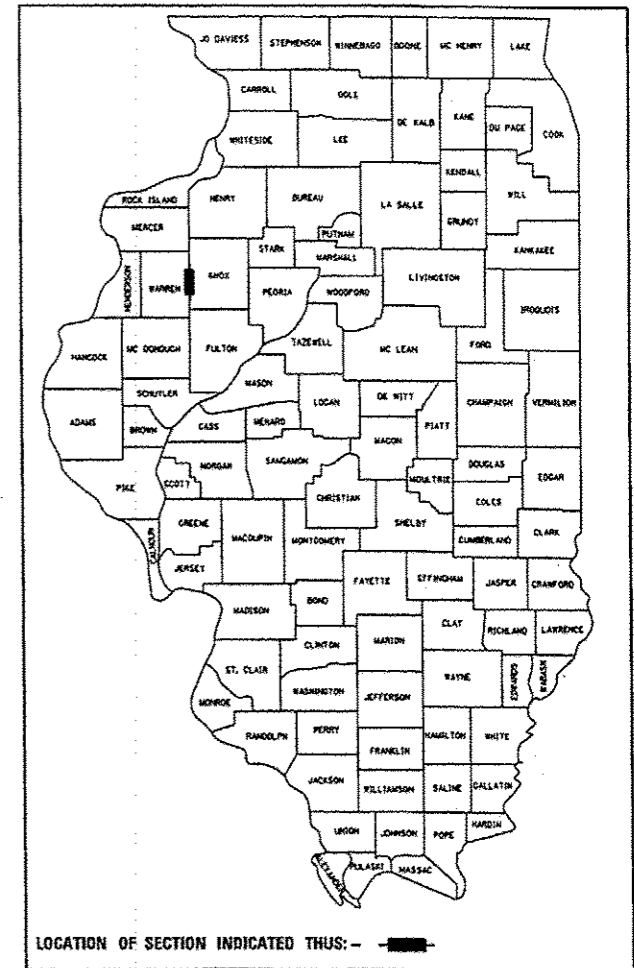
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6779	11-00101-04-BR	KNOX	30	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 89611		

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES / SPECIAL DETAILS
- 3 SUMMARY OF QUANTITIES
- 4-6 TYPICAL SECTIONS
- 6-7 SCHEDULE OF QUANTITIES
- 8 ALIGNMENT TIES, AND BENCHMARKS
- 9 REMOVAL AND EROSION CONTROL PLAN
- 10 PLAN AND PROFILE SHEET
- 11-22 STRUCTURE PLANS
- 23-25 CROSS SECTIONS
- 26-30 D4 CADD STANDARDS

HIGHWAY STANDARDS

NO.	REV	DESCRIPTION
000001	-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001	-02	AREAS OF REINFORCEMENT BARS
001006		DECIMAL OF AN INCH AND OF A FOOT
280001	-07	TEMPORARY EROSION CONTROL SYSTEMS
420401	-10	BRIDGE APPROACH PAVEMENT CONNECTOR
515001	-03	NAME PLATE FOR BRIDGES
630001	-10	STEEL PLATE BEAM GUARDRAIL
630301	-08	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
831032	-08	TRAFFIC BARRIER TERMINAL, TYPE 6A
835006	-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
835011	-02	REFLECTOR MARKER AND MOUNTING DETAILS
865001	-02	WOVEN WIRE FENCE
866001	-01	RIGHT OF WAY MARKERS
867101	-02	PERMANENT SURVEY MARKERS
701001	-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15', (4.5 m) AWAY
701006	-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24' (600mm) FROM PAVEMENT EDGE
701011	-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701901	-03	TRAFFIC CONTROL DEVICES
B.L.R.	21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS



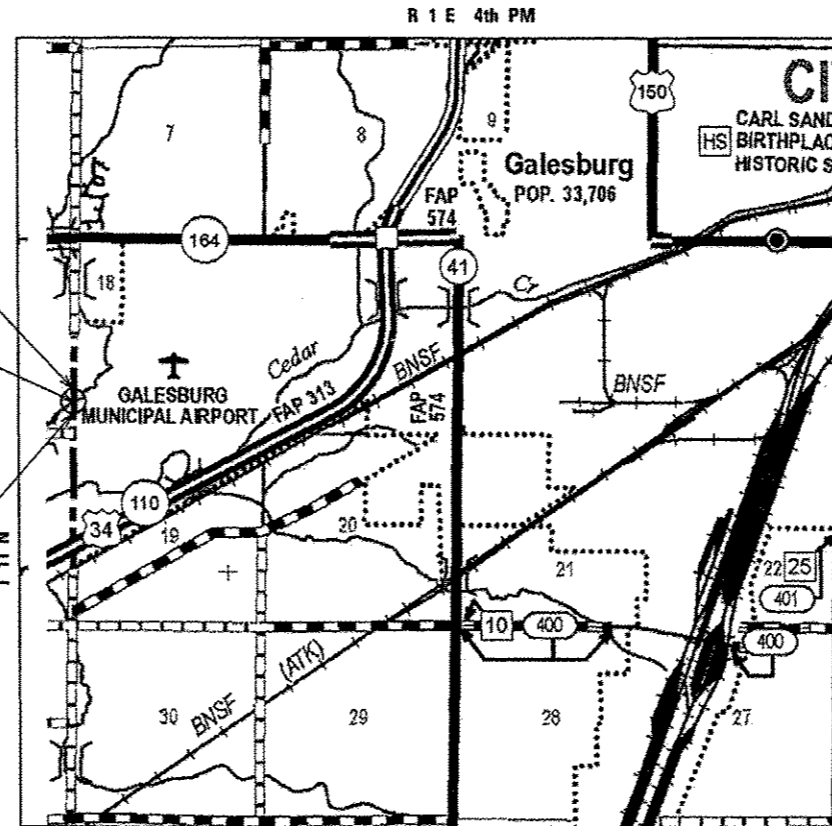
QC/OA PORTLAND CEMENT
CONCRETE PROJECT

IMPROVEMENT ENDS
STATION 112+44.00

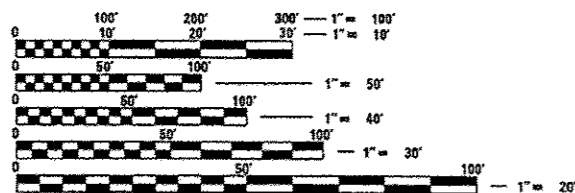
REPLACEMENT OF SINGLE SPAN
PRECAST CONCRETE DECK SLAB
BRIDGE (CHANNEL BEAM) ON TIMBER
PILE AND AND CAP ABUTMENTS WITH
A SINGLE SPAN DECK BEAM OPEN
ABUTMENT BRIDGE

EXIST S.N. 048-6002
PROP. S.N. 048-6052
C STA. 109+34.03

IMPROVEMENT BEGINS
STATION 107+00.00



GALESBURG TOWNSHIP
LOCATION MAP



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

PROJECT ENGINEER GEORGE MERKLE
PROJECT MANAGER RICK ANDERSON

CONTRACT NO. 89611
CATALOG NO. 034716-00

MAURER-STUTZ
ENGINEERS SURVEYORS
3116 DRIES LN STE 100
PEORIA, ILLINOIS 61604
PH. (309) 693-7615
FAX (309) 693-7616
PROFESSIONAL DESIGN FIRM #184-005754

ROADWAY CLASSIFICATION
FAU 6779 (COUNTY LINE ROAD) - COLLECTOR (URBAN)
ADT 100 (2013) - 87% PV 13% TRUCKS
DESIGN SPEED : 30 MPH
DESIGN POLICY : 3R GUIDELINES

GROSS LENGTH = 544 FT. = 0.10 MILES
NET LENGTH = 497 FT. = 0.09 MILES
VARIANCES: NONE
COMMITMENTS: THE CITY WILL PLANT 15 SAPLINGS WITHIN THE CITY ROW ONCE MATURED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED 12-30 2013
Wayne E. Carl
CITY OF GALESBURG

PASSED 12-30 2013
[Signature]
DISTRICT FOUR ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR
BID BASED ON
LIMITED REVIEW 02/20/13
20 13

DEPUTY DIRECTOR OF HIGHWAYS, REGION THREE ENGINEER

George B. Merkle
George B. Merkle, PE
PE No. 042917
Exp. Date 11/30/2015

062-042917
LICENSED
PROFESSIONAL
ENGINEER
OF
ILLINOIS

GENERAL NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO ANY UTILITY LINES AND EXISTING IMPROVEMENTS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES ON SITE PRIOR TO ANY CONSTRUCTION AND WILL BE HELD RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THEIR FACILITIES. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF THE UTILITIES. THE CONTRACTOR SHALL CALL J.U.L.I.E. @ 1-800-892-0123 FOR UTILITY LOCATIONS.

THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY IMMEDIATELY.

EXISTING ROAD SIGNS THAT INTERFERE WITH THE CONSTRUCTION WILL BE RELOCATED AS DIRECTED BY THE ENGINEER OR OWNER. AFTER CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL REPLACE THE SIGNS AS DIRECTED. SIGN REMOVAL, STORAGE AND RELOCATION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND WILL NOT BE PAID FOR SEPARATELY.

ADJUSTMENTS OF PROPOSED GRADES TO MATCH EXISTING ENTRANCES OR OTHER FIELD CONDITIONS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

THE WORK AREA SHALL BE POSITIVELY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.

WHERE PROPOSED CONSTRUCTION ABUTS EXISTING APPURTENANCES, A FULL DEPTH SAWCUT SHALL BE MADE TO ACHIEVE A CLEAN BREAK BETWEEN THE PROPOSED AND THE EXISTING ITEM. THE SAWCUT IS TO BE INCLUDED IN THE COST OF THE ADJACENT REMOVAL.

THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED.

ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED FROM U.S.G.S. MEAN SEA LEVEL DATUM.

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

EARTH EXCAVATION AND BACKFILL FOR PROPOSED CURB AND GUTTERS AND DRIVEWAY PAVEMENTS SHALL BE INCLUDED IN THE UNIT COST OF THE VARIOUS ITEMS.

AGGREGATE BASE COURSE, TYPE B OR AGGREGATE SHOULDERS, TYPE B SHALL BE REQUIRED FOR ALL GRANULAR CONSTRUCTION OF SIDE ROADS, ENTRANCES, AND MAILBOX TURNOUTS, WHETHER OR NOT PORTIONS OF THE SURFACES THUS CONSTRUCTED ARE TO BE COVERED WITH A BITUMINOUS SURFACE, EXCEPT WHERE NOTED DIFFERENTLY ON THE PLANS.

THE MATERIAL USED FOR CONSTRUCTION OF PERMANENT AGGREGATE DRIVEWAYS SHALL BE GRAVEL OR CRUSHED STONE, AS DIRECTED BY THE ENGINEER, TO REPLACE IN KIND THE EXISTING AGGREGATE DRIVEWAYS. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR THIS REQUIREMENT BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE PAY ITEM FOR THE AGGREGATE AS SPECIFIED ON THE PLANS.

POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT) RATES

SURFACE TYPE	ESTIMATED TRUCK APPLICATION RATE	RESIDUAL RATE
MILLED (HMA OR PCC)	0.10 GAL/SY (0.0004 TON/SY)	0.05 GAL/SY
EXISTING PAVEMENT	0.05 GAL/SY (0.00022 TON/SY)	0.025 GAL/SY
FOG COAT (BETWEEN LIFTS)	0.05 GAL/SY (0.00022 TON/SY)	0.025 GAL/SY
GRANULAR BASE		0.50 GAL/SY

NOTE: ESTIMATED TRUCK APPLICATION RATE IS USED FOR ESTIMATING QUANTITIES.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE(S):	1.5" SURFACE COURSE	2.5" BINDER
RAP % (MAX):	10%	10%
AC/PG:	POLYMER SBS OR SBR PG 64-28	POLYMER SBS OR SBR PG 64-28
DESIGN AIR VOIDS:	4.0% @ N = 50	4.0% @ N = 50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5	IL 19.0
FRICTION AGGREGATE	MIX C	N/A

NOTES: INDIVIDUAL LIFT THICKNESS OF EACH MIX TYPE WILL BE NO LESS THAN 3 TIMES NOMINAL MAXIMUM AGGREGATE SIZE AND NO MORE THAN 6 TIMES NOMINAL MAXIMUM AGGREGATE SIZE.

CONTINUOUS PAVING OPERATIONS ON THE MAIN ROADWAY SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THE HOT-MIX ASPHALT SURFACE. NO INTERRUPTIONS FOR SIDE ROADS, ENTRANCES, TURN LANES, ETC. WILL BE ALLOWED.

WHEN INSTALLING RIGHT-OF-WAY MAKERS, CARE SHALL BE TAKEN TO NOT DISTURB ANY EXISTING PROPERTY/RIGHT-OF-WAY PINS. IF A PROPERTY/RIGHT-OF-WAY PIN IS FOUND AT THE LOCATION OF A PROPOSED RIGHT-OF-WAY MARKER, THE MARKER SHALL BE PLACED ONE (1) FOOT IN FRONT OF THE PIN.

ADD THE FOLLOWING SENTENCE TO THE END OF PARAGRAPH 670.02 (I) AND 670.04 (E): ALL OF THE TELEPHONE LINES PROVIDED SHALL HAVE UNPUBLISHED NUMBERS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

HOT-MIX ASPHALT	112.5 LBS/SQ YD/INCH
NITROGEN FERTILIZER NUTRIENTS	90 LB/ACRE
PHOSPHORUS FERTILIZER NUTRIENTS	90 LB/ACRE
POTASSIUM FERTILIZER NUTRIENTS	90 LB/ACRE

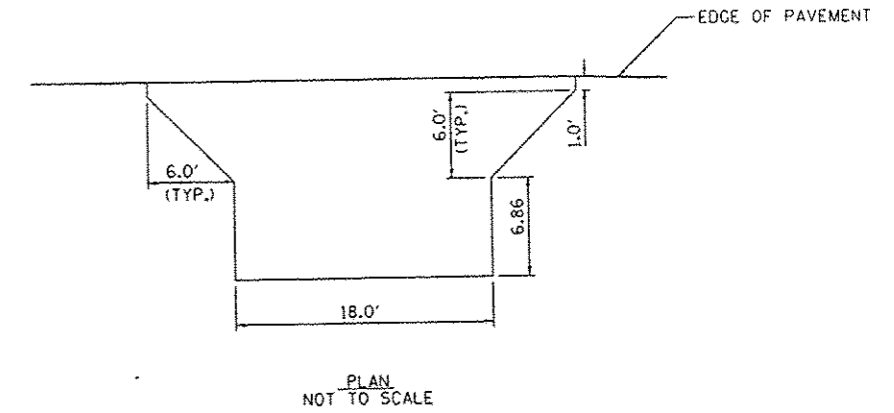
ALL EXISTING SURROUNDING AREA AND PROPERTY SHALL BE PROTECTED FROM DAMAGE AND LEFT UNDAMAGED BY THE OPERATION OF THE CONTRACTOR. ANY OF THE SURROUNDING PROPERTY DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO AN EQUAL OR BETTER CONDITION THAN WHAT EXISTED PRIOR TO CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.

EROSION CONTROL IS A REQUIREMENT OF THIS PROJECT. ANY FINES OR PENALTIES LEVIED AGAINST THIS PROJECT FOR NONCOMPLIANCE WILL BE BORNE SOLELY BY THE CONTRACTOR.

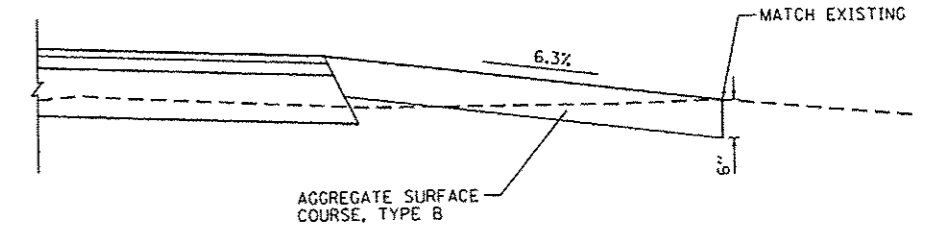
PERIMETER EROSION BARRIER, TEMPORARY DITCH CHECKS, AND OTHER EROSION CONTROL ITEMS SHALL BE INSPECTED BY THE CONTRACTOR AFTER EACH RAIN EVENT AND REPAIRS SHALL BE MADE BY THE CONTRACTOR AS NEEDED.

EARTHWORK BALANCE TABLE				
LOCATION	EARTH EXCAVATION	EXCAVATION ADJUSTED FOR STRUCTURE EX & SHRINKAGE (25%)	EMBANKMENT (FILL)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
STA. 107+47.00 TO STA. 108+99.95	133.95	100.46	134.00	-33.53
BRIDGE OMISSION	0.00	0.00	50.00	-50.00
STA. 109+68.12 TO STA. 112+44.00	55.19	41.39	320.12	-278.72
TOTAL	189.14	141.86	504.11	-362.26

TOTAL EARTHWORK	
EARTH EXCAVATION	190.00 CU YD
FURNISHED EXCAVATION	365.00 CU YD

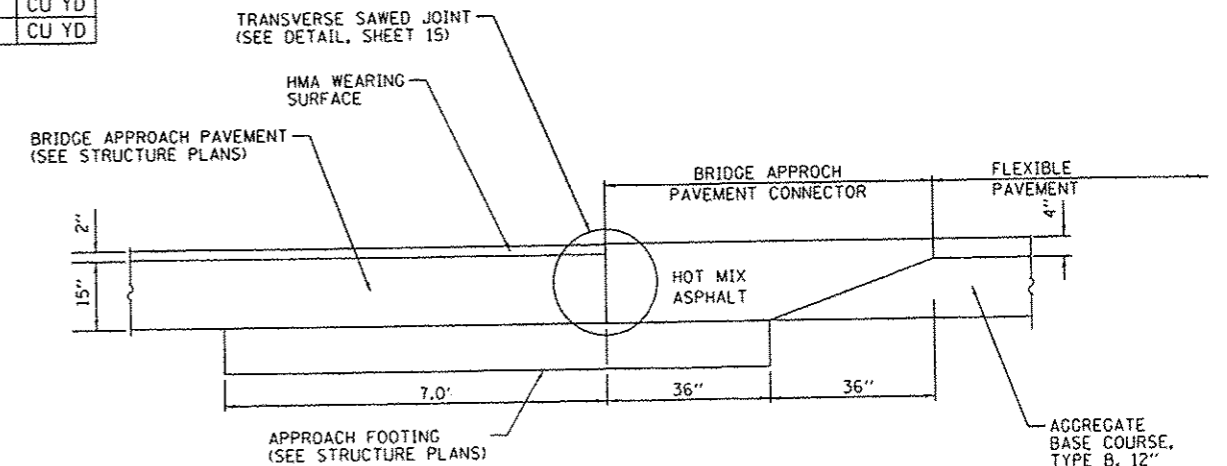


PLAN NOT TO SCALE



SECTION NOT TO SCALE

ENTRANCE DETAIL
STA. 111+80.00, RT

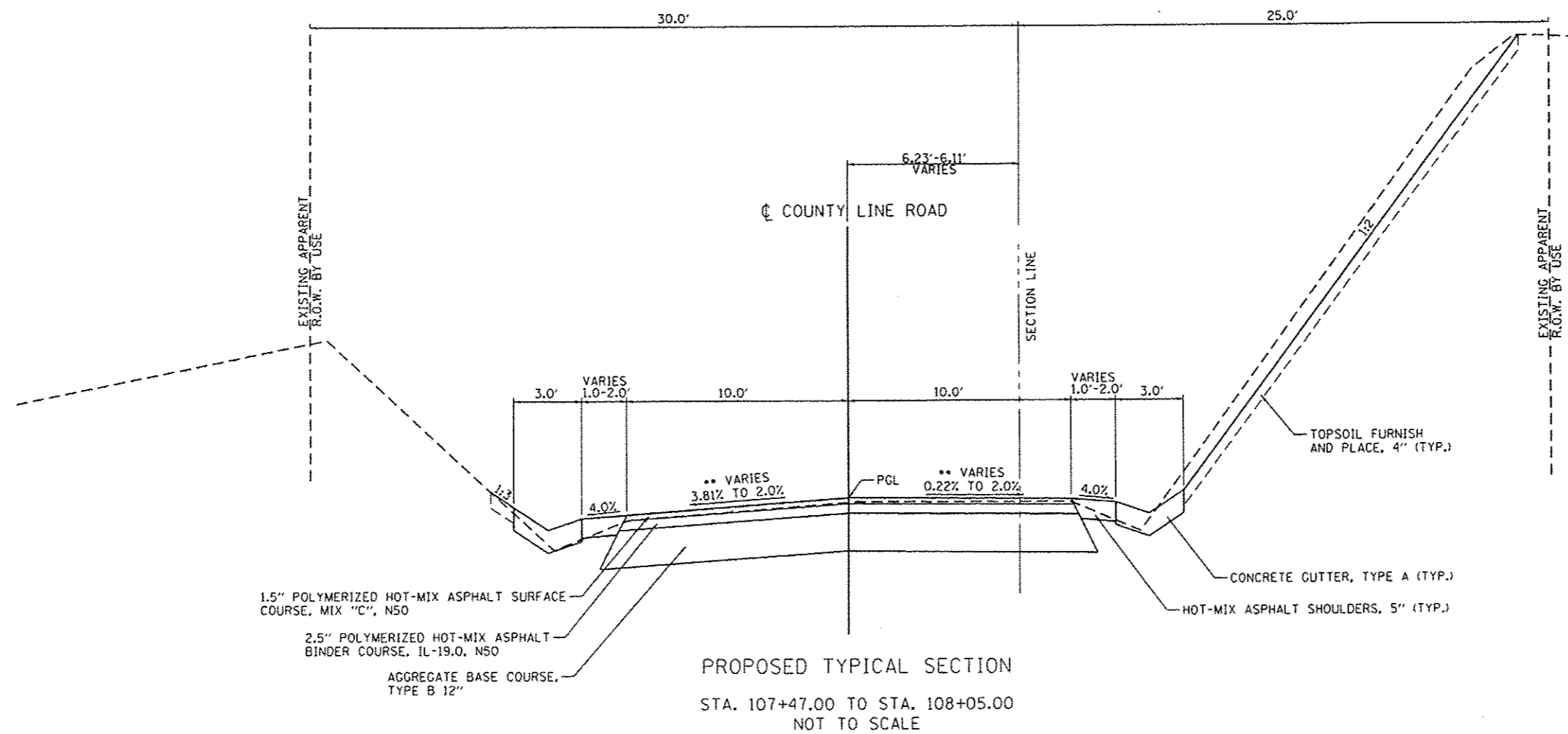
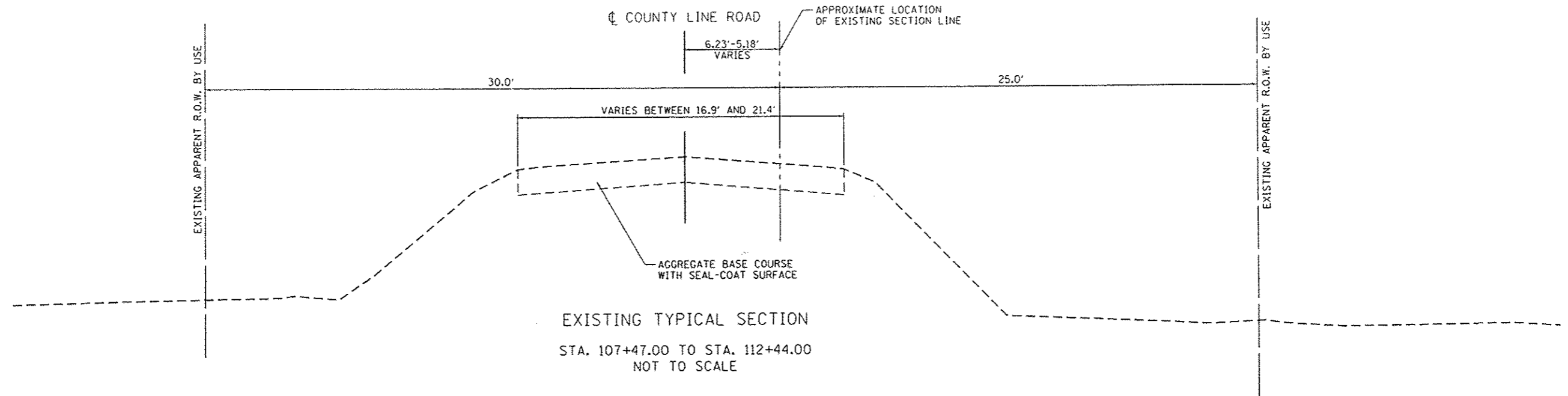


BRIDGE APPROACH PAVEMENT CONNECTOR

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
ITEM CODE	ITEM	UNIT	TOTAL QUANTITY	80/20 (FED/STATE)	80/20 (FED/STATE)
				ROADWAY 0004	SN 048-6052 0011
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	38	38	
20101000	TEMPORARY FENCE	FOOT	261	261	
20200100	EARTH EXCAVATION	CU YD	190	190	
20400800	FURNISHED EXCAVATION	CU YD	365	365	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1417	1417	
21400100	GRADING AND SHAPING DITCHES	FOOT	94	94	
25000300	SEEDING, CLASS 3	ACRE	0.5	0.5	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	28	28	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	28	28	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	28	28	
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1417	1417	
28000305	TEMPORARY DITCH CHECKS	FOOT	250	250	
28000400	PERIMETER EROSION BARRIER	FOOT	447	447	
28100105	STONE RIPRAP, CLASS A3	SQ YD	8	8	
28100107	STONE RIPRAP, CLASS A4	SQ YD	382		382
28200200	FILTER FABRIC	SQ YD	390	8	382
35102400	AGGREGATE BASE COURSE, TYPE B 12"	SQ YD	854	854	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	12	12	
40600115	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	GALLON	468	468	
40603230	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	114	114	
40603510	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	105	68	37
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	32	32	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	132	132	
48203017	HOT-MIX ASPHALT SHOULDERS, 5"	SQ YD	87	87	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200100	STRUCTURE EXCAVATION	CU YD	112		112
50300225	CONCRETE STRUCTURES	CU YD	36.9		36.9
50300255	CONCRETE SUPERSTRUCTURE	CU YD	69.6		69.6
50300280	CONCRETE ENCASMENT	CU YD	2.8		2.8
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1588		1588

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
ITEM CODE	ITEM	UNIT	TOTAL QUANTITY	80/20 (FED/STATE)	80/20 (FED/STATE)
				ROADWAY 0004	SN 048-6052 0011
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	21280		21280
50901050	STEEL RAILING, TYPE SM	FOOT	138		138
51201600	FURNISHING STEEL PILES HP12X53	FOOT	423		423
51202305	DRIVING PILES	FOOT	423		423
51203600	TEST PILE STEEL HP12X53	EACH	1		1
51204650	PILE SHOES	EACH	8		8
51500100	NAME PLATES	EACH	1		1
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	179		179
58700300	CONCRETE SEALER	SQ FT	397		397
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	11.2	11.2	
60802500	CONCRETE GUTTER, TYPE A	FOOT	82	82	
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	162.5	162.5	
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
66500105	WOVEN WIRE FENCE, 4'	FOOT	98	98	
68800105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	4	4	
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1	1	
67100100	MOBILIZATION	L SUM	1	1	
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1	
78200410	GUARDRAIL MARKERS, TYPE A	EACH	11	11	
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
X6850202	WOVEN WIRE FENCE REMOVAL	FOOT	114	114	
X6650206	WOVEN WIRE FENCE TO BE REMOVED AND RE-ERECTED	FOOT	242	242	
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	57	57	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	104		104
X586000	Granular backfill for structures	CU YD	37		37

△ SPECIALTY ITEMS



••CROSS SLOPE TRANSITIONS

LEFT SIDE
STA. 107+47.00 TO STA. 107+97.00
STA. 112+00.00 TO STA. 112+44.00

RIGHT SIDE
STA. 107+47.00 TO STA. 107+97.00
STA. 112+00.00 TO STA. 112+44.00

- NOTES:
1. GUARDRAIL AGGREGATE EROSION CONTROL SOUTH SIDE OF STRUCTURE. AGGREGATE SHOULDERS, TYPE B NORTH SIDE OF STRUCTURE.
 2. GUARDRAIL LIMITS- STA. 108+06.80 TO STA. 108+99.95 AND STA. 109+68.12 TO STA. 111+86.27, LT. STA. 108+06.80 TO STA. 108+99.95 AND STA. 109+68.12 TO STA. 110+98.77, RT.
 3. AGGREGATE SHOULDER WIDTH VARIES BEHIND GUARDRAIL-SEE PLAN AND PROFILE AND CROSS SECTIONS.

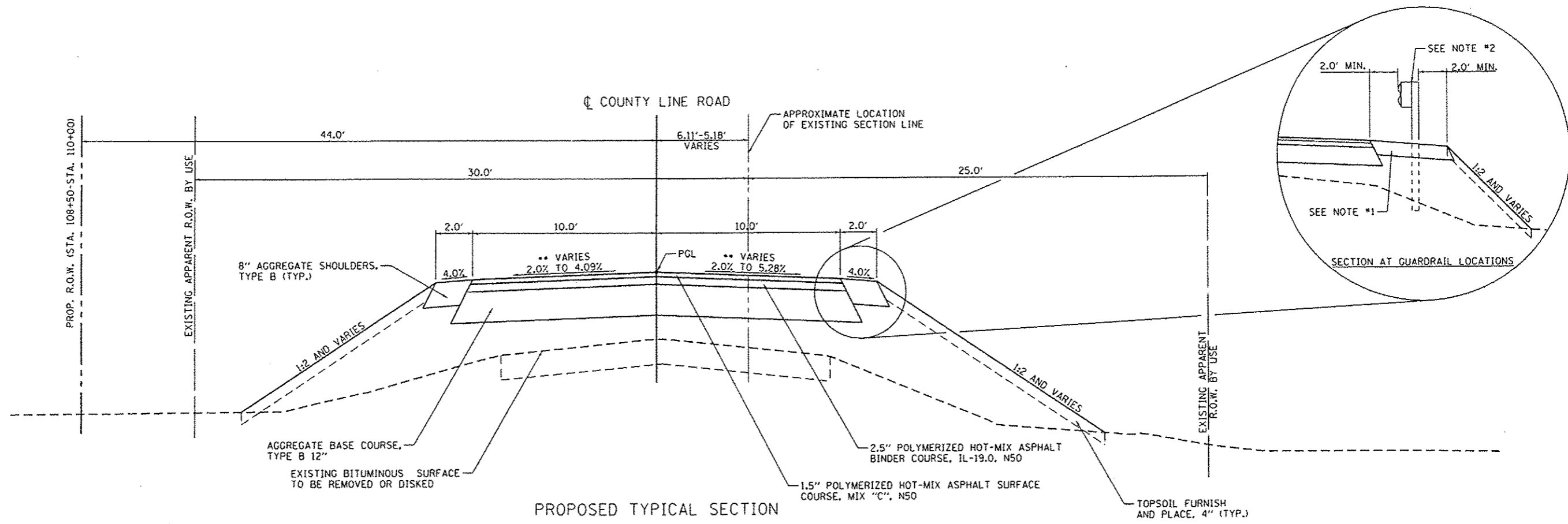
FILE NAME *	USER NAME *	DESIGNED -	REVISED -
S:\237\2012\23712000.00 County Line Road	bathier	Structure Replacement\CAADD\CAOD Sheets\0	Structure Replacement\CAADD\CAOD Sheets\0
MAURER-STUTZ	ENGINEERS SURVEYORS	CHECKED -	REVISED -
		DATE -	REVISED -



CITY OF GALESBURG

COUNTY LINE ROAD OVER TRIBUTARY TO CEDAR CREEK			
TYPICAL SECTIONS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6779	11-00101-04-BR	KNOX	30	4
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
CONTRACT NO. 89611				



PROPOSED TYPICAL SECTION
 STA. 108+05.00 TO STA. 112+44.00
 NOT TO SCALE

BRIDGE OMISSION
 STA. 108+99.95 TO STA. 109+68.12

NOTES:

1. GUARDRAIL AGGREGATE EROSION CONTROL SOUTH SIDE OF STRUCTURE. AGGREGATE SHOULDERS, TYPE B NORTH SIDE OF STRUCTURE.
2. GUARDRAIL LIMITS- STA. 108+06.80 TO STA. 108+99.95 AND STA. 109+68.12 TO STA. 111+86.27, L.T. STA. 108+06.80 TO STA. 108+99.95 AND STA. 109+68.12 TO STA. 110+98.77, RT.
3. AGGREGATE SHOULDER WIDTH VARIES BEHIND GUARDRAIL-SEE PLAN AND PROFILE AND CROSS SECTIONS.

••CROSS SLOPE TRANSITIONS
 LEFT SIDE
 STA. 107+47.00 TO STA. 107+97.00
 STA. 112+00.00 TO STA. 112+44.00
 RIGHT SIDE
 STA. 107+47.00 TO STA. 107+97.00
 STA. 112+00.00 TO STA. 112+44.00

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)				
LOCATION			UNIT	REMARKS
109+55.71	RT		10	
109+61.84	RT		10	
109+78.14	RT		6	
109+80.37	RT		6	
109+82.33	RT		6	
TOTAL			38.0	

20101000 TEMPORARY FENCE				
LOCATION			FOOT	REMARKS
107+49.84	TO	109+88.67	RT	
TOTAL			260.97	
TOTAL			261.0	ROUND TO 261

20200100 EARTH EXCAVATION				
LOCATION			CU YD	REMARKS
ENTIRE PROJECT			190.00	SEE EARTHWORK BALANCE TABLE
TOTAL			190.0	

20400800 FURNISHED EXCAVATION				
LOCATION			CU YD	REMARKS
ENTIRE PROJECT			365.00	SEE EARTHWORK BALANCE TABLE
TOTAL			365.0	

21101615 TOPSOIL FURNISH AND PLACE, 4"				
LOCATION			SQ YD	REMARKS
107+00.00	TO	112+44.00	LT	536.87
107+00.00	TO	112+44.00	RT	879.68
TOTAL			1416.5	ROUND TO 1417

21400100 GRADING AND SHAPING DITCHES				
LOCATION			FOOT	REMARKS
107+00.00	TO	107+47.00	LT	47
107+00.00	TO	107+47.00	RT	47
TOTAL			94.0	

25000300 SEEDING, CLASS 3				
LOCATION			ACRE	REMARKS
107+00.00	TO	112+44.00	LT	0.11
107+00.00	TO	112+44.00	RT	0.18
TOTAL			0.29	ROUND TO 0.5 ACRE

25000400 NITROGEN FERTILIZER NUTRIENT				
LOCATION			POUND	REMARKS
107+00.00	TO	112+44.00	LT	0
107+00.00	TO	112+44.00	RT	17.1
TOTAL			27.9	ROUND TO 28

25000500 PHOSPHORUS FERTILIZER NUTRIENT				
LOCATION			POUND	REMARKS
107+00.00	TO	112+44.00	LT	10.8
107+00.00	TO	112+44.00	RT	17.1
TOTAL			27.9	ROUND TO 28

25000600 POTASSIUM FERTILIZER NUTRIENT				
LOCATION			POUND	REMARKS
107+00.00	TO	112+44.00	LT	10.8
107+00.00	TO	112+44.00	RT	17.1
TOTAL			27.9	ROUND TO 28

25100635 HEAVY DUTY EROSION CONTROL BLANKET				
LOCATION			SQ YD	REMARKS
107+00.00	TO	112+44.00	LT	536.8667
107+00.00	TO	112+44.00	RT	879.6822
TOTAL			1416.5	ROUND TO 1417

28000305 TEMPORARY DITCH CHECKS				
LOCATION			FOOT	REMARKS
107+50.00	LT		10.0	
107+62.00	LT		10.0	
107+74.00	LT		10.0	
107+86.00	LT		10.0	
107+98.00	LT		10.0	
107+50.00	RT		10.0	
107+62.00	RT		10.0	
107+74.00	RT		10.0	
107+86.00	RT		10.0	
107+98.00	RT		10.0	
108+10.00	RT		10.0	
108+22.00	RT		10.0	
108+34.00	RT		10.0	
108+46.00	RT		10.0	
111+50.00	LT		10.0	
111+70.00	LT		10.0	
112+00.00	LT		10.0	
112+08.00	LT		10.0	
112+16.00	LT		10.0	
112+24.00	LT		10.0	
112+32.00	LT		10.0	
112+40.00	LT		10.0	
112+00.00	RT		10.0	
112+20.00	RT		10.0	
112+40.00	RT		10.0	
TOTAL			250.0	

28000400 PERIMETER EROSION BARRIER				
LOCATION			FOOT	REMARKS
108+25.00, 31'	TO	108+90.00, 40'	LT	66
109+78.00, 36'	TO	111+50.00, 21'	LT	175
109+75.00, 44'	TO	111+71.00, 25'	RT	206
TOTAL			447.0	

28100105 STONE RIPRAP, CLASS A3				
LOCATION			SQ YD	REMARKS
108+21.03	LT		4	
108+55.91	RT		4	
TOTAL			8.0	

28200200 FILTER FABRIC				
LOCATION			SQ YD	REMARKS
108+21.03	LT		4	
108+55.91	RT		4	
TOTAL			8.0	

35102400 AGGREGATE BASE COURSE, TYPE B 12"				
LOCATION			SQ YD	REMARKS
107+47.00	TO	108+64.95	278.81	
110+03.12	TO	112+44.00	574.96	
TOTAL			853.8	ROUND TO 854

40200800 AGGREGATE SURFACE COURSE, TYPE B				
LOCATION			TON	REMARKS
111+80.00	RT		11.29	
TOTAL			11.3	ROUND TO 12

40600115 POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)				
LOCATION			GALLON	REMARKS
107+47.00	TO	108+64.95	139.41	AGG. BASE CSE
110+03.12	TO	112+44.00	287.48	AGG. BASE CSE
107+47.00	TO	108+64.95	13.28	FOG ON NEW BINDER
110+03.12	TO	112+44.00	27.41	FOG ON NEW BINDER
TOTAL			467.6	ROUND TO 468

40603230 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50				
LOCATION			TON	REMARKS
107+47.00	TO	108+64.95	37.20	
110+03.12	TO	112+44.00	76.75	
TOTAL			113.9	ROUND TO 114

40603510 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50				
LOCATION			TON	REMARKS
107+47.00	TO	108+64.95	22.09	
110+03.12	TO	112+44.00	45.58	
TOTAL			67.67	ROUND TO 68

42001430 BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)				
LOCATION			SQ YD	REMARKS
108+64.95	TO	108+70.95	16	
109+97.12	TO	110+03.12	16	
TOTAL			32.0	

48101200 AGGREGATE SHOULDERS, TYPE B				
LOCATION			TON	REMARKS
109+68.12	TO	112+44.00	LT 75.8	
109+68.12	TO	111+67.00	RT 50.8	
111+94.00	TO	112+44.00	RT 5.2	
TOTAL			131.8	ROUND TO 132

48203017 HOT-MIX ASPHALT SHOULDERS, 5"				
LOCATION			SQ YD	REMARKS
107+47.00	TO	108+30.34	LT 39.88	
107+47.00	TO	108+41.00	RT 46.74	
TOTAL			86.6	ROUND TO 87

60600095 CLASS SI CONCRETE (OUTLET)				
LOCATION			CU YD	REMARKS
107+70.14	TO	108+17.52	LT 0 5.58	
108+05.00	TO	108+52.41	RT 0 5.58	
TOTAL			11.2	

60602500 CONCRETE GUTTER, TYPE A				
LOCATION			FOOT	REMARKS
107+47.00	TO	107+70.14	LT 23.2	
107+47.00	TO	108+05.00	RT 58.34	
TOTAL			81.5	ROUND TO 82

63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS				
LOCATION			FOOT	REMARKS
110+11.27	TO	110+48.77	RT 37.5	
110+11+27	TO	111+36.27	LT 125	
TOTAL			162.5	

63100087 TRAFFIC BARRIER TERMINAL, TYPE 6A				
LOCATION			EACH	REMARKS
108+56.80	TO	108+99.95	LT 1	
108+56.80	TO	108+99.95	RT 1	
109+68.12	TO	110+11.27	LT 1	
109+68.12	TO	110+11.27	RT 1	
TOTAL			4.0	

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT				
LOCATION			EACH	REMARKS
108+06.80	TO	108+56.80	LT 1	
108+06.80	TO	108+56.80	RT 1	
111+36.27	TO	111+86.27	LT 1	
110+48.77	TO	110+98.77	RT 1	
TOTAL			4.0	1.5' DEEP CUT

66500105 WOVEN WIRE FENCE, 4'				
LOCATION			FOOT	REMARKS
107+99.65, 23.91'	TO	108+90.96, 44.50'	LT 95.35	
107+49.84, 29.63'	TO	109+88.67, 31.76'	RT 2.00	2' SHORTAGE FROM WWF TO BE REM. AND RE-ERECTED
TOTAL			97.4	ROUND TO 98

66600105 FURNISHING AND ERECTING RIGHT OF WAY MARKERS				
LOCATION			EACH	REMARKS
108+00.00		23.91	LT 1	
108+50.00		44	LT 1	
110+00.00		44	LT 1	
110+75.00		24.45	LT 1	
TOTAL			4.0	

66700205 PERMANENT SURVEY MARKERS, TYPE I				
LOCATION			EACH	REMARKS
BRIDGE WINGWALL			1.00	
TOTAL			1.0	

67100100 MOBILIZATION				
LOCATION			L SUM	REMARKS
ENTIRE PROJECT			1.00	
TOTAL			1.0	

70101830 TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21				
LOCATION			L SUM	REMARKS
ENTIRE PROJECT			1.00	
TOTAL			1.0	

78200410 GUARDRAIL MARKERS, TYPE A				
LOCATION			EACH	REMARKS
108+06.80	TO	110+98.77	RT 5	
108+06.80	TO	111+48.77	LT 0 6	
TOTAL			11.0	

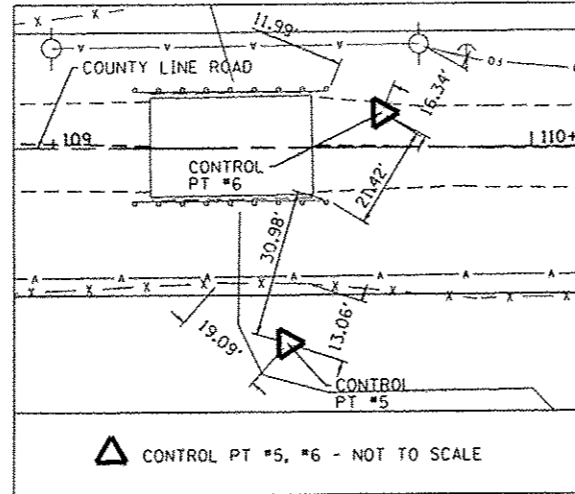
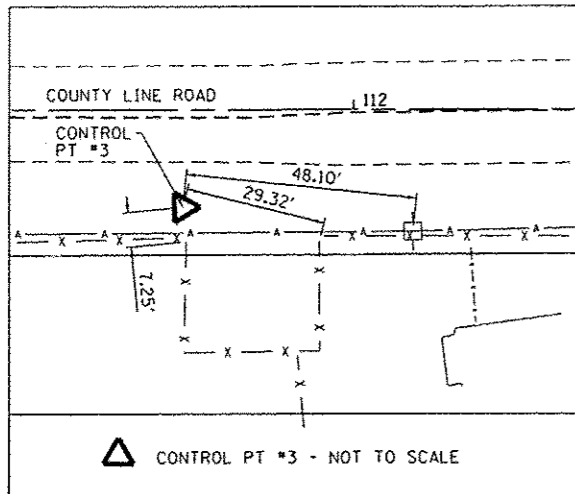
78201000 TERMINAL MARKER - DIRECT APPLIED				
LOCATION			EACH	REMARKS
108+06.80	LT		1	
108+06.80	RT		1	
111+86.27	LT		1	
110+98.77	RT		1	
TOTAL			4.0	

X6650202 WOVEN WIRE FENCE REMOVAL				
LOCATION			FOOT	REMARKS
108+01.14, 23.08'	TO	109+14.73, 29.94'	LT 113.89	
TOTAL			113.9	ROUND TO 114

X6650206 WOVEN WIRE FENCE TO BE REMOVED AND RE-ERECTED				
LOCATION			FOOT	REMARKS
107+49.84, 29.63'	TO	109+88.67, 31.76'	RT 0 242	
TOTAL			242.0	

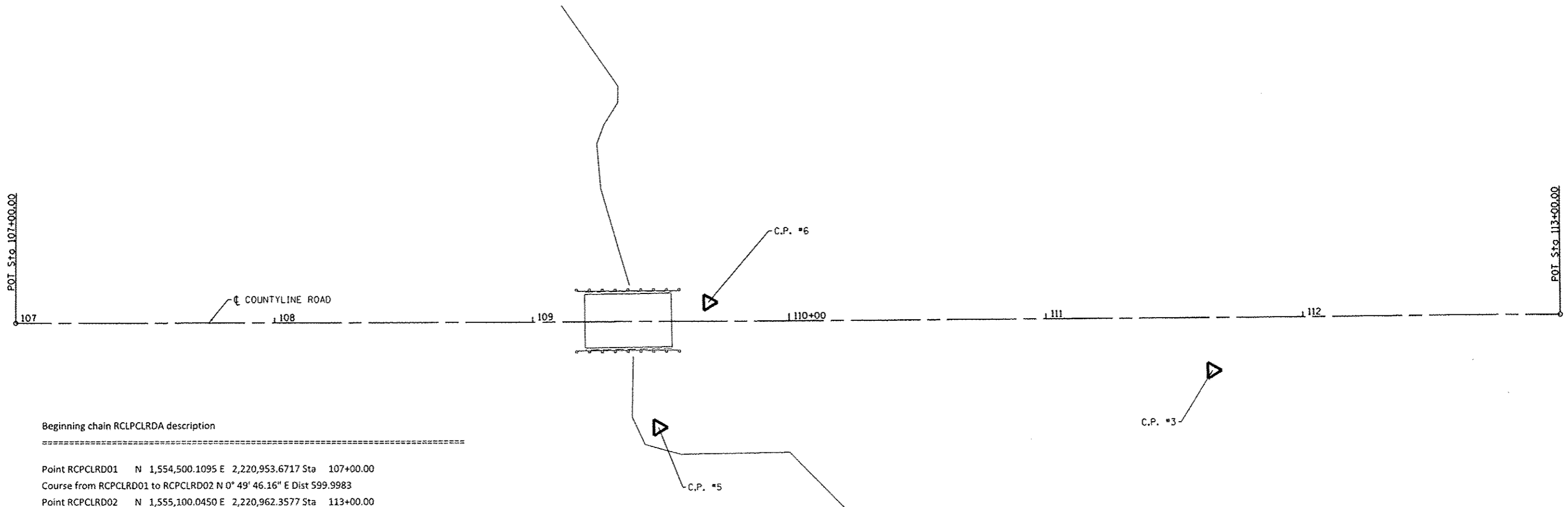
Z0001002 GUARDRAIL AGGREGATE EROSION CONTROL				
LOCATION			TON	REMARKS
108+05.00	TO	108+99.95	LT 0 28.23	
108+05.00	TO	108+99.95	RT 0 28.30	
TOTAL			56.5	ROUND TO 57

Z0013798 CONSTRUCTION LAYOUT				
LOCATION			L SUM	REMARKS
ENTIRE PROJECT			1.00	
TOTAL			1.0	



VERTICAL AND HORIZONTAL CONTROL POINTS						
C.P. #	NORTHING	EASTING	ELEVATION	CHAIN	STATION	OFFSET
3	1,554,964.337	2,220,980.779	730.507	RCLPCLRDA	111+64.57	20.4', RT
5	1,554,768.712	2,220,950.386	731.253	RCLPCLRDA	109+68.53	7.2', LT
6	1,554,748.275	2,220,998.160	725.299	RCLPCLRDA	109+48.78	40.9', RT

BENCHMARK:
TBM 401-RR SPIKE IN P.P. NORTH OF BRIDGE,
STA. 112+12.39, 25.53' RT, ELEV=734.53

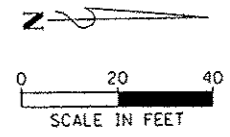


Beginning chain RCLPCLRDA description
=====

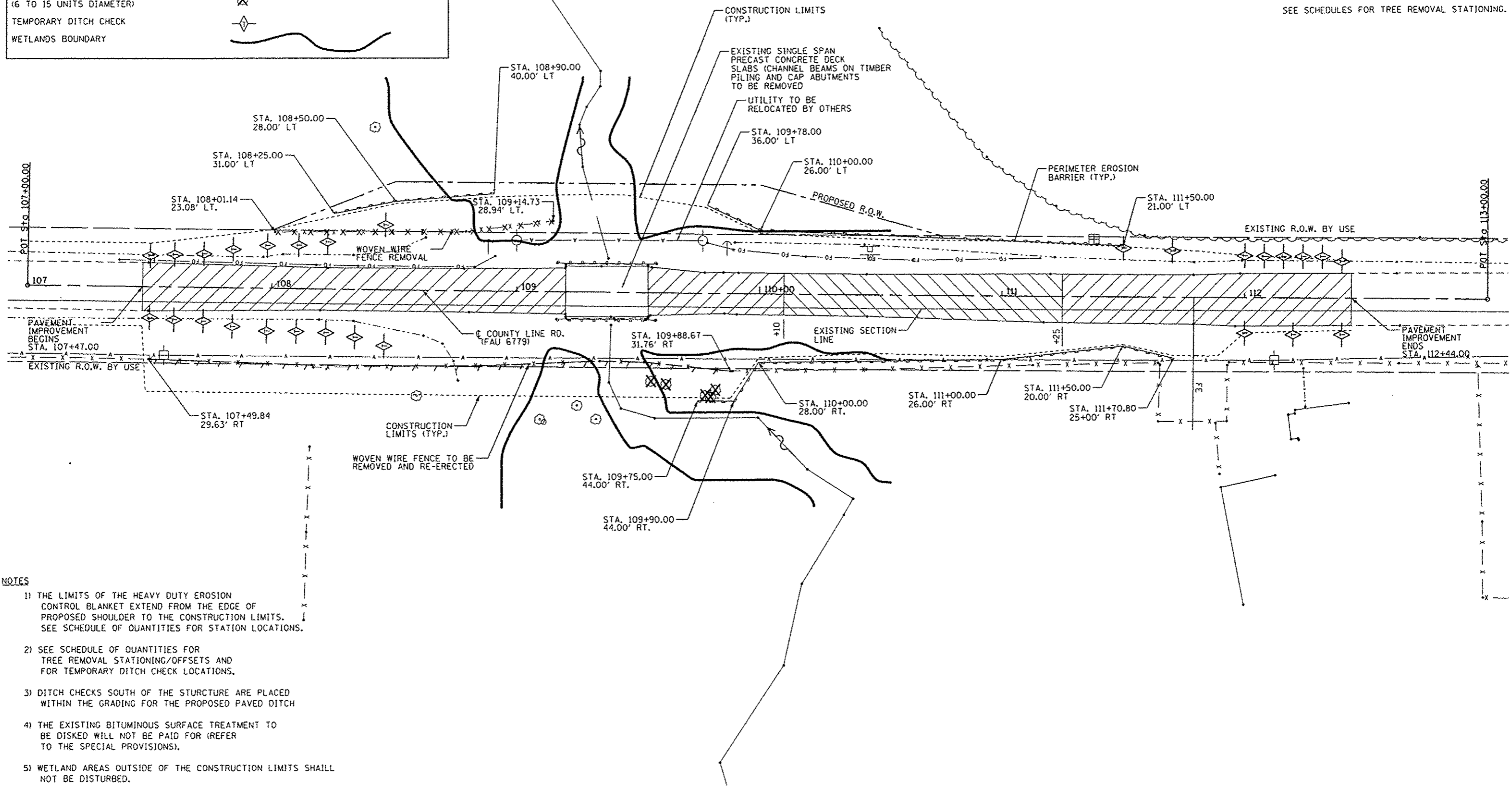
Point RCPCLRD01 N 1,554,500.1095 E 2,220,953.6717 Sta 107+00.00
Course from RCPCLRD01 to RCPCLRD02 N 0° 49' 46.16" E Dist 599.9983
Point RCPCLRD02 N 1,555,100.0450 E 2,220,962.3577 Sta 113+00.00
=====

Ending chain RCLPCLRDA description

LEGEND	
EXISTING BITUMINOUS SURFACE TO BE REMOVED (PAID FOR AS EARTH EXCAVATION)	
EXISTING BITUMINOUS SURFACE TO BE DISKED	
WOVEN WIRE FENCE TO BE REMOVED AND RE-ERECTED	
WOVEN WIRE FENCE REMOVAL	
PERIMETER EROSION BARRIER	
TREE REMOVAL (6 TO 15 UNITS DIAMETER)	
TEMPORARY DITCH CHECK	
WETLANDS BOUNDARY	



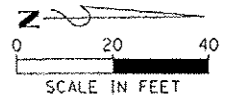
NOTE:
SEE SCHEDULES FOR TREE REMOVAL STATIONING.



- NOTES
- 1) THE LIMITS OF THE HEAVY DUTY EROSION CONTROL BLANKET EXTEND FROM THE EDGE OF PROPOSED SHOULDER TO THE CONSTRUCTION LIMITS. SEE SCHEDULE OF QUANTITIES FOR STATION LOCATIONS.
 - 2) SEE SCHEDULE OF QUANTITIES FOR TREE REMOVAL STATIONING/OFFSETS AND FOR TEMPORARY DITCH CHECK LOCATIONS.
 - 3) DITCH CHECKS SOUTH OF THE STRUCTURE ARE PLACED WITHIN THE GRADING FOR THE PROPOSED PAVED DITCH
 - 4) THE EXISTING BITUMINOUS SURFACE TREATMENT TO BE DISKED WILL NOT BE PAID FOR (REFER TO THE SPECIAL PROVISIONS).
 - 5) WETLAND AREAS OUTSIDE OF THE CONSTRUCTION LIMITS SHALL NOT BE DISTURBED.

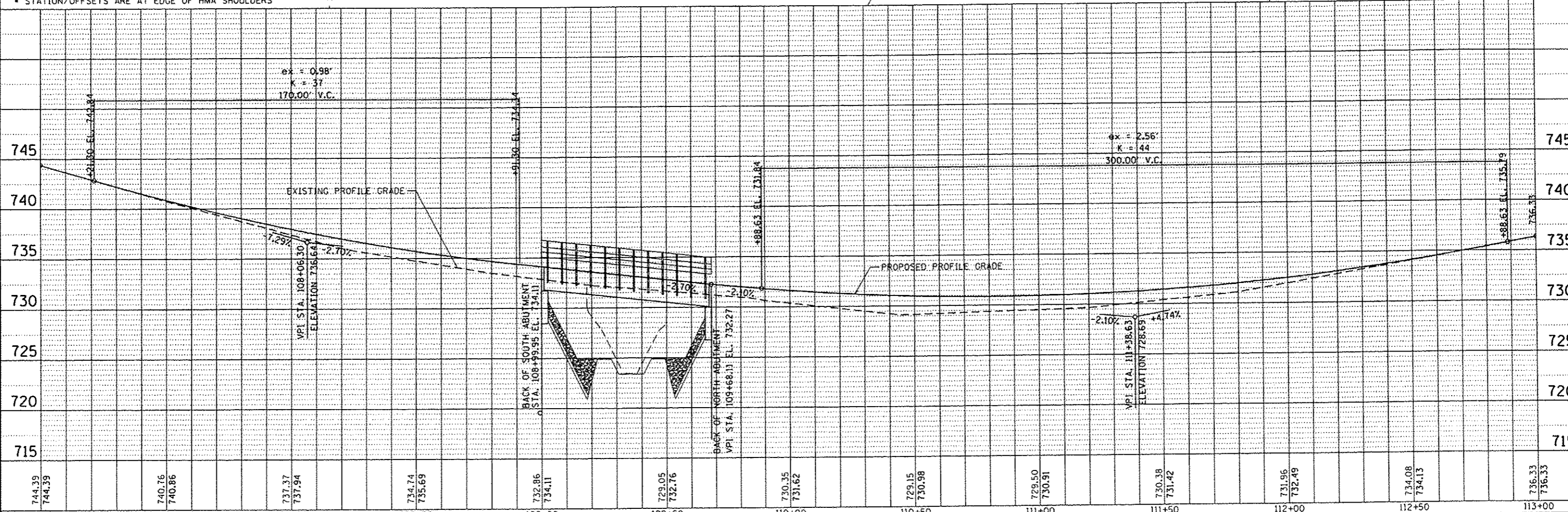
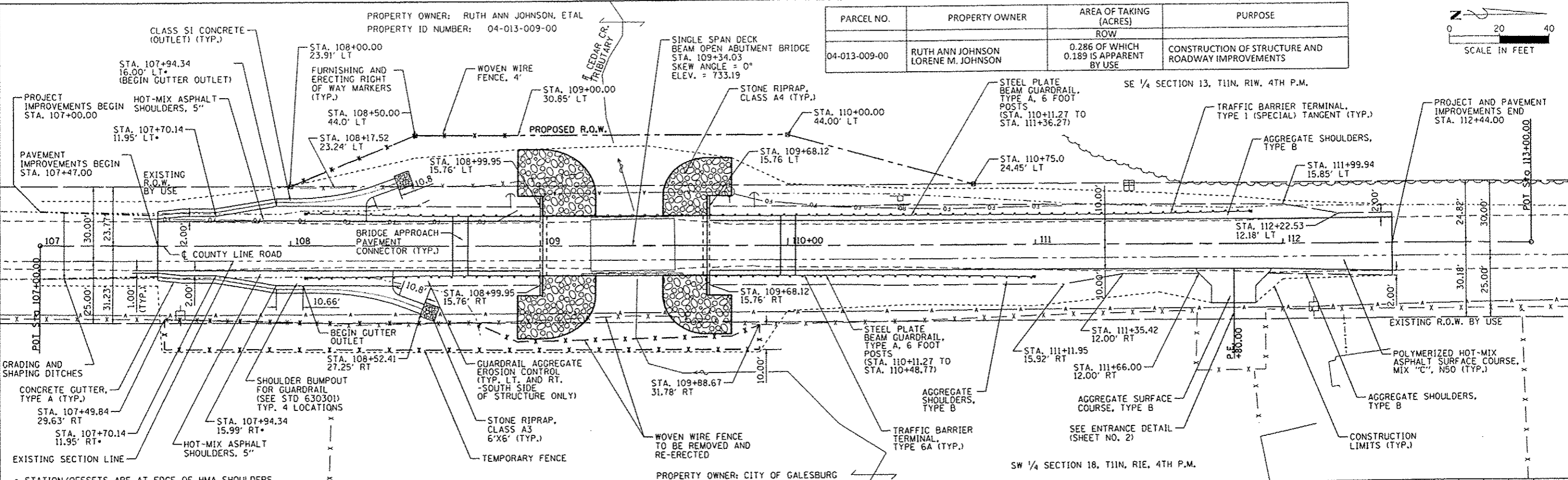
FILE NAME * S:\237\2012\23712008.00 \County Line Road	USER NAME * ulewis Structure Replacement\LEAD\CADD Sheets\08	DESIGNED - DRAWN - removal.dgn	REVISED - REVISED - REVISED - REVISED -	<p>CITY OF GALESBURG</p>	<p>COUNTY LINE ROAD OVER TRIBUTARY TO CEDAR CREEK REMOVAL AND EROSION CONTROL PLAN SHEET</p>			F.A.D. RTE. 6779	SECTION 11-00101-04-BR	COUNTY KNOX	TOTAL SHEETS 30	SHEET NO. 9
MAURER-STUTZ ENGINEERS SURVEYORS	PLOT SCALE * 10,0000' / in. PLOT DATE * 12/23/2013	CHECKED - DATE -	SCALE: SHEET NO. OF SHEETS STA. TO STA.		<p>CONTRACT NO. 89611</p>			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

PARCEL NO.	PROPERTY OWNER	AREA OF TAKING (ACRES)	PURPOSE
04-013-009-00	RUTH ANN JOHNSON LORENE M. JOHNSON	0.286 OF WHICH 0.189 IS APPARENT BY USE	CONSTRUCTION OF STRUCTURE AND ROADWAY IMPROVEMENTS



DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
DATE	
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DATE	
BY	
REVISIONS	
NO.	



FILE NAME: S:\237\2012\23712089.BR (County Line Road)	USER NAME: batherr	DESIGNED: [Signature]	REVISED: [Signature]	CITY OF GALESBURG	SECTION: 11-00101-04-BR	COUNTY: KNOX	TOTAL SHEETS: 30	SHEET NO.: 10
MAURER-STUTZ ENGINEERS SURVEYORS	STRUCTURE REPLACEMENT\CAAD\CADD SHEETS\DAE\CRAN\mipnpr.dgn	CHECKED: [Signature]	REVISED: [Signature]	CITY OF GALESBURG	SCALE: [Blank]	CONTRACT NO.: 89611	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	
PLOT SCALE: 1/8" = 1' / in.		PLOT DATE: 12/20/2013		SHEET NO. OF SHEETS STA. TO STA.				

Bench Mark - TBM 401 - RR Spike in P.P. north of bridge, 25.53' Rt. Sta. 112+12.39, Elev. 734.53.
 Existing Structure - S.M. 048-6002: Reconstructed in 1981. Structure is a single span bridge with precast concrete deck slabs (channel beams) on timber piling and caps. The bridge is 33'-11" (bk. to bk. abuts.) long and 22'-0" (out to out) wide. The structure is to be replaced during road closure.
 Salvage - None

INDEX OF SHEETS

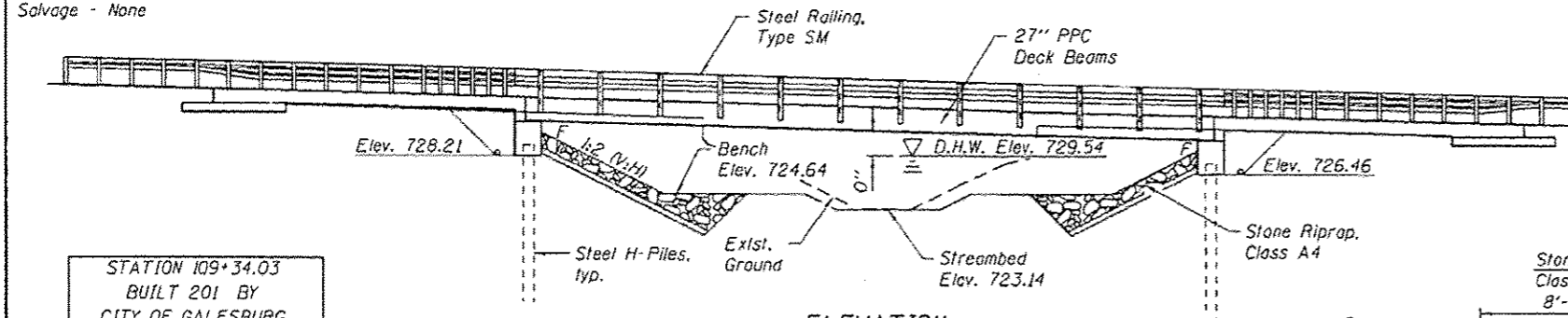
1. General Plan and Elevation
2. Superstructure
3. 27" x 36" PPC Deck Beam
4. 27" x 36" PPC Deck Beam Details
- 5-6. Bridge Approach Slab Details
7. Top of Approach Slab Elevations
8. Steel Railing, Type SM with Hot-Mix Asphalt Wearing Surface
9. South Abutment
10. North Abutment
11. HP Pile Details
12. Soil Boring Profile

GENERAL NOTES

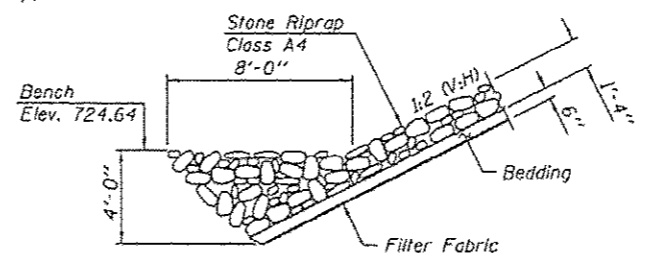
Reinforcement bars designated (E) shall be epoxy coated.
 Concrete sealer shall be applied to the exterior face and 9" in on the underside of the fascia beams.
 Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

TOTAL BILL OF MATERIAL

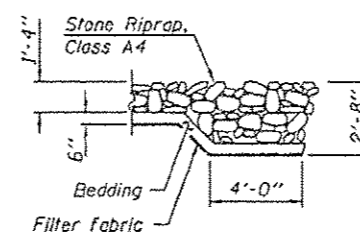
ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		382	382
Filter Fabric	Sq. Yd.		382	382
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		112	112
Concrete Structures	Cu. Yd.		36.9	36.9
Concrete Superstructure	Cu. Yd.	69.6		69.6
Concrete Encasement	Cu. Yd.		2.8	2.8
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1588		1588
Reinforcement Bars, Epoxy Coated	Pound	15590	5690	21280
Steel Railing, Type SM	Foot	136		136
Furnishing Steel Piles HP12x53	Foot		423	423
Driving Piles	Foot		423	423
Test Pile Steel HP12x53	Each		1	1
Pile Shoes	Each		8	8
Name Plates	Each	1		1
Waterproofing Membrane System	Sq. Yd.	179		179
Concrete Sealer	Sq. Ft.	397		397
Polymerized Hot-Mix Asphalt Surface Course, Mix "C", N50	Tons	37		37
Pipe Underdrains for Structures 4"	Foot		104	104
Granular Backfill for Structures	Cu. Yd.		37	37



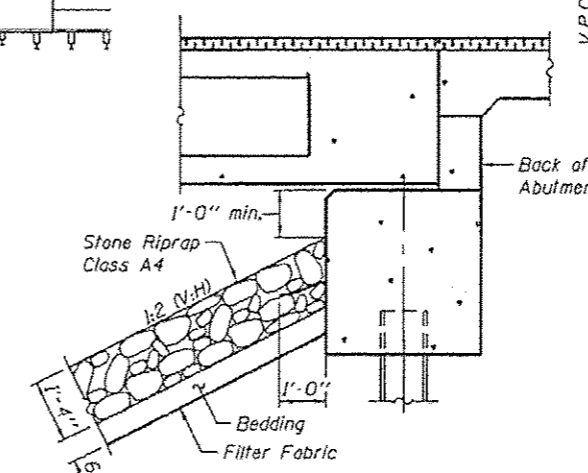
ELEVATION



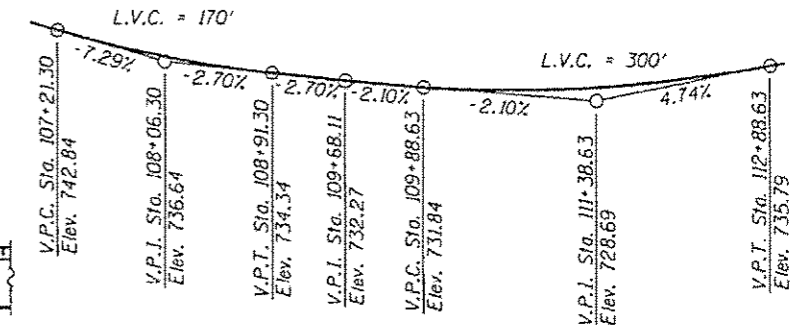
SECTION A-A



SECTION B-B



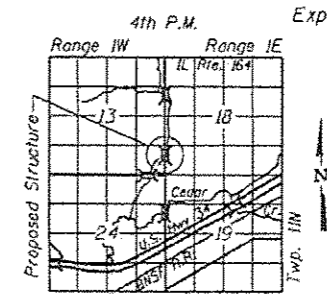
SECTION C-C



PROFILE GRADE

(along centerline)
 I certify that to the best of knowledge, information, and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Bridge Design Specifications.

Bryan A. Swanson
 Date Signed: 1-23-14
 Exp. Date: 11-30-14

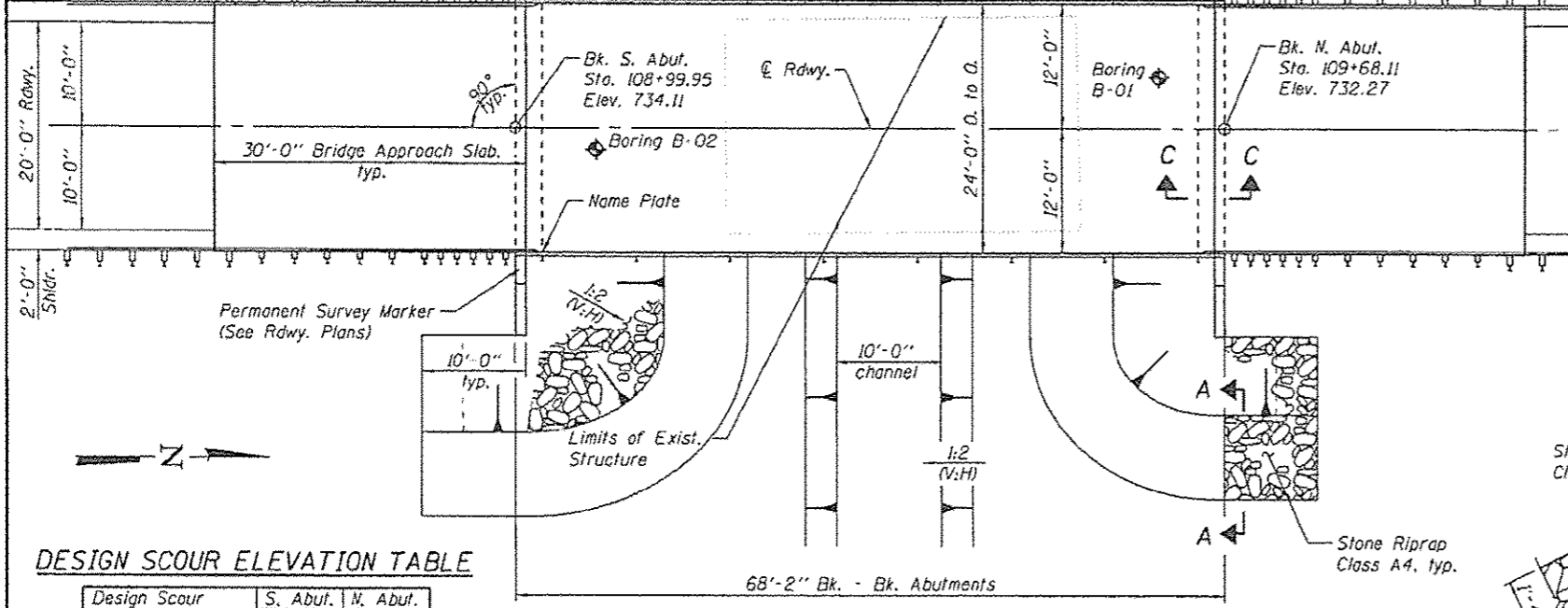


LOCATION SKETCH

GENERAL PLAN AND ELEVATION
 COUNTY LINE ROAD OVER
 TRIBUTARY TO CEDAR CREEK
 SEC. 11-00101-04-BR
 KNOX COUNTY
 STA. 109+34.03
 STRUCTURE NO. 048-6052

STATION 109+34.03
 BUILT 201 BY
 CITY OF GALESBURG
 F.A.U. RTE. 6779
 SEC. 11-00101-04-BR
 LOADING HL-93
 STR. NO. 048-6052
NAME PLATE
 See Std. 515001

Traffic Barrier Terminal
 Type 6A, Std. 631032, typ.



PLAN

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	S. Abut.	N. Abut.
	728.2	726.4

WATERWAY INFORMATION

Drainage Area = 6.6 Sq. Mi. Prop. Low Grade Elev. 730.87 @ Sta. 110+80.79

Flood	Freq. Yr.	C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater Et.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	10	1240	95/209	260	729.22	1.62	0.62	730.84	729.84
Base	20	1527	105/262	280	729.54	1.55	0.79	731.09	730.33
Max. Calc.	100	2350	118/408	320/204	730.32	1.34	1.53	731.66	731.85
	500	3200	118/581	338/302	730.99	1.26	1.31	732.25	732.30

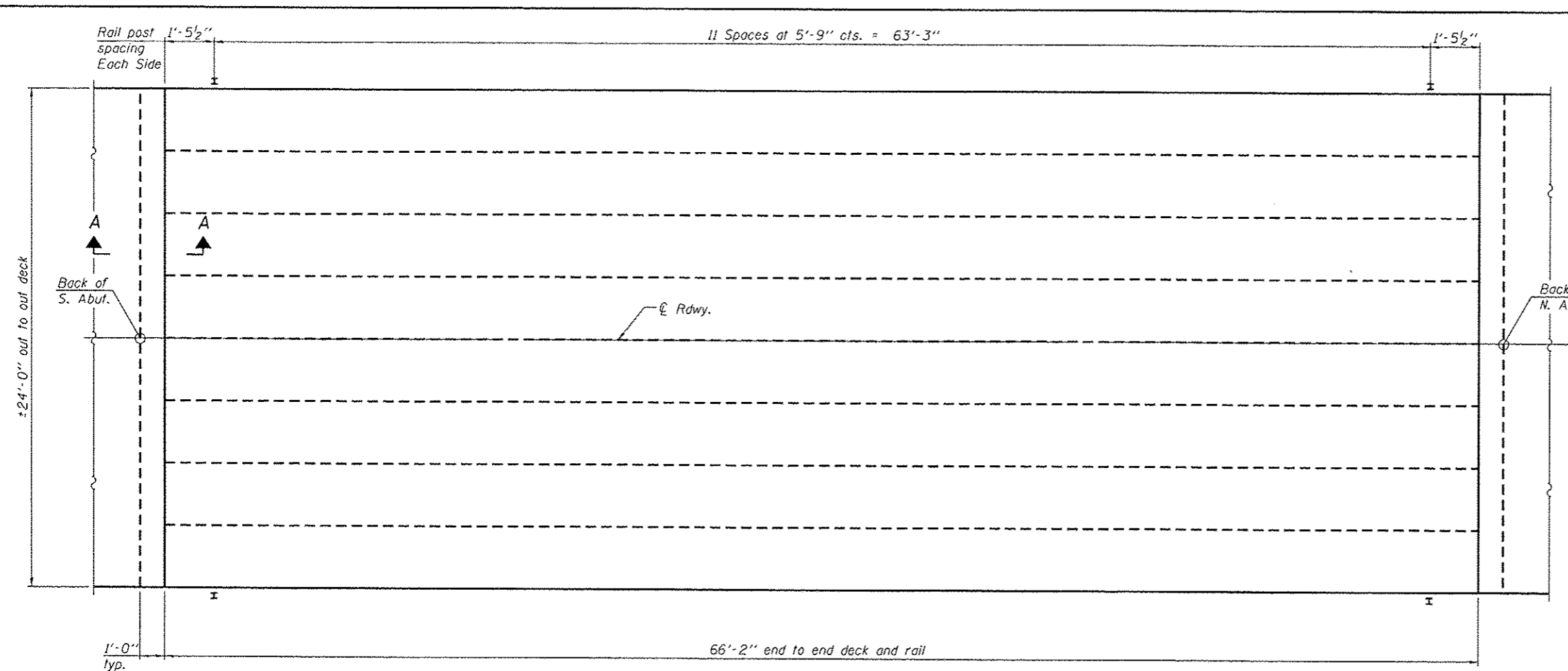
10-Year Velocity through Exist. Structure = 5.7 fps
 10-Year Velocity through Prop. Structure = 5.3 fps

LOADING HL-93
 Allow 50#/sq. ft. for future wearing surface.

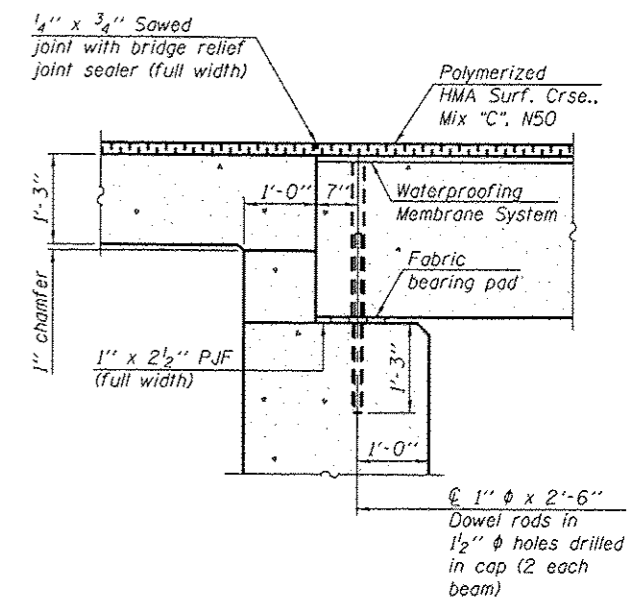
DESIGN SPECIFICATIONS
 2012 AASHTO LRFD Bridge Design Specifications

SEISMIC DATA
 Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.079
 Design Spectral Acceleration at 0.2 sec. ($S_{D0.2}$) = 0.120
 Soil Site Class = C

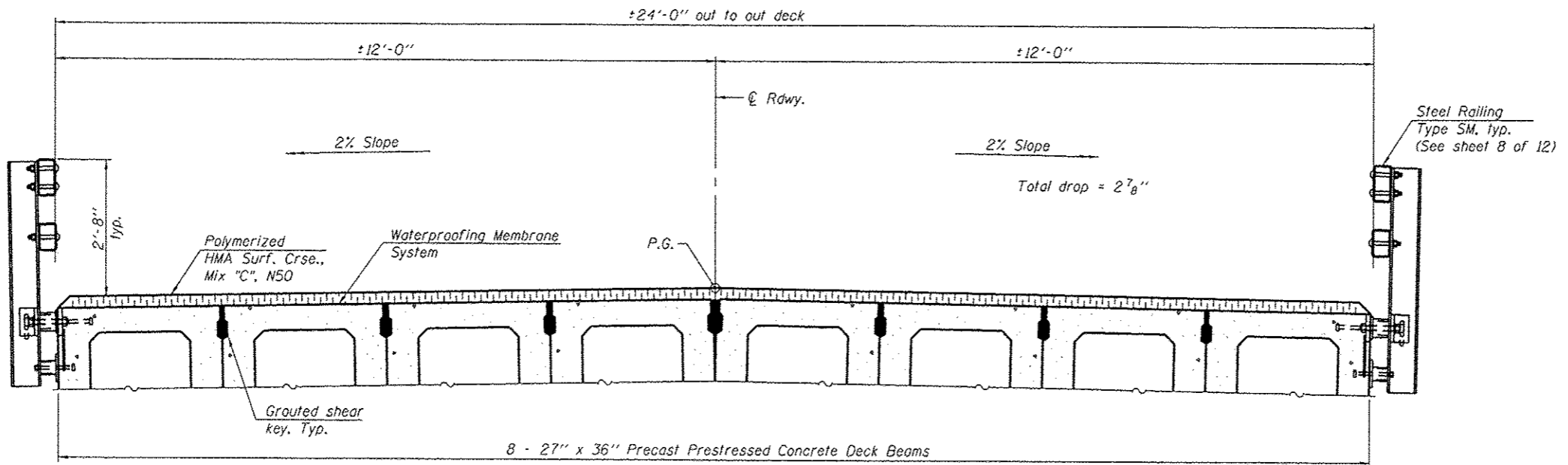
DESIGN STRESSES
FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
PRECAST PRESTRESSED UNITS
 $f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f_s = 270,000$ psi (1/2" Strands)
 $f_{si} = 201,960$ psi (1/2" Strands)



PLAN



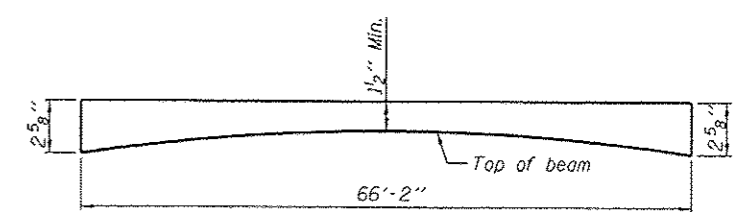
SECTION A-A
See sheet 4 of 12 for fabric bearing pad details.



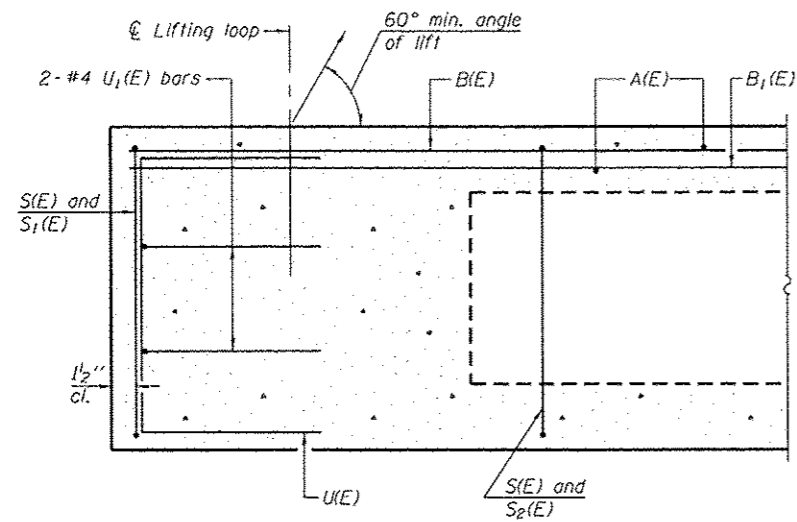
CROSS SECTION
(Looking North)

BILL OF MATERIAL

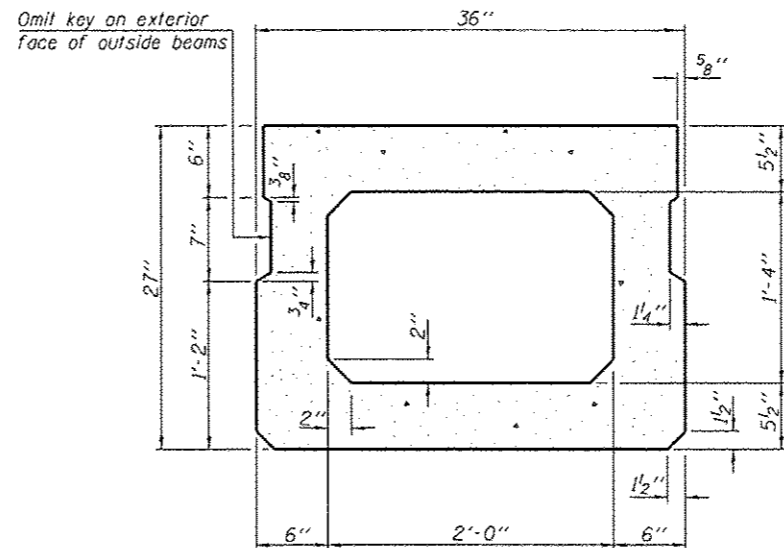
ITEM	UNIT	QUANTITY
Waterproofing Membrane System	Sq. Yd.	179
Polymerized Hot-Mix Asphalt Surface Course, Mix "C", N50	Tons	19



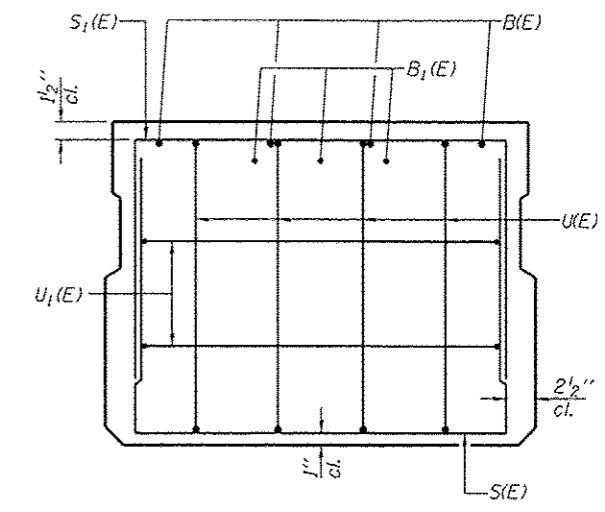
ANTICIPATED HMA WEARING SURFACE PROFILE
(For information only)



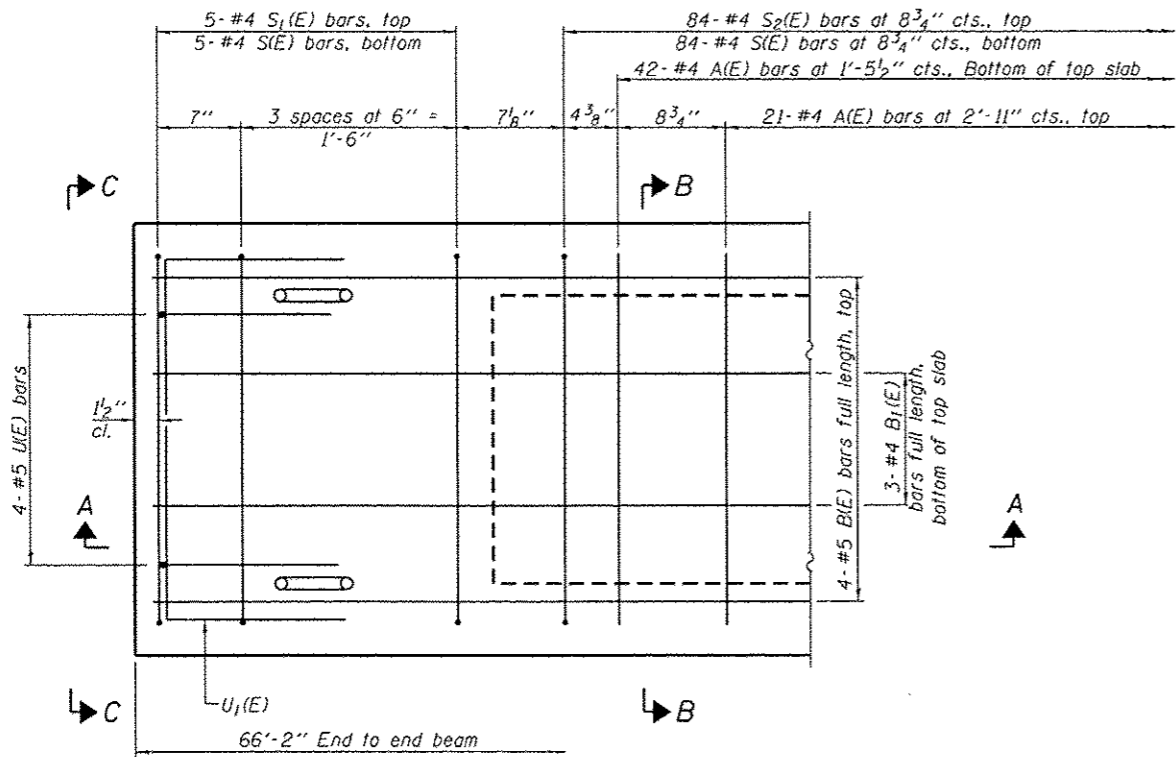
SECTION A-A



SECTION B-B
(Showing dimensions)

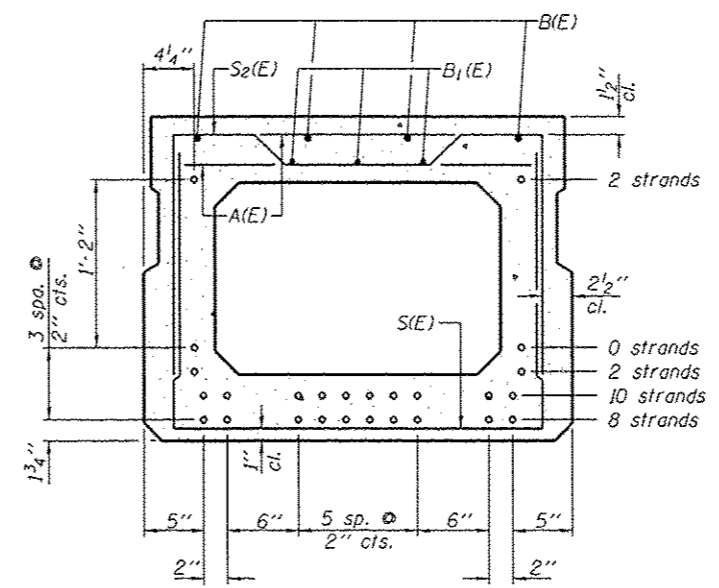


VIEW C-C



PLAN VIEW
(Symmetrical about \mathcal{C})

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION B-B
(Showing reinforcement and permissible strand locations)
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	63	#4	2'-7"	—
B(E)	8	#5	34'-4"	—
B1(E)	9	#4	23'-4"	—
S(E)	94	#4	6'-5"	U
S1(E)	10	#4	5'-11"	U
S2(E)	84	#4	6'-2"	U
U(E)	8	#5	4'-6"	C
U1(E)	4	#4	5'-0"	U

Note: See sheet 4 of 12 for additional details and Bill of Material.

MINIMUM BAR LAP

#4 bar = 2'-0"
#5 bar = 2'-6"

PD-2736-0 7-1-10

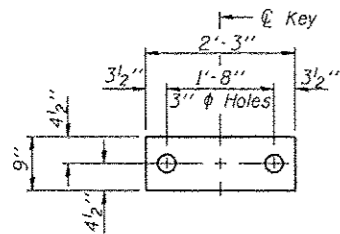
FILE NAME 8485852-89611-883 Deck Beam.dgn	USER NAME basvanson	DESIGNED - JAE	REVISED
MAURER-STUTZ ENGINEERS SURVEYORS	PLOT SCALE PLOT DATE 12/23/2013	CHECKED - LVM	REVISED
		DRAWN - JAE	REVISED
		CHECKED - BAS	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

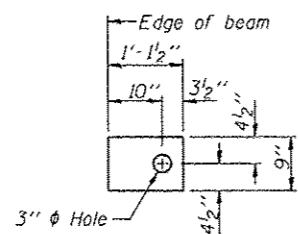
27" x 36" PPC DECK BEAM
STRUCTURE NO. 048-6052

SHEET NO. 3 OF 12 SHEETS

F.A.U. RTE. 6779	SECTION 11-00101-04-BR	COUNTY KNOX	TOTAL SHEETS 30	SHEET NO. 13
CONTRACT NO. 89611			ILLINOIS FED. AID PROJECT	



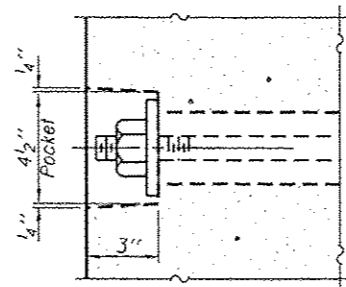
FABRIC BEARING PAD
(Interior)



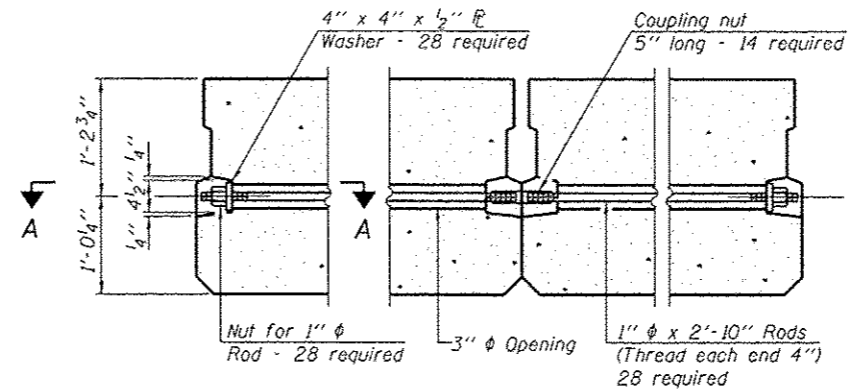
FABRIC BEARING PAD
(Exterior)

FIXED

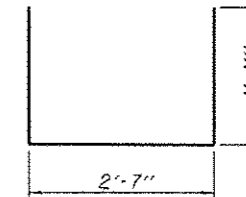
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



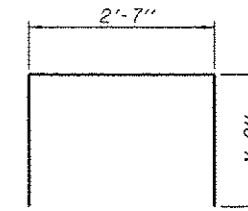
SECTION A-A



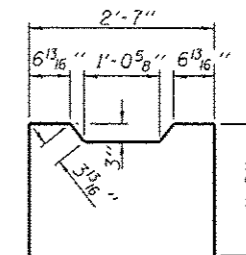
TYPICAL TRANSVERSE TIE ASSEMBLY



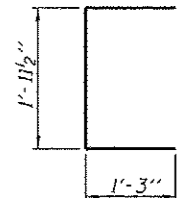
BAR S1(E)



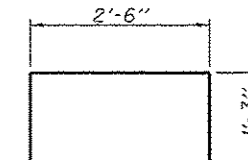
BAR S1(E)



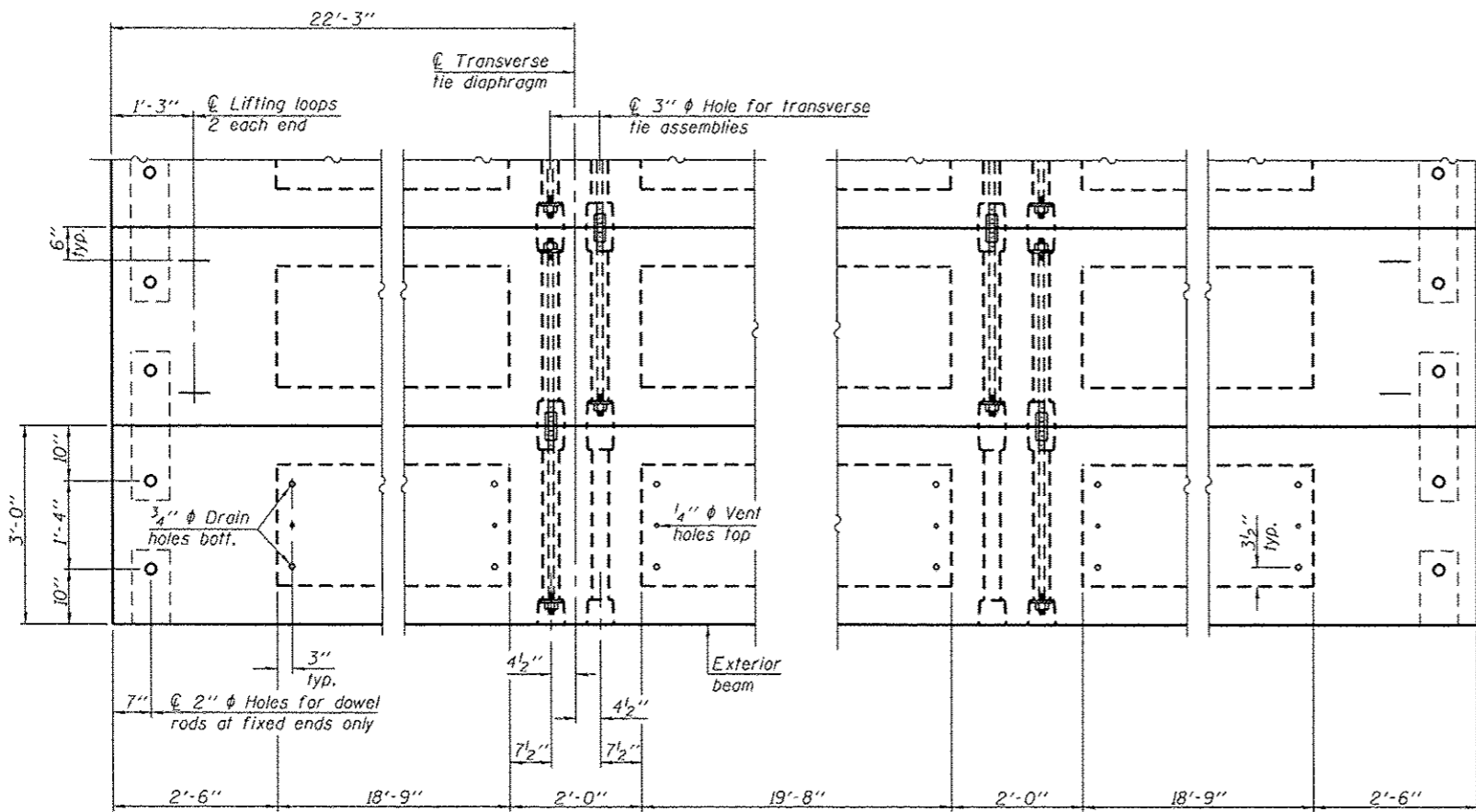
BAR S2(E)



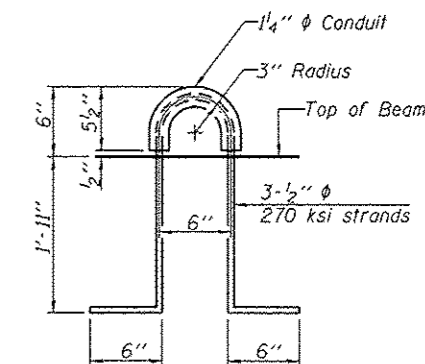
BAR U1(E)



BAR U1(E)



PLAN VIEW



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
Two 1/2" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	1588
---	---------	------

PD-2736-0D 7-1-10

MAURER-STUTZ
ENGINEERS SURVEYORS

USER NAME: boswanton
DESIGNED: JAE
CHECKED: LVM
DRAWN: JAE
CHECKED: BAS
PLOT SCALE:
PLOT DATE: 12/23/2013

DESIGNED: JAE
CHECKED: LVM
DRAWN: JAE
CHECKED: BAS

REVISED
REVISED
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

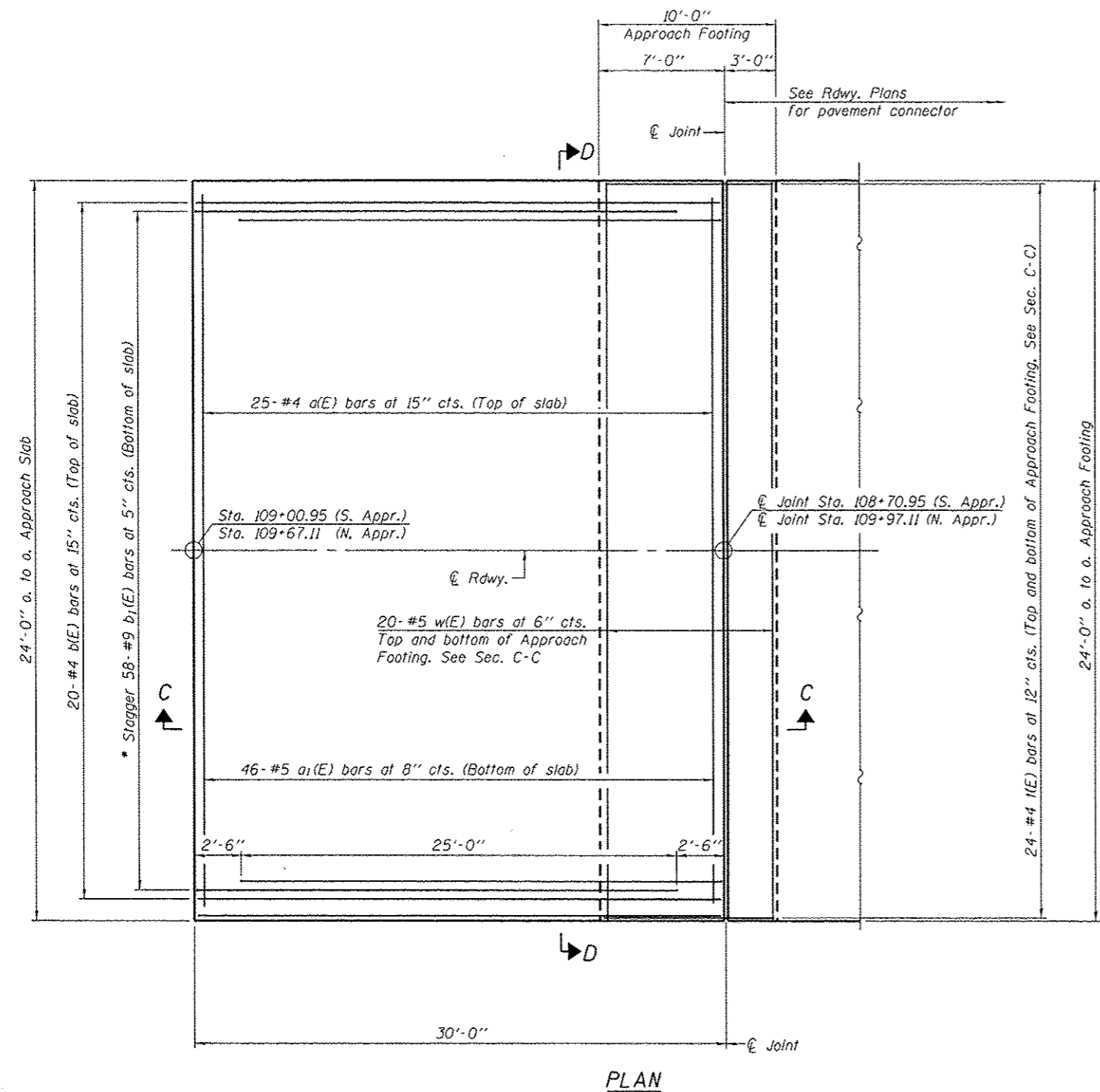
27" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 048-6052

SHEET NO. 4 OF 12 SHEETS

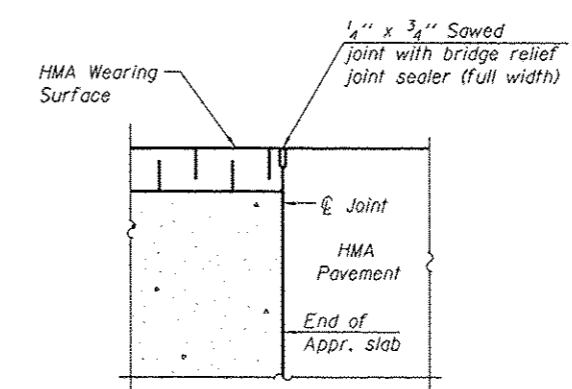
F.A.U. RTE. 6779	SECTION 11-00101-04-BR	COUNTY KNOX	TOTAL SHEETS 30	SHEET NO. 14
			CONTRACT NO. 89611	

ILLINOIS FED. AID PROJECT

Note:
See sheet 6 of 12 for Sections C-C & D-D.



* Tilt #9 b₁(E) bars as required to maintain clearance.



FLEXIBLE PAVEMENT
DETAIL A

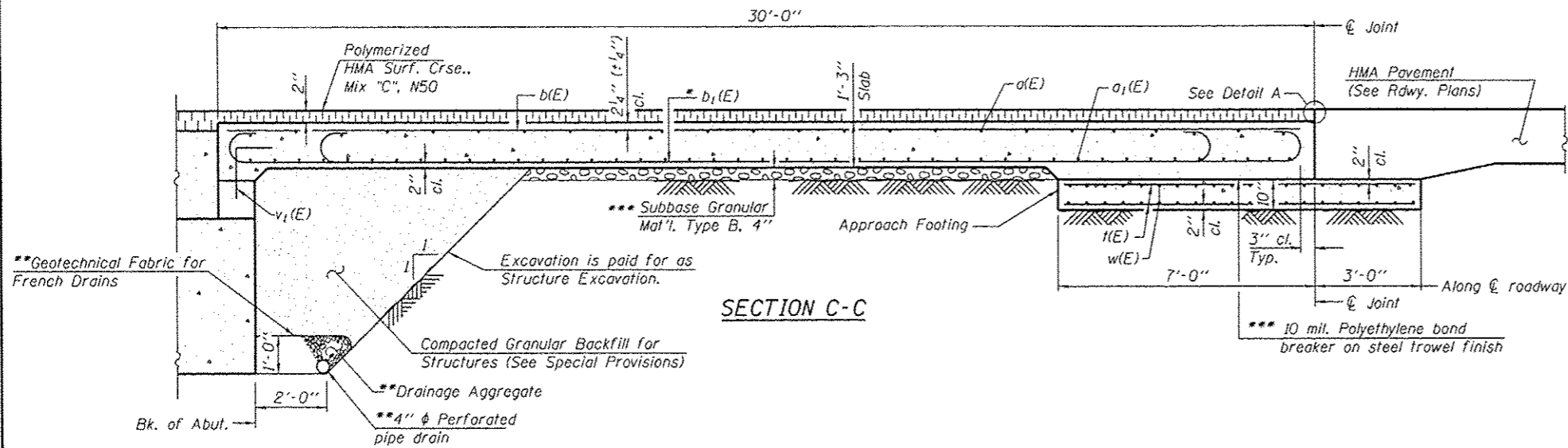
(Sheet 1 of 2)

FILE NAME : 0486852-09611-085 Approach.dgn	USER NAME : baswanson	DESIGNED - JAE	REVISED
MAURER-STUTZ ENGINEERS SURVEYORS	PLOT SCALE :	CHECKED - LVM	REVISED
PLOT DATE : 12/23/2013		DRAWN - JAE	REVISED
		CHECKED - BAS	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS STRUCTURE NO. 048-6052				
SHEET NO. 5 OF 12 SHEETS				

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6779	11-00101-04-BR	KNOX	30	15
CONTRACT NO. 89611				
ILLINOIS FED. AID PROJECT				



Notes:
 See sheet 5 of 12 for Detail A.
 Approach slab concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v₁(E) bar details, see sheets 9 and 10 of 12.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.

**Geotechnical Fabric for French Drains
 Bk. of Abut. 2'-0"
 **Drainage Aggregate
 **4" φ Perforated pipe drain
 Excavation is paid for as Structure Excavation.
 Compacted Granular Backfill for Structures (See Special Provisions)
 *** Subbase Granular Mat'l. Type B, 4"

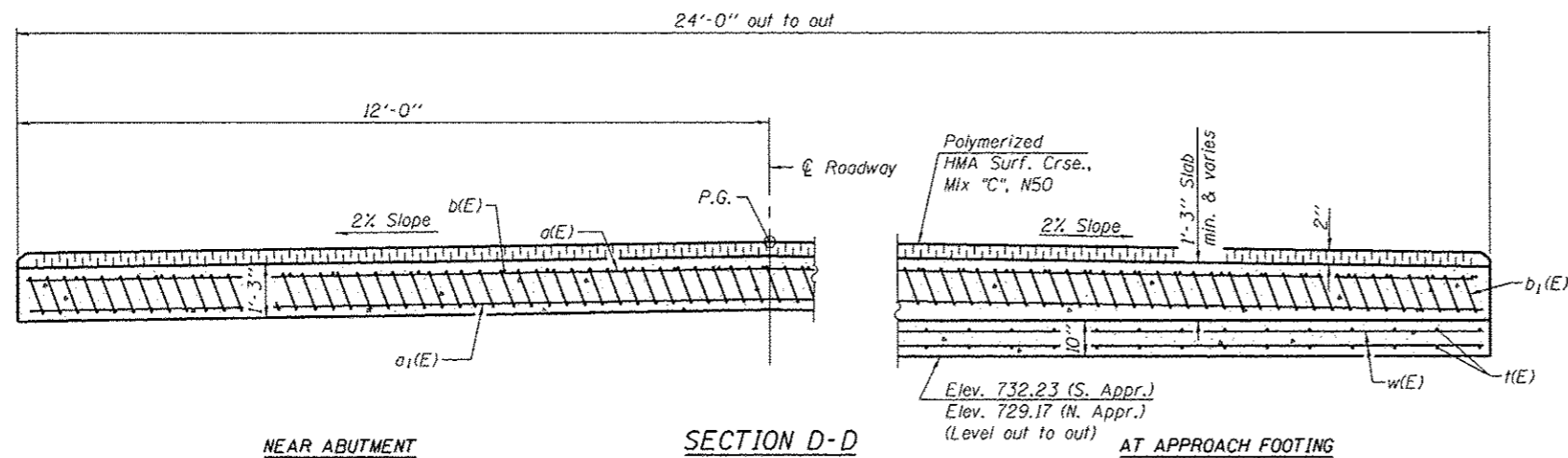
SECTION C-C

**Included in the cost of Pipe Underdrains for Structures.

* Till #9 b₁(E) bars as required to maintain clearance.

*** Cost included with Concrete Superstructure.

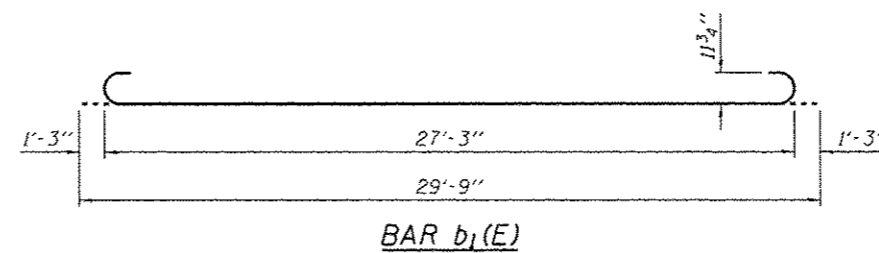
Note:
 All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



NEAR ABUTMENT

SECTION D-D

AT APPROACH FOOTING



TWO APPROACHES
 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	50	#4	23'-8"	—
a ₁ (E)	92	#5	23'-8"	—
b(E)	40	#4	29'-8"	—
b ₁ (E)	116	#9	29'-9"	—
i(E)	96	#4	9'-8"	—
w(E)	80	#5	23'-8"	—
Concrete Superstructure			Cu. Yd.	69.6
Concrete Structures			Cu. Yd.	14.8
Reinforcement Bars, Epoxy Coated			Pound	18180
Polymerized Hot-Mix Asphalt Surface Course, Mix "C", N50			Tons	18

(Sheet 2 of 2)

FILE NAME : 8406852-89611-886 Approach.dgn	USER NAME : basverson	DESIGNED - JAE	REVISED
		CHECKED - LVM	REVISED
		DRAWN - JAE	REVISED
		CHECKED - BAS	REVISED
MAURER-STUTZ ENGINEERS SURVEYORS	PLOT SCALE :		
	PLOT DATE : 12/23/2013		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 048-6052

SHEET NO. 6 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6779	11-00101-04-BR	KNOX	30	16
				CONTRACT NO. 89611
ILLINOIS FED. AID PROJECT				

WEST EDGE OF PAVEMENT

Location	Station	Offset	Top of Conc. Slab Elevations
S. End S. Appr. Slab	108+70.95	-12.00	734.54
A	108+80.95	-12.00	734.23
B	108+90.95	-12.00	733.94
N. End S. Appr. Slab	109+00.95	-12.00	733.67
S. End N. Appr. Slab	109+67.11	-12.00	731.89
C	109+77.11	-12.00	731.67
D	109+87.11	-12.00	731.47
N. End N. Appr. Slab	109+97.11	-12.00	731.26

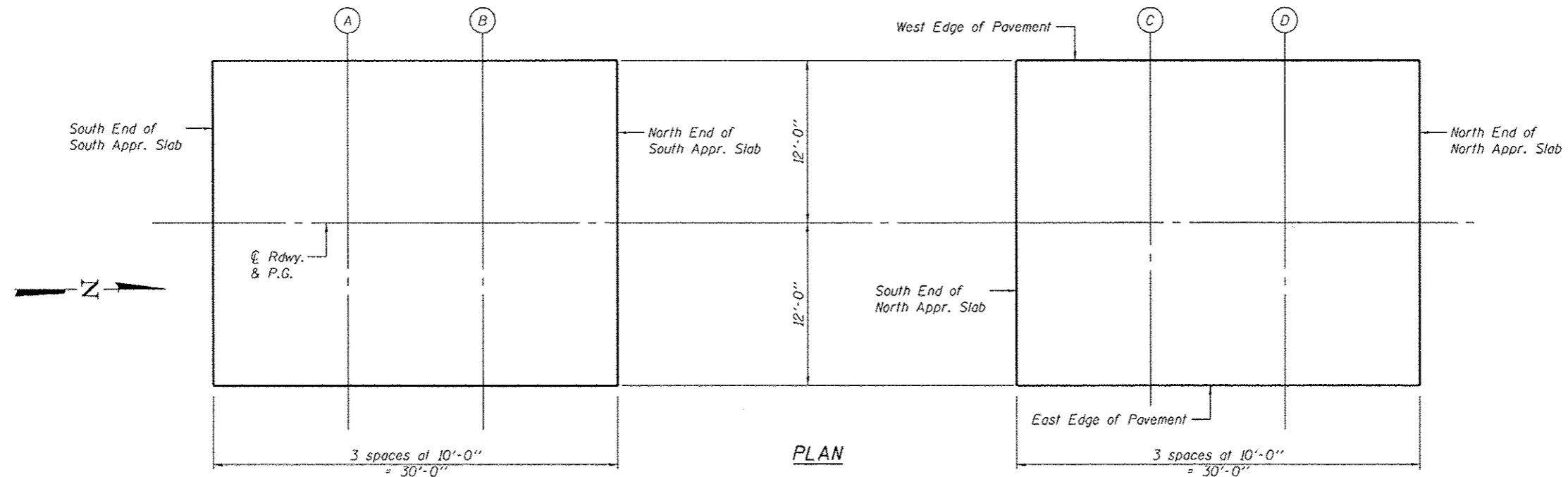
☉ ROADWAY & PROFILE GRADE

Location	Station	Offset	Top of Conc. Slab Elevations
S. End S. Appr. Slab	108+70.95	0.00	734.78
A	108+80.95	0.00	734.47
B	108+90.95	0.00	734.18
N. End S. Appr. Slab	109+00.95	0.00	733.91
S. End N. Appr. Slab	109+67.11	0.00	732.13
C	109+77.11	0.00	731.92
D	109+87.11	0.00	731.71
N. End N. Appr. Slab	109+97.11	0.00	731.50

EAST EDGE OF PAVEMENT

Location	Station	Offset	Top of Conc. Slab Elevations
S. End S. Appr. Slab	108+70.95	12.00	734.54
A	108+80.95	12.00	734.23
B	108+90.95	12.00	733.94
N. End S. Appr. Slab	109+00.95	12.00	733.67
S. End N. Appr. Slab	109+67.11	12.00	731.89
C	109+77.11	12.00	731.67
D	109+87.11	12.00	731.47
N. End N. Appr. Slab	109+97.11	12.00	731.26

Note:
Elevations are shown at top of 15" concrete approach slab, not including 2" HMA wearing surface.



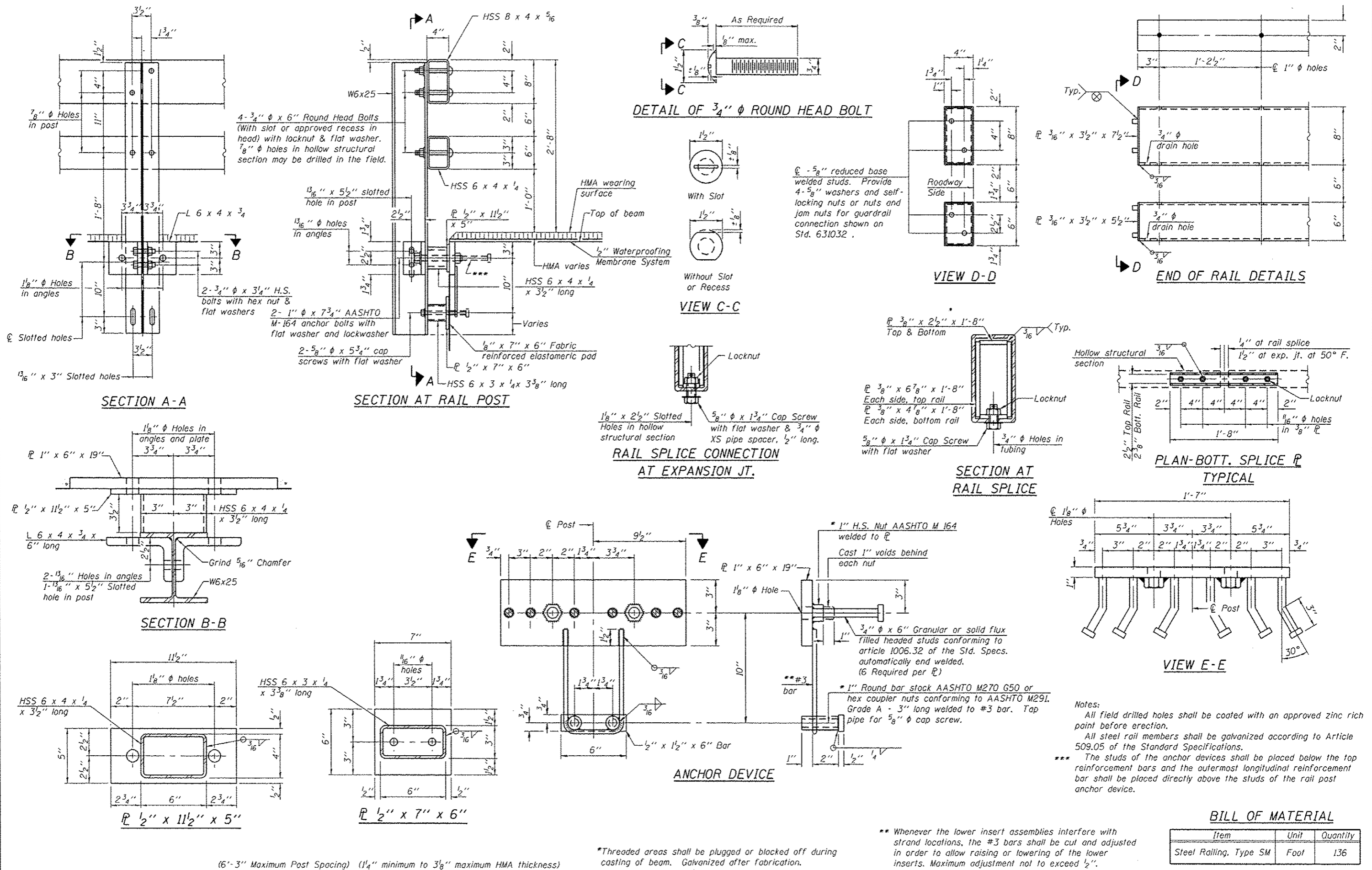
FILE NAME * 0486052-09611-007 Appr Elev.dgn	USER NAME * baswanston	DESIGNED - JAE	REVISED
		CHECKED - LVM	REVISED
		DRAWN - JAE	REVISED
		CHECKED - BAS	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NO. 048-6052**

SHEET NO. 7 OF 12 SHEETS

F.A.U. RTE. 6779	SECTION 11-001D1-04-BR	COUNTY KNOX	TOTAL SHEETS 30	SHEET NO. 17
				CONTRACT NO. 89611
ILLINOIS FED. AID PROJECT				

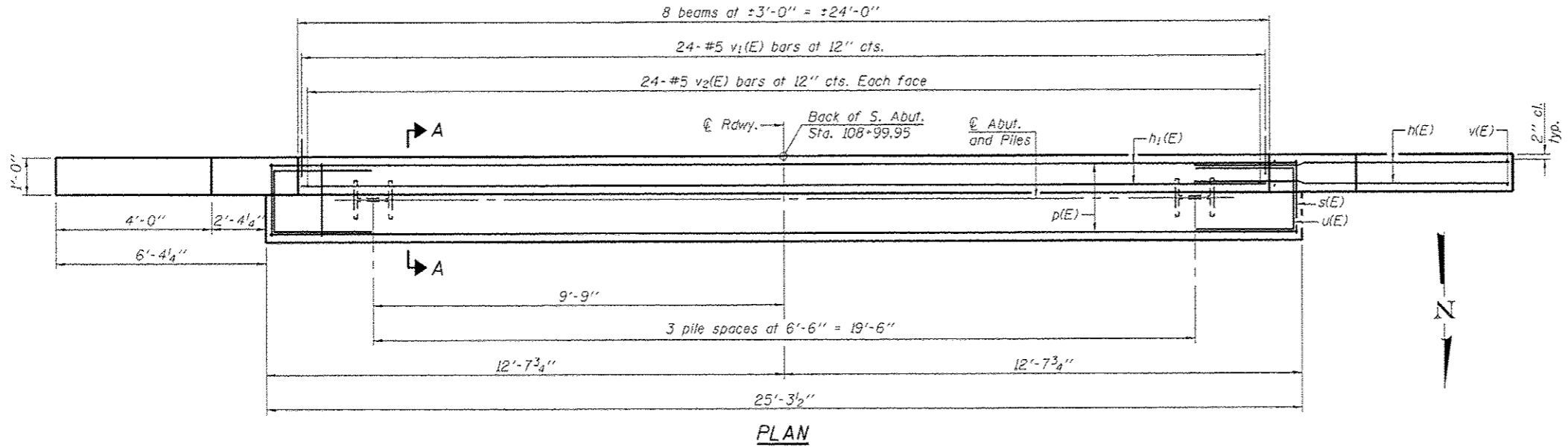
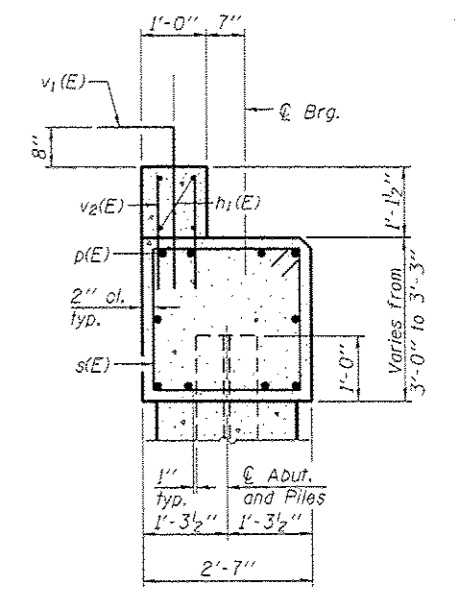
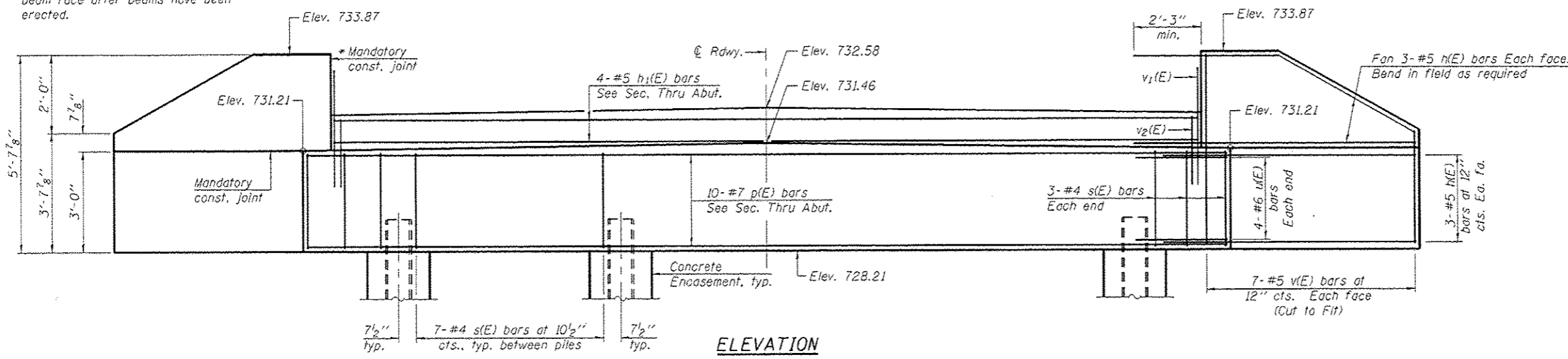


Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.
 *** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	136

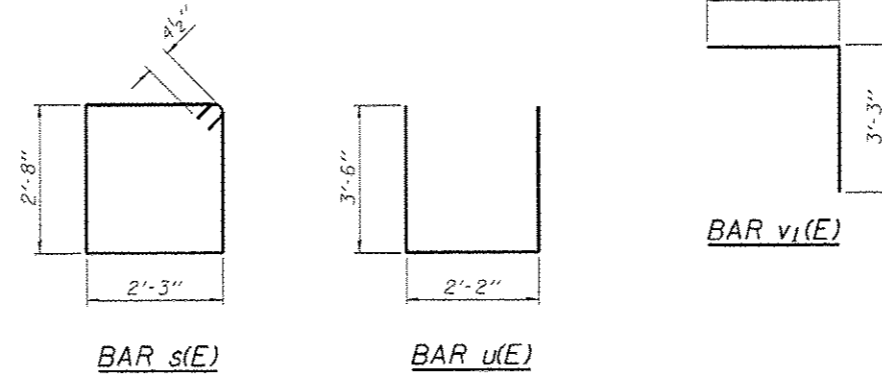
* Cast top of wingwall flush with exterior beam face after beams have been erected.



BILL OF MATERIAL

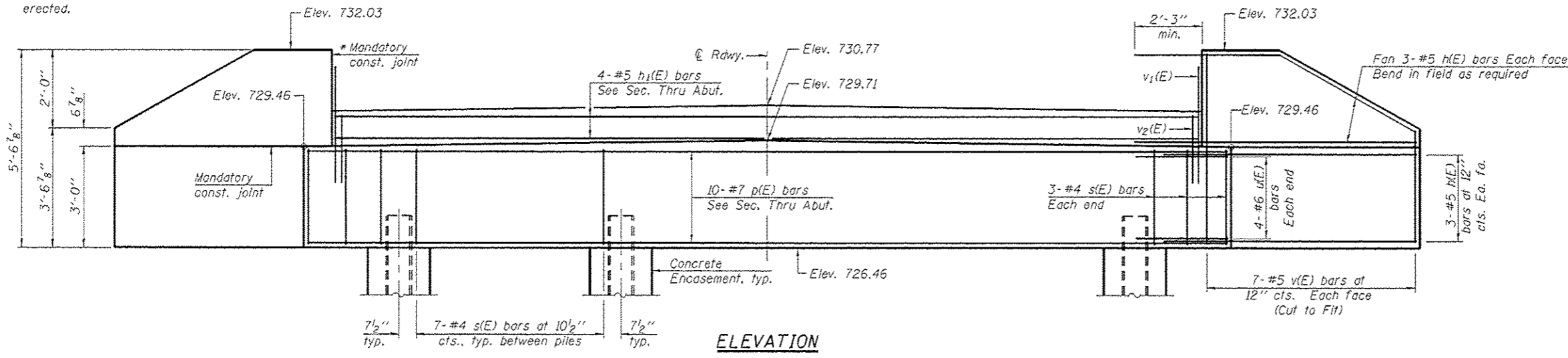
Bar No.	Size	Length	Shape
h(E)	24 #5	9'-6"	—
h ₁ (E)	4 #5	23'-10"	—
p(E)	10 #7	25'-0"	—
s(E)	27 #4	10'-7"	□
u(E)	8 #6	9'-2"	—
v(E)	28 #5	5'-3"	—
v ₁ (E)	24 #5	4'-11"	┌
v ₂ (E)	48 #5	2'-6"	—
Structure Excavation	Cu. Yd.	55	
Concrete Structures	Cu. Yd.	11.1	
Concrete Encasement	Cu. Yd.	1.4	
Reinforcement Bars, Epoxy Coated	Pound	1550	
Furnishing Steel Piles HP12x53	Foot	240	
Driving Piles	Foot	240	
Pile Shoes	Each	4	

PILE DATA
 Type: Steel - HP12x53 with pile shoes
 Nominal Required Bearing: 419 kips
 Factored Resistance Available: 171 kips
 Est. Length: 60 ft
 No. Production Piles: 4
 No. Test Piles: 0

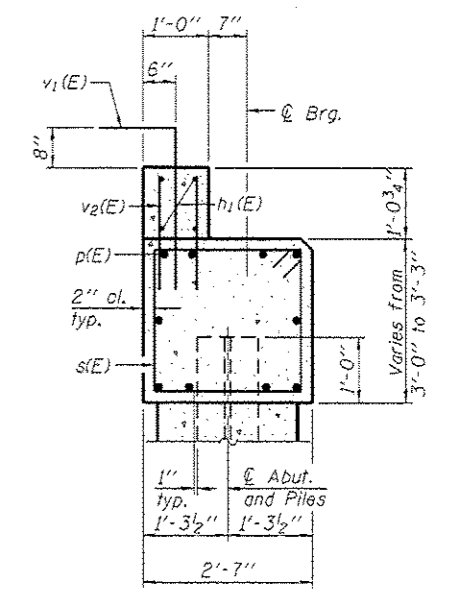


Notes:
 For details of piles and Concrete Encasement, see sheet 11 of 12.
 Cast backwall after beams have been erected.

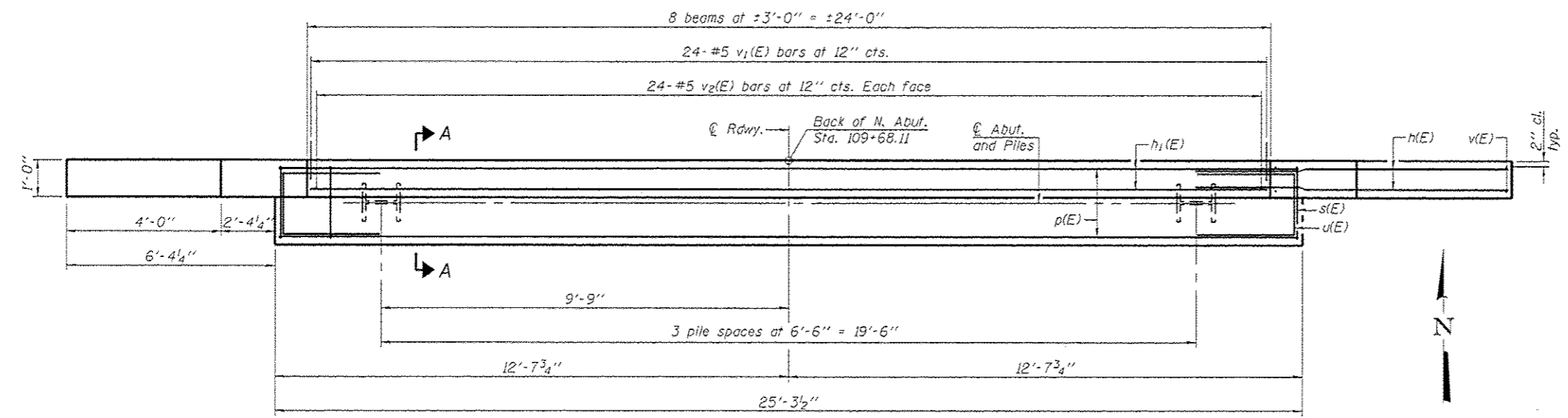
* Cast top of wingwall flush with exterior beam face after beams have been erected.



ELEVATION



SECTION A-A

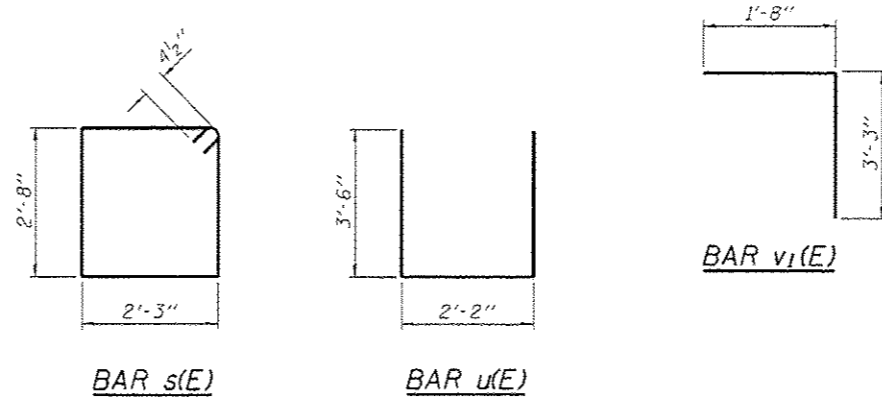


PLAN

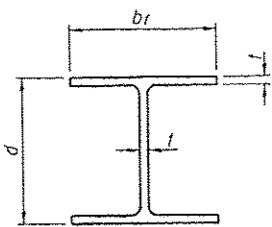
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	24	#5	9'-6"	—
h1(E)	4	#5	23'-10"	—
p(E)	10	#7	25'-0"	—
s(E)	27	#4	10'-7"	□
u(E)	8	#6	9'-2"	□
v(E)	28	#5	5'-3"	—
v1(E)	24	#5	4'-11"	└
v2(E)	48	#5	2'-6"	—
Structure Excavation		Cu. Yd.	57	
Concrete Structures		Cu. Yd.	11.0	
Concrete Encasement		Cu. Yd.	1.4	
Reinforcement Bars, Epoxy Coated		Pound	1550	
Furnishing Steel Piles HP12x53		Foot	183	
Driving Piles		Foot	183	
Test Pile Steel HP12x53		Each	1	
Pile Shoes		Each	4	

PILE DATA
 Type: Steel - HP12x53 with pile shoes
 Nominal Required Bearing: 419 kips
 Factored Resistance Available: 171 kips
 Est. Length: 61 ft
 No. Production Piles: 3
 No. Test Piles: 1

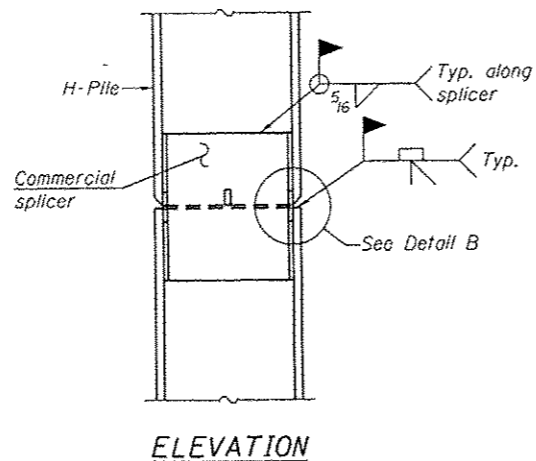


Notes:
 For details of piles and Concrete Encasement, see sheet 11 of 12.
 Cast backwall after beams have been erected.

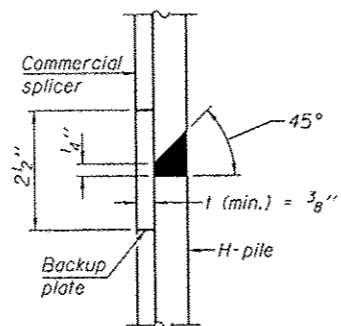


STEEL PILE TABLE

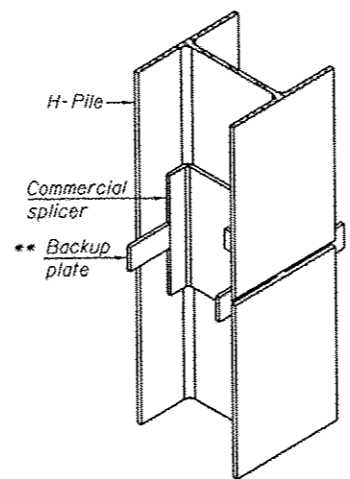
Designation	Depth d	Flange width b _f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	11/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

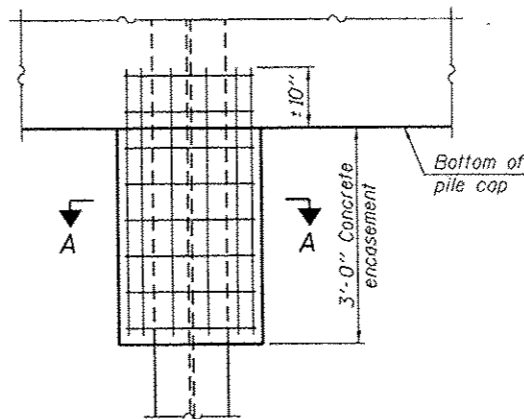


DETAIL "B"



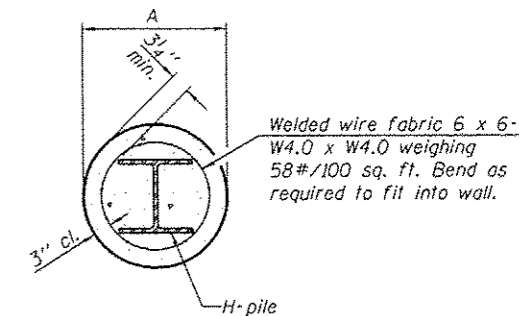
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



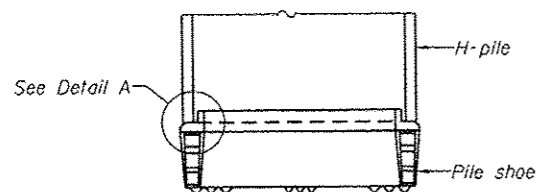
ELEVATION

PILE ENCASEMENT

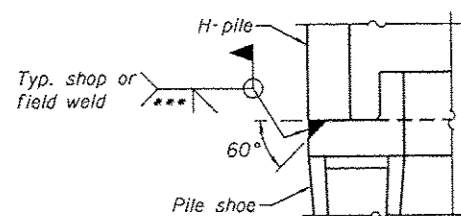


SECTION A-A

Note: Forms for encasement may be omitted when soil conditions permit.

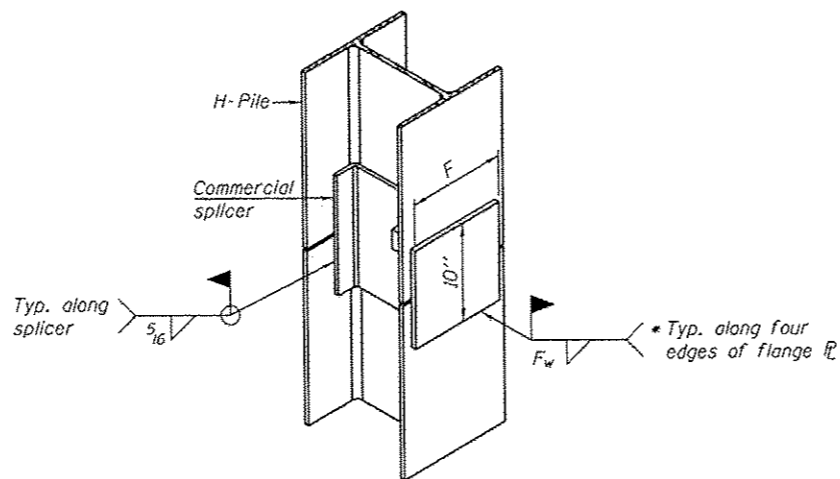


ELEVATION



DETAIL A

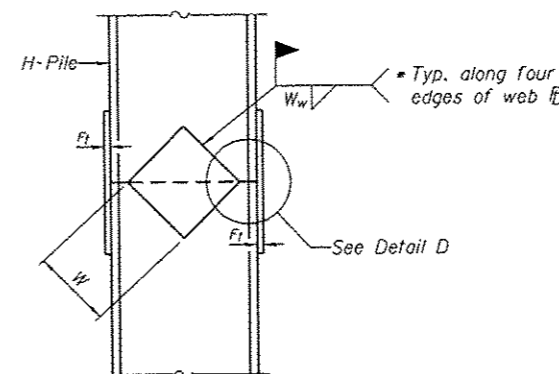
H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

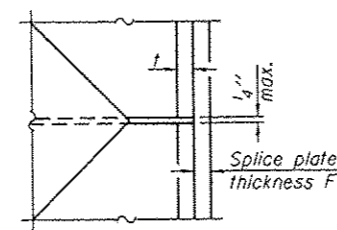
WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).



ELEVATION

WELDED PLATE FIELD SPLICE



DETAIL D

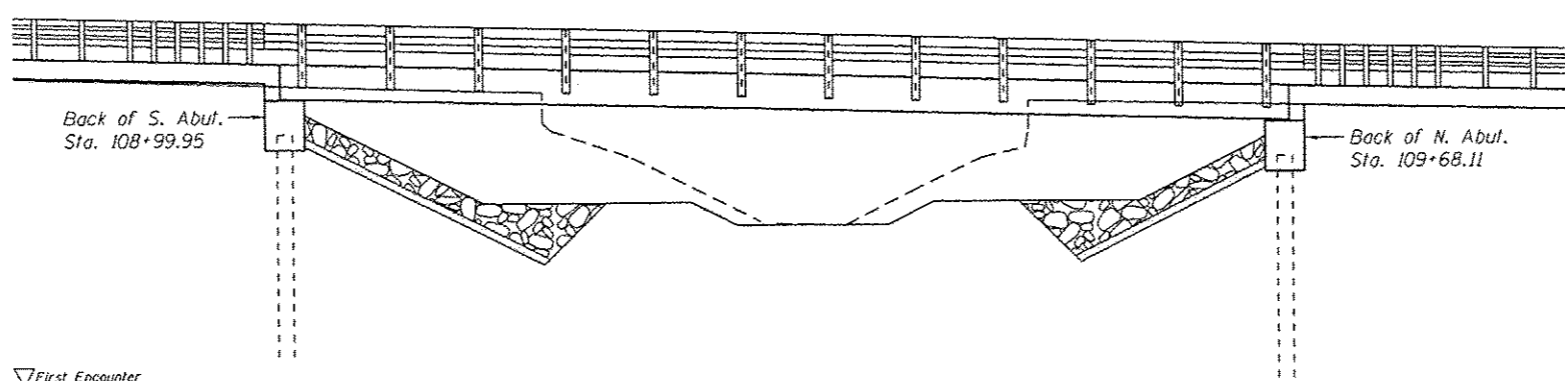
Designation	F	F ₁	F _w	W	W _f	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

Note: The steel H-piles shall be according to AASHTO M270 Grade 50.

BORING NO. B-02

S. Abutment
Sta. 109+07
3 ft RT

ELEV (ft.)	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MC %	
732.60					Stiff, Dark Brown CLAY LOAM With Some Coarse-Grained Sand (FIII)
728.10	4.5	6	1.4 B	14	
725.60	7.0	7	1.5 B	22	Stiff, Brown SILTY CLAY (FIII)
720.60	12.0	3	0.4 B	40	Soft, Dark Brown SILTY CLAY With Some Organic Matter
718.10	14.5	3	0.4 B	38	
715.60	17.0	4	0.5 B	30	Medium, Dark Brown And Brown SILTY CLAY
713.10	19.5	3	0.4 B	28	Soft, Gray And Light Brown SILTY CLAY
708.60	25.0	6	1.8 B	19	Stiff, Gray CLAY GLACIAL TILL
706.85	26.85	9	2.1 B	17	Very Stiff, Gray CLAY GLACIAL TILL
702.85	30.85	9	2.0 B	18	Stiff, Gray CLAY GLACIAL TILL
697.85	35.85	9	1.9 B	19	
692.85	40.85	10	1.5 B	20	Very Stiff, Gray CLAY GLACIAL TILL
688.35	46.35	11	1.7 B	22	Medium, Gray SILT
682.35	52.35	13	1.9 B	22	Stiff, Gray SILTY CLAY GLACIAL TILL
674.10	60.10	18	4.3 B	20	Hard, Gray and Light Brown CLAY GLACIAL TILL
668.60	65.60	21	4.9 B	19	
664.60	71.60	17	3.0 B	18	Very Stiff, Gray SILTY CLAY GLACIAL TILL
661.60	74.60	29	3.8 B	17	Stiff, Gray CLAY GLACIAL TILL
660.35	75.35	61	4.9 B	18	Hard, Dark Gray CLAY SHALE With Coal Fragments
660.35	75.35	59	4.5 P	16	
660.35	75.35	71.5"	4.5 P	17	Hard, Gray CLAY SHALE With Coal Fragments (End of Boring)



BORING NO. B-01

N. Abutment
Sta. 109+60
5 ft LT

ELEV (ft.)	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MC %	
731.35					Very Stiff, Light Brown And Brown SILTY CLAY (FIII)
726.85	4.5	7	2.3 B	18	
724.35	7.0	9	1.5 B	20	Stiff, Brown SILTY CLAY With Some Fine-Grained Gravel (FIII)
719.35	12.0	4	0.7 B	33	Medium to Soft, Dark Brown SILTY CLAY With Trace of Organic Matter
717.35	14.0	3	0.5 B	33	
714.35	17.0	3	0.4 B	26	Soft, Gray SILTY CLAY LOAM
706.85	24.5	4	0.7 B	23	Medium, Gray SILTY CLAY LOAM
702.85	28.5	8	1.9 B	20	Stiff, Gray-Brown CLAY GLACIAL TILL
700.85	30.5	9	1.8 B	19	
700.85	30.5	11	1.3 B	20	Very Stiff, Gray CLAY GLACIAL TILL
702.85	28.5	12	2.6 B	19	
697.85	33.5	14	0.5 B	23	Medium, Gray SILT
692.85	38.5	7	1.2 B	20	Stiff, Gray SILTY CLAY GLACIAL TILL
692.35	39.0	25	4.4 B	18	Hard, Gray and Light Brown CLAY GLACIAL TILL
688.35	43.0	26	6.3 B	17	
682.35	49.0	15	1.4 B	19	Stiff, Gray CLAY GLACIAL TILL
671.85	60.5	17	1.7 B	18	
660.35	74.0	37	4.3 B	19	Hard, Dark Gray and Gray CLAY SHALE With Coal Fragments
660.35	74.0	57	4.5 P	16	
660.35	74.0	66	4.5 P	16	Hard, Dark Gray and Gray CLAY SHALE With Coal Fragments (End of Boring)

▽ First Encounter

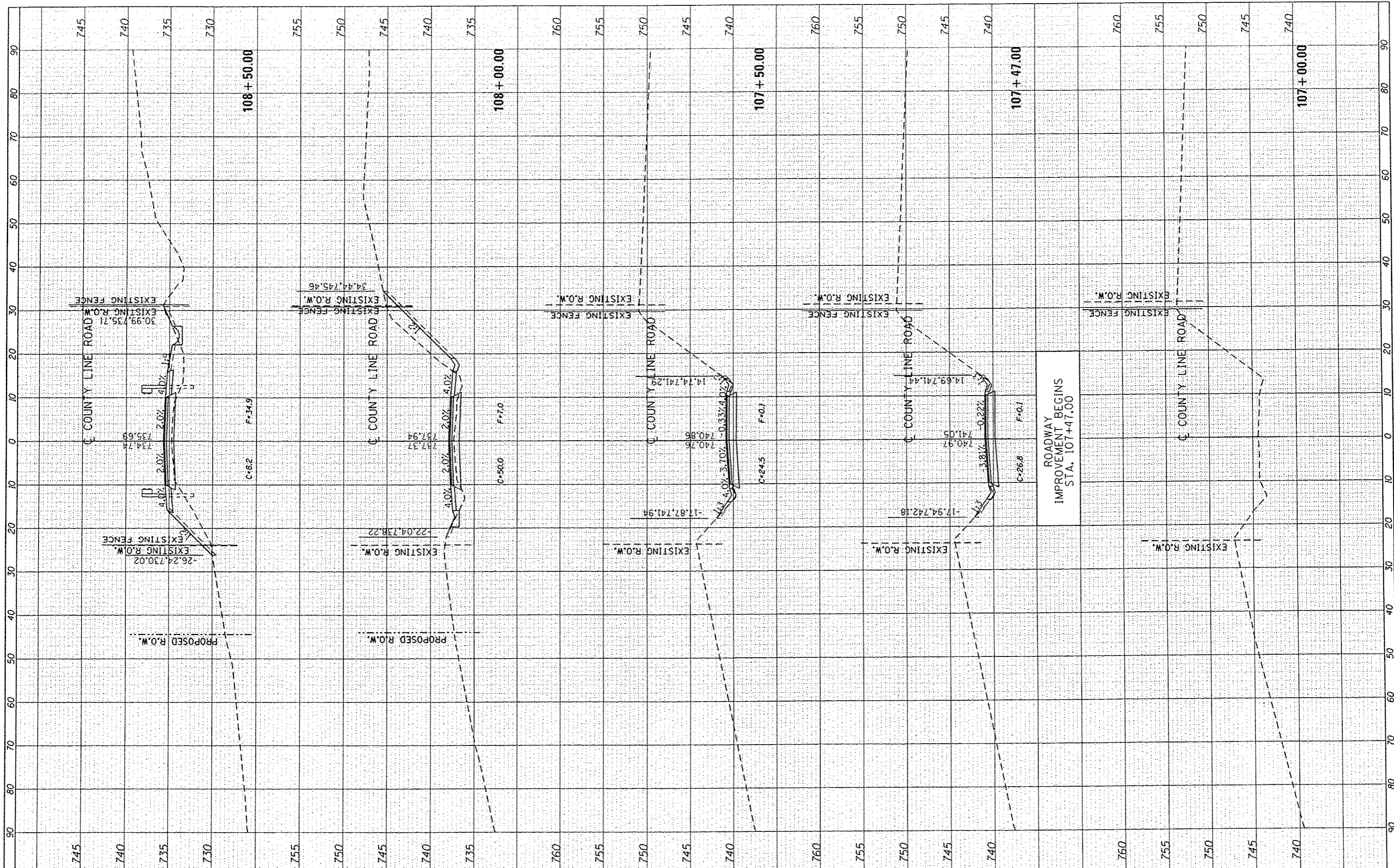
▽ First Encounter

Boring Notes:

- Soil borings were taken on Nov. 28, 2012.
- SPT - Standard Penetrometer Test
- UCS - Unconfined Compressive Strength
- MC - Moisture Content
- Unconfined Compressive Strength Failure Mode:
 - B = Bulge Failure
 - S = Shear Failure
 - P = Penetrometer Reading

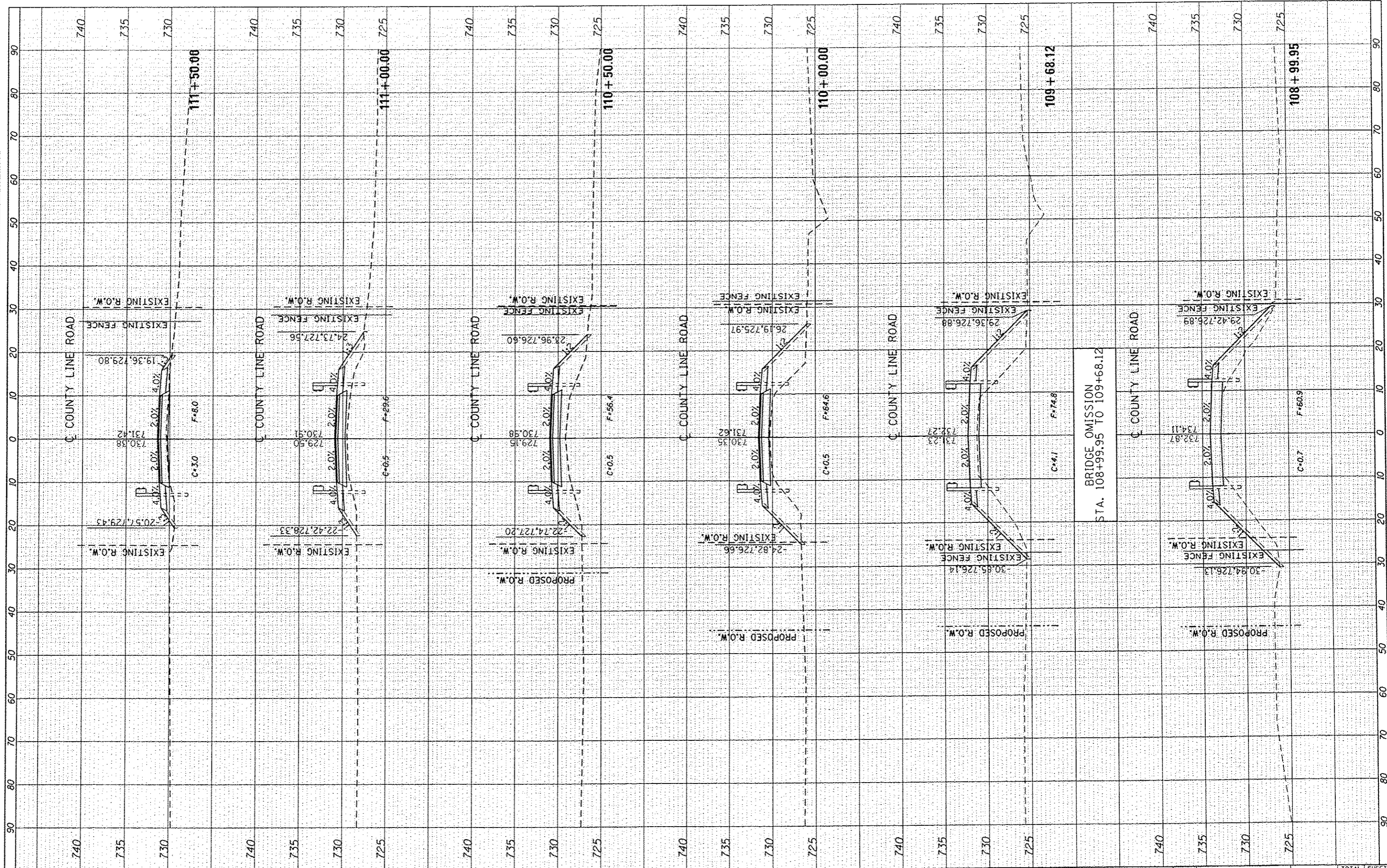
FINL	DATE
SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
NO.	

ORIGIN	DATE
SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
NO.	



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

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



FILE NAME * S:\237\2012\23712888.BR County Line Road Stru
 USER NAME * jdspllor
 DESIGNED -
 REVISIONS -
 CHECKED -
 DATE -

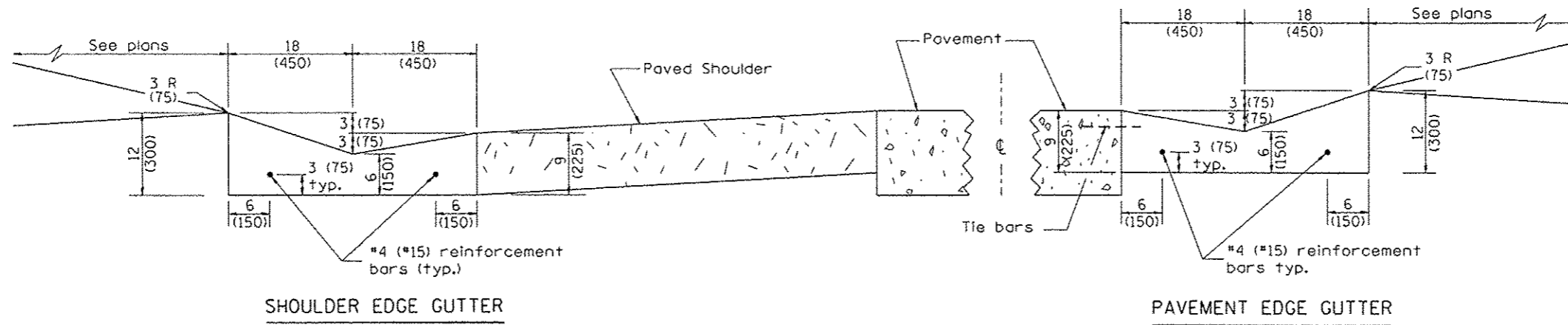
PLANT SCALE: 20.8000' / 1" in.
 PLOT DATE: 12/26/2013
 REVISIONS -
 REVISIONS -
 REVISIONS -
 REVISIONS -



CITY OF GALESBURG

COUNTY LINE ROAD OVER TRIBUTARY TO CEDAR CREEK
 CROSS SECTIONS
 SCALE: SHEET OF SHEETS STA. 108+99.95 TO STA. 111+50.00

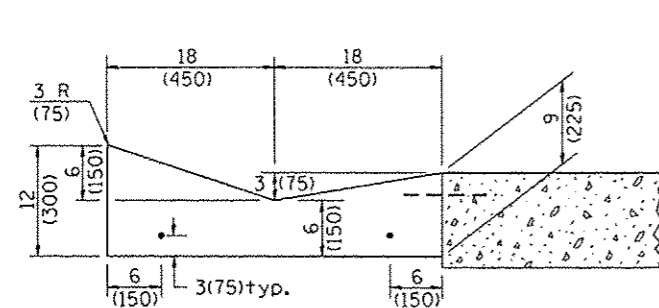
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6779	11-00101-04-BR	KNOX	30	24
CONTRACT NO. 89611				
ILLINOIS FED. AID PROJECT				



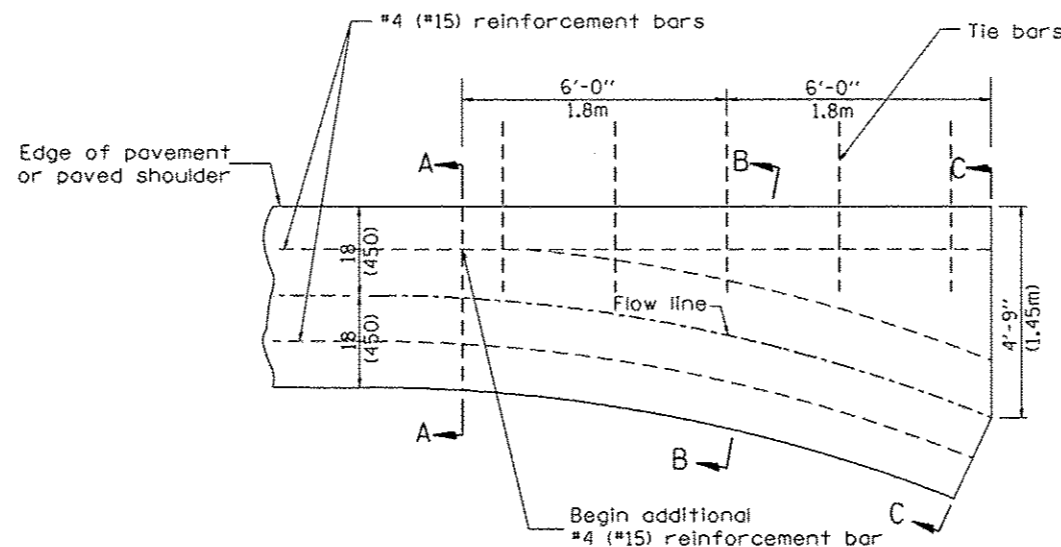
SHOULDER EDGE GUTTER

CONCRETE GUTTER, TYPE A, (SPECIAL)

PAVEMENT EDGE GUTTER

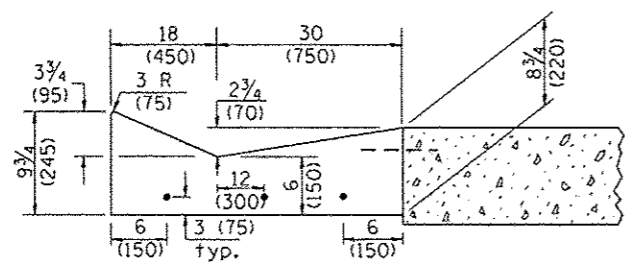


SECTION A-A

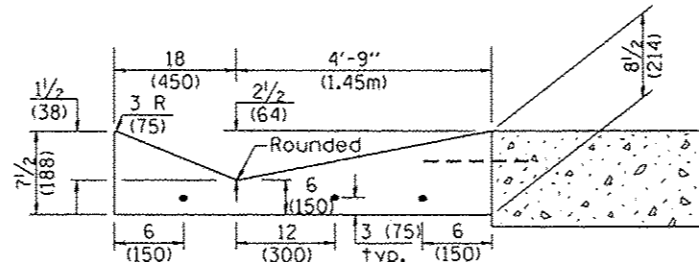


PLAN

QUANTITY
Section C-C to A-A= 1.2 cu. yd.
(0.92 m³) concrete.



SECTION B-B



SECTION C-C

INLET

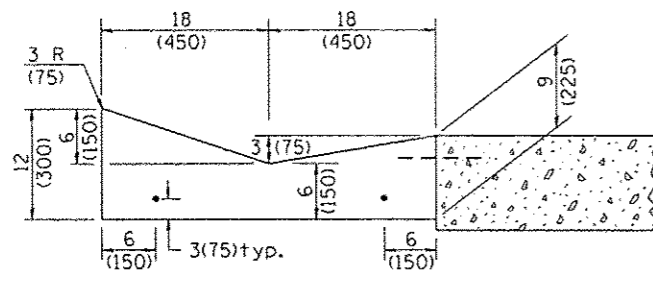
GENERAL NOTES:

1. CONCRETE GUTTER, TYPE A, (SPECIAL) shall conform to the applicable portions of Section 606.
2. Tie bars shall be No. 6 (No. 20) at 24" (600mm) centers unless otherwise shown.
3. Gutter, gutter inlets, gutter outlets, and gutter entrances shall be tied to rigid pavement in accordance with details shown on Standard 420001.
4. Joints shall be constructed in accordance with Article 606.06.
5. Welded wire fabric shall conform to Article 1006.10(c)(1), and shall not be less than 58 lbs/100 sq.ft. (2.83 kg/m²).

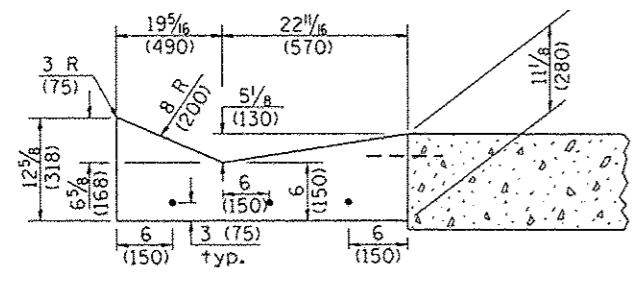
All dimensions are in Inches (millimeters) unless otherwise noted.

01-01-97	RENUM. A-1.02, NEW REVISION BOX, ELIMINATED	T.P.	01-10-07	REVISED QUANTITY	M.A.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONCRETE GUTTER, TYPE A, (SPECIAL) (INLET, OUTLET & ENTRANCE)	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	EXPANSION ANCHOR TIES		11-16-07	REVISED QUANTITY	M.A.			6779	11-00101-04-BR	KNDX	30	26	
02-28-02	ENTRANCE TYPICALS REVISED	M.A.	02-15-11	CHANGED MODIFIED TO SPECIAL	R.D.			CONTRACT NO. 89611					
10-16-06	REVISED TO 2007 SPEC.	M.A.						SHT. 1 OF 3 CADD STD. 606101-04 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

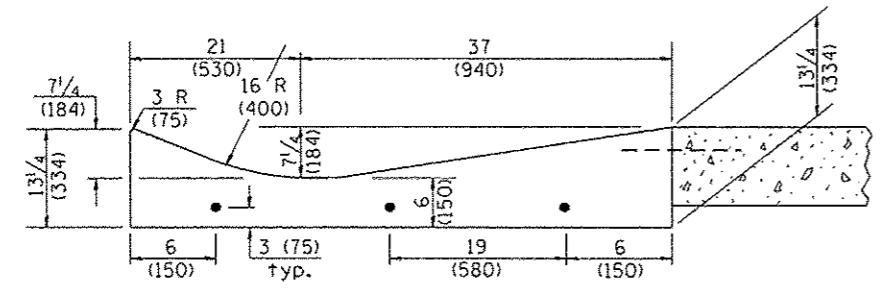
NOT TO SCALE



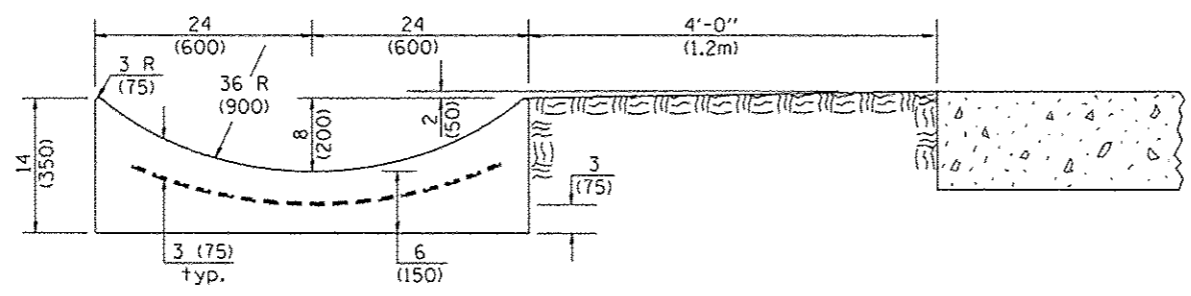
SECTION A-A



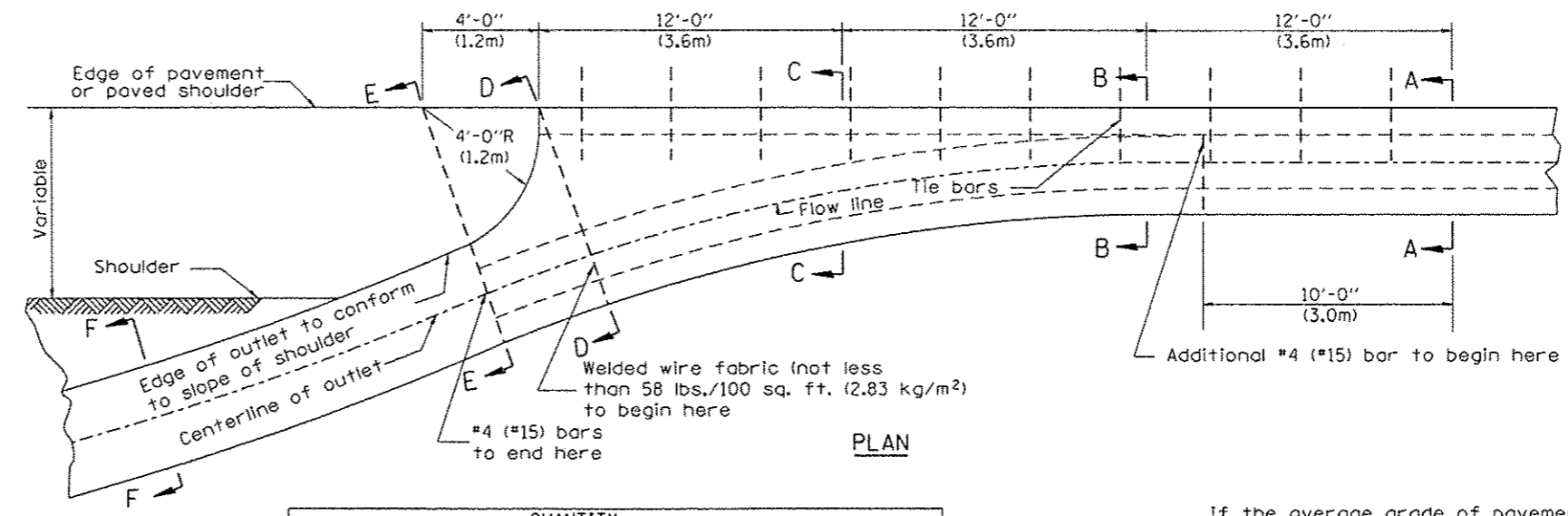
SECTION B-B



SECTION C-C



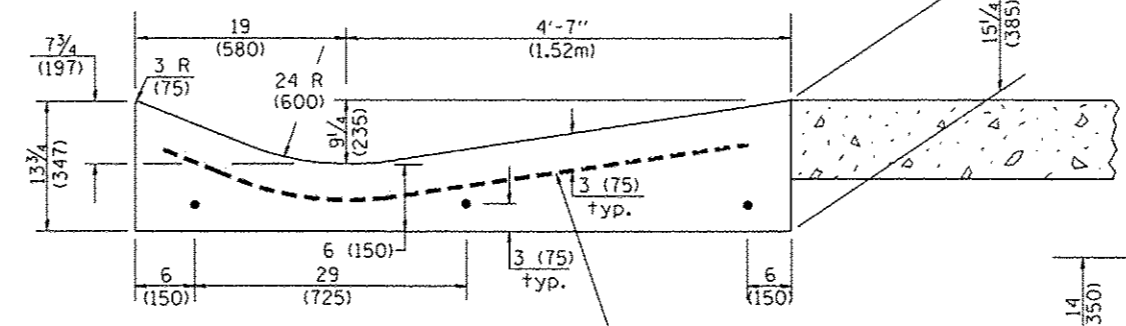
SECTION E-E



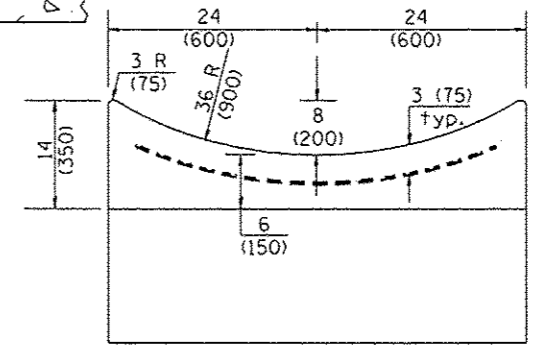
PLAN

QUANTITY
 Section A-A to E-E = 4.5 cu. yd. (3.36 m³) concrete.
 Section E-E to F-F = 0.10 cu. yd./ft. (0.26 m³/m) concrete.

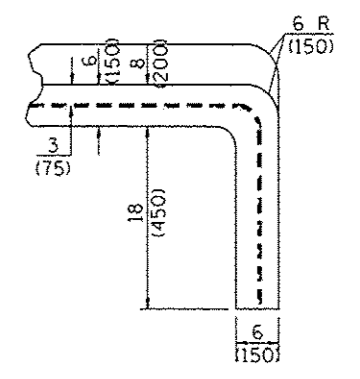
If the average grade of pavement for the distance from section A-A to section D-D exceeds 2%, this distance shall be increased 6 ft. (1.8 m) for each 1% increase in grade. A quantity adjustment is required.



SECTION D-D



SECTION F-F



SECTIONS AT END OF OUTLET
(CURTAIN WALL)

QUANTITY
 Curtain Wall = 0.1 cu. yd. (0.08 m³) concrete.

OUTLET

All dimensions are in inches (millimeters) unless otherwise noted.

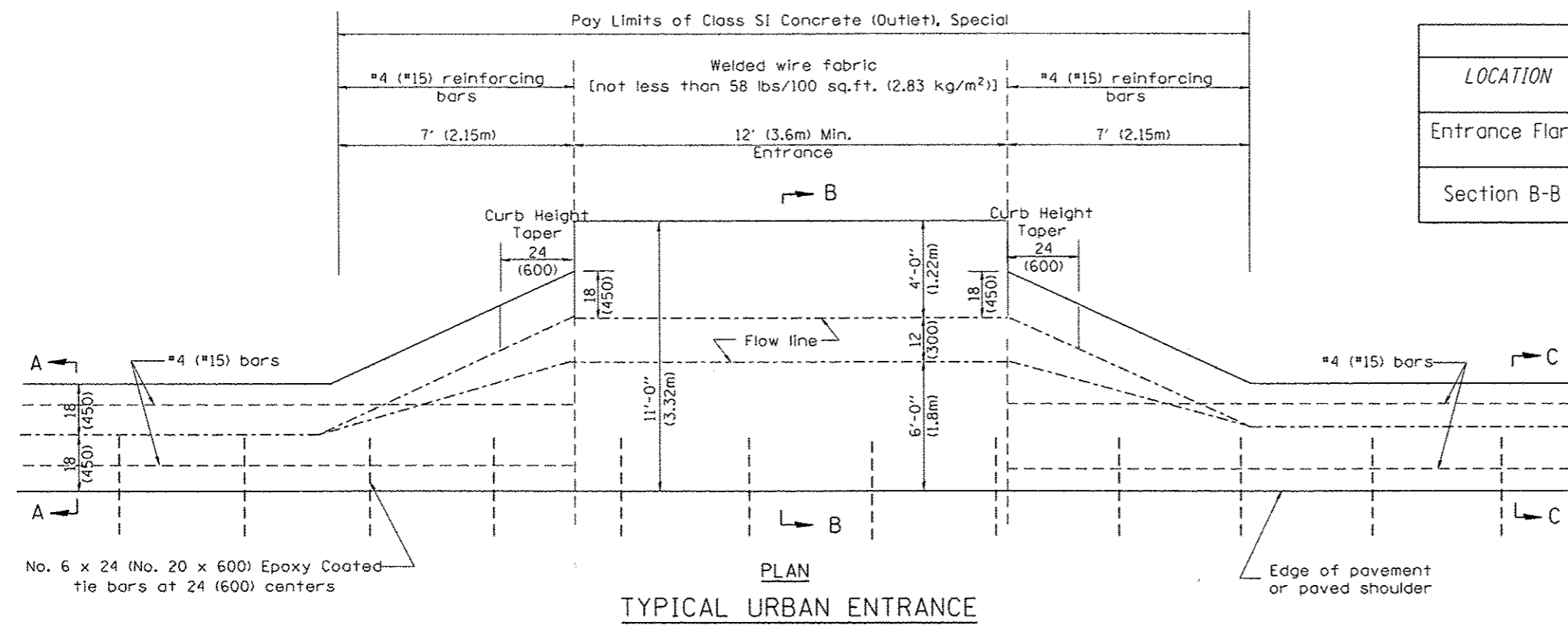
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CONCRETE GUTTER, TYPE A, (SPECIAL)
 (INLET, OUTLET & ENTRANCE)

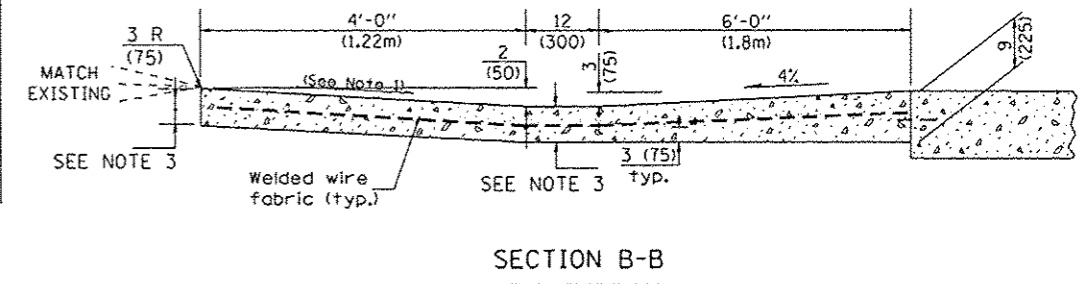
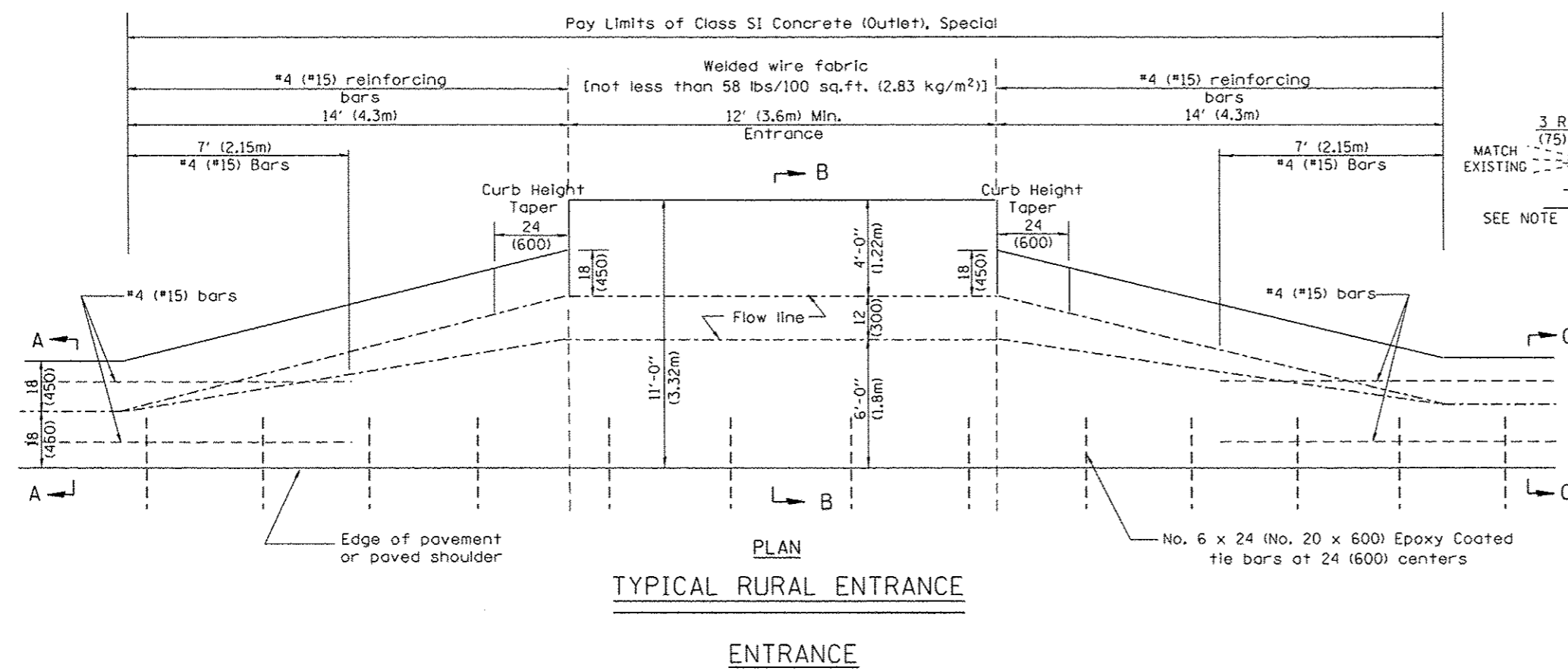
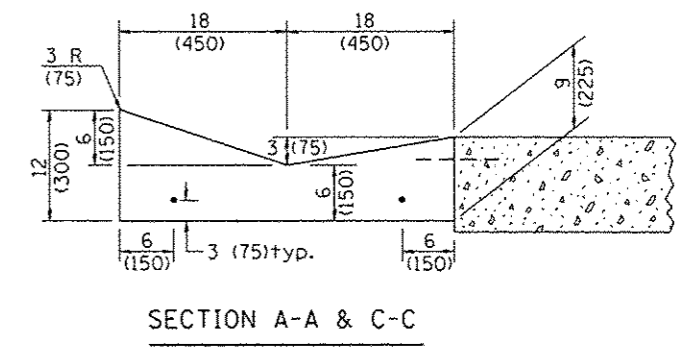
NOT TO SCALE

SHT. 2 OF 3
 CADD STD. 606101-D4

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6779	11-00101-04-BR	KNOX	30	27
CONTRACT NO. 89611				

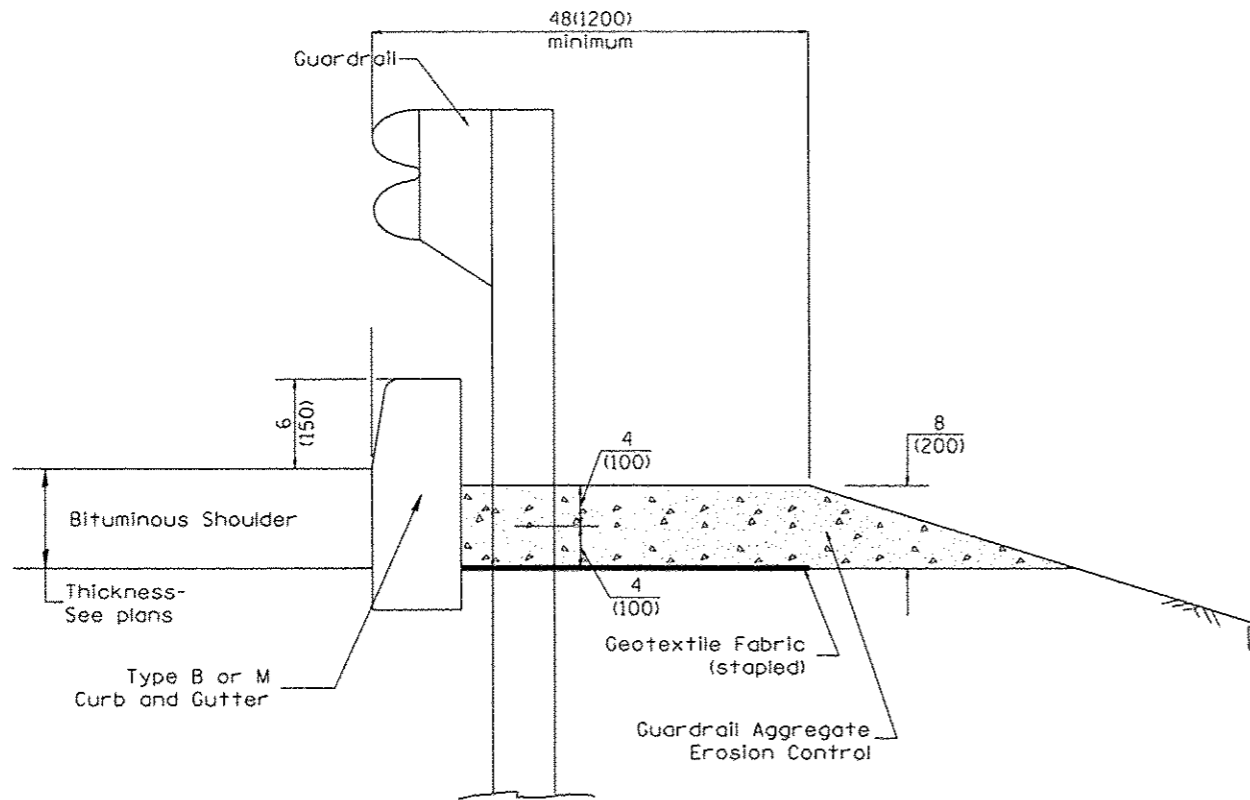


QUANTITY CALCULATION			
LOCATION	LENGTH	NON-COMMERCIAL 6 (150)	COMMERCIAL ENTRANCE 8 (200)
Entrance Flare	7 Ft (2.15 m) Urban 14 Ft (4.30 m) Rural	0.15 Cu Yd / Ft (0.37 Cu M / M)	0.18 Cu Yd / Ft (0.45 Cu M / M)
Section B-B	See Plans	0.23 Cu Yd / Ft (0.57 Cu M / M)	0.28 Cu Yd / Ft (0.70 Cu M / M)



- GENERAL NOTES**
- Slope may be increased from 4% (min.) to 6% (max.) in order to match the existing.
 - The cross-slope is to be constructed as given in the plans from back turnout to where driveway matches existing.
 - For Non-Commercial Entrances the driveway thickness shall be 6 (150). For Commercial Entrances the driveway thickness shall be 8 (200).

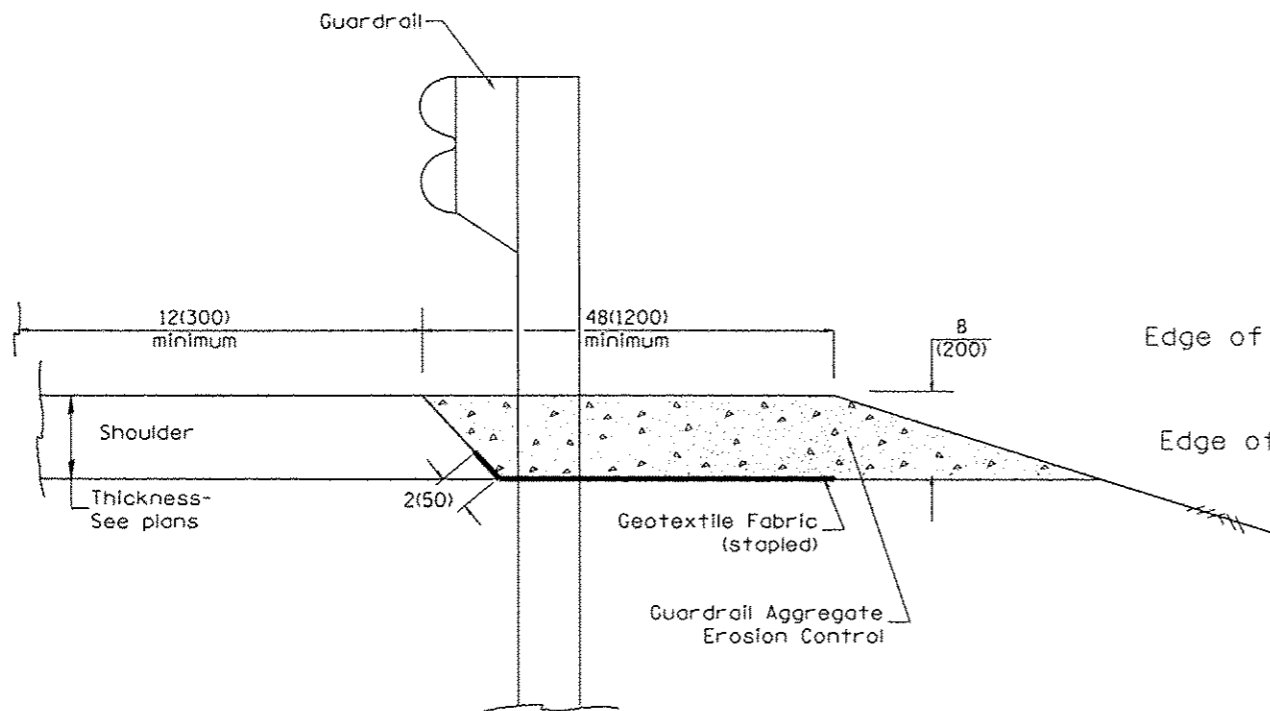
All dimensions are in inches (millimeters) unless otherwise noted.



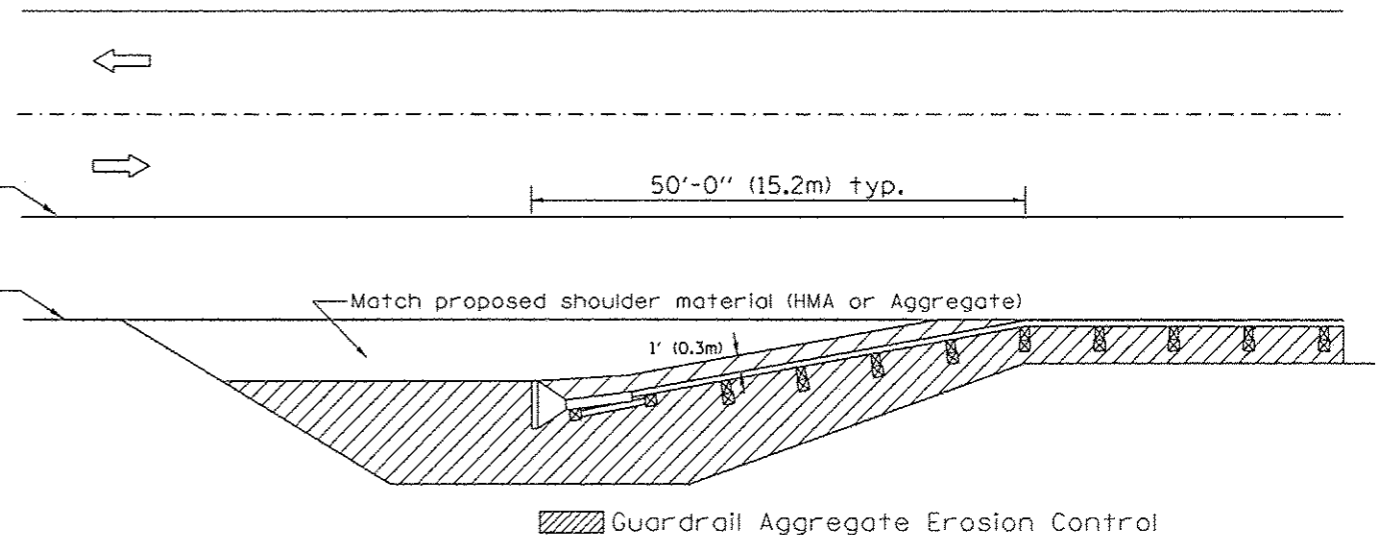
TYPICAL SECTION WITH EROSION CONTROL CURB

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet the following requirements:
 - A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
 - B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.



TYPICAL SECTION WITHOUT EROSION CONTROL CURB



All dimensions are in Inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-22.01. NEW REVISION BOX	T.P.	3-7-11	Added Detail showing plan view	R.D.
03-01-97	CORRECT STD. NUMBERS IN NOTES PG. 2	J.A.	8-10-12	Revised curb "B" and aggregate	R.D.
11-03-00	CORRECTION TO NOTES	M.A.			
10-16-06	REVISED TO 2007 SPEC.	M.A.			

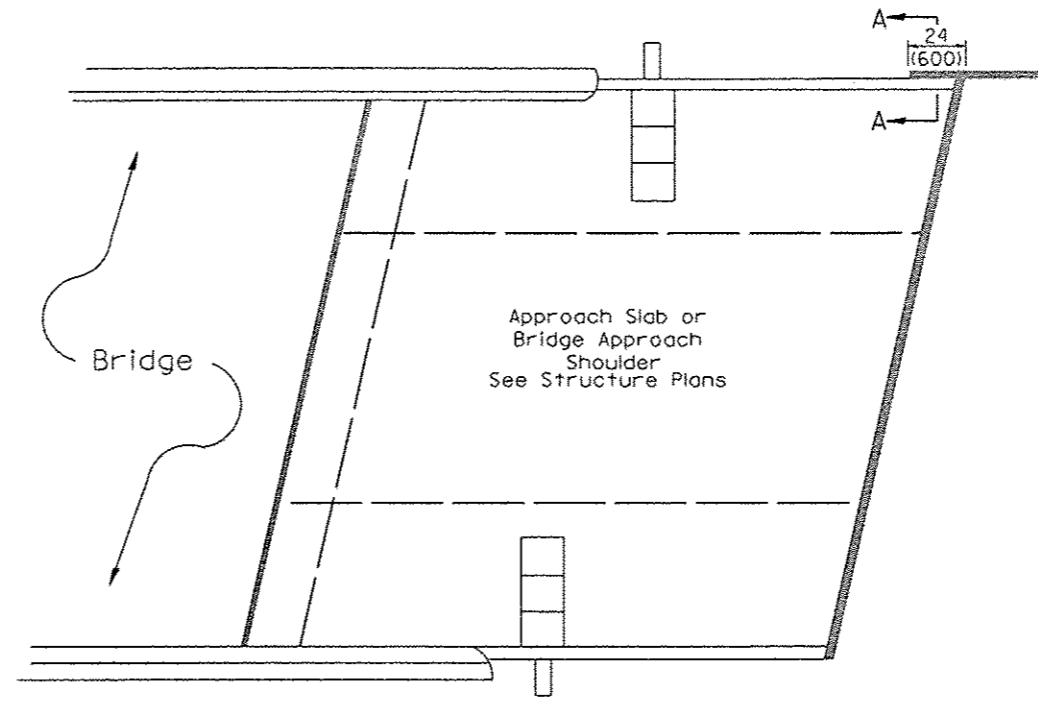
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS

NOT TO SCALE

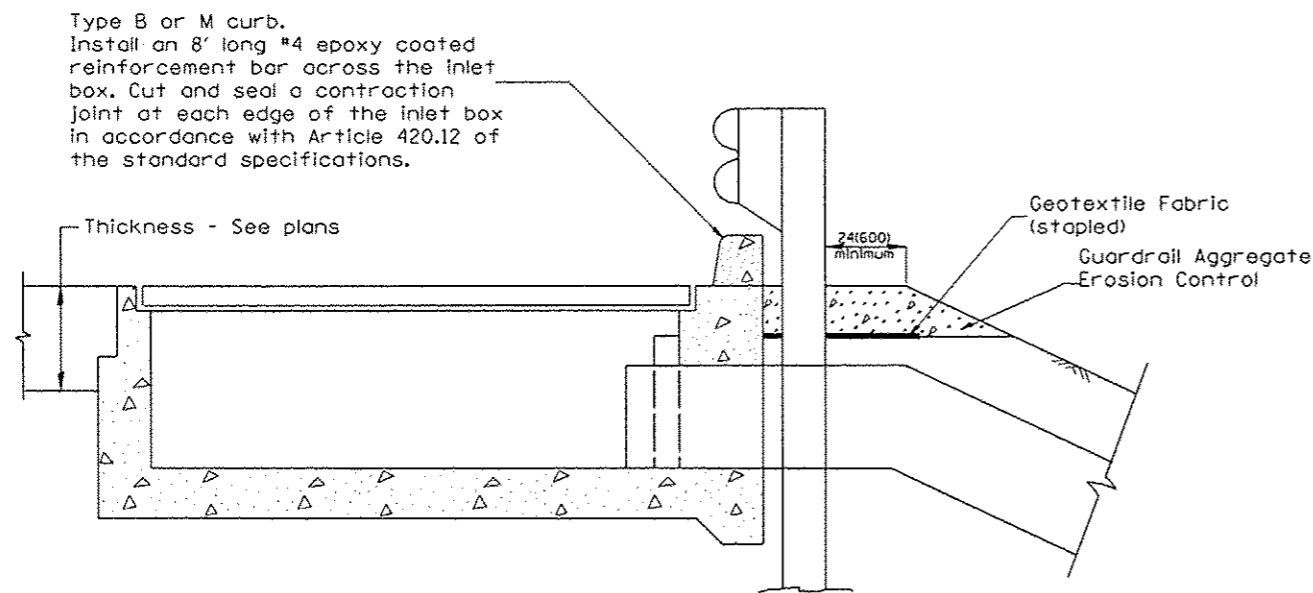
SHT. 1 OF 2
CADD STD. 630101-04

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6779	11-00101-04-BR	KNOX	30	29
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 89611	

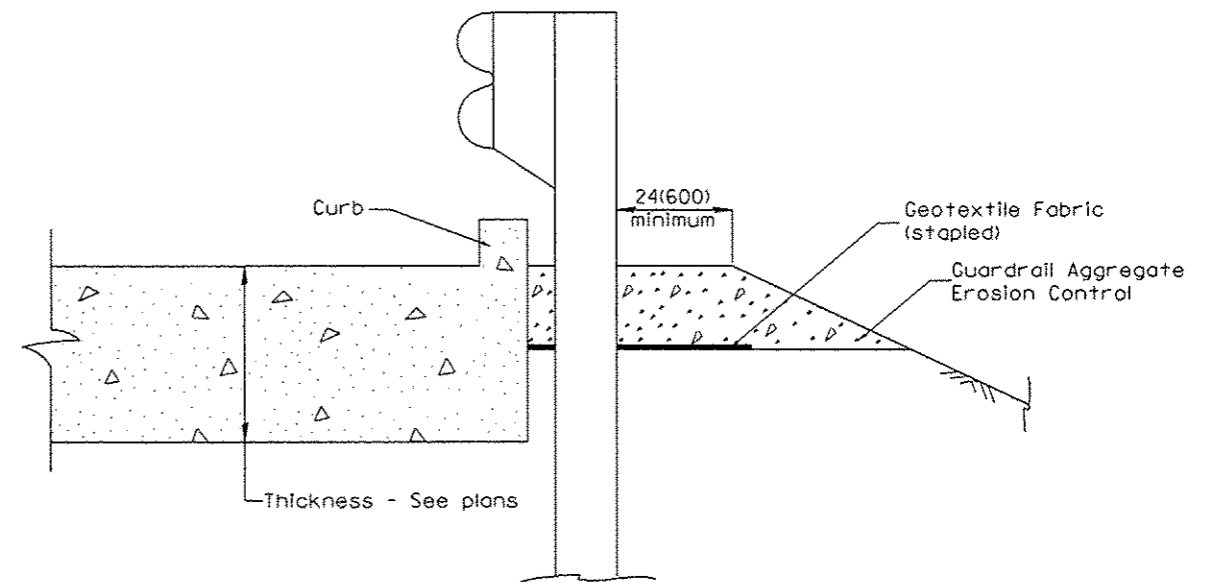


PLAN VIEW

APPROACH SLAB OR BRIDGE APPROACH SHOULDER
(STANDARD 609001 or 609006)



TYPICAL SECTION AT INLETS
TYPE E & F (STANDARD 610001)



SECTION A-A
TYPICAL SECTION WITH BRIDGE APPROACH CURB

All dimensions are in inches (millimeters) unless otherwise noted.

FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GUARDRAIL EROSION CONTROL TREATMENTS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\237\2012\23712000.00 County Line Road Structure Replacement\CADD\CADD Sheets\01 DRAWN-D\standards.dgn	jdsallier	-	-			6779	11-00101-04-BR	KNOX	30	30	
		CHECKED	REVISED			SHT. 2 OF 2					
Default		DATE	REVISED			CONTRACT NO. 89611					
	PLOT SCALE = 100.0000' / 1"			NAD 83 SCALE		SHEET OF SHEETS		STA.		CADD TO EDA. 630101-D4	
						FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			