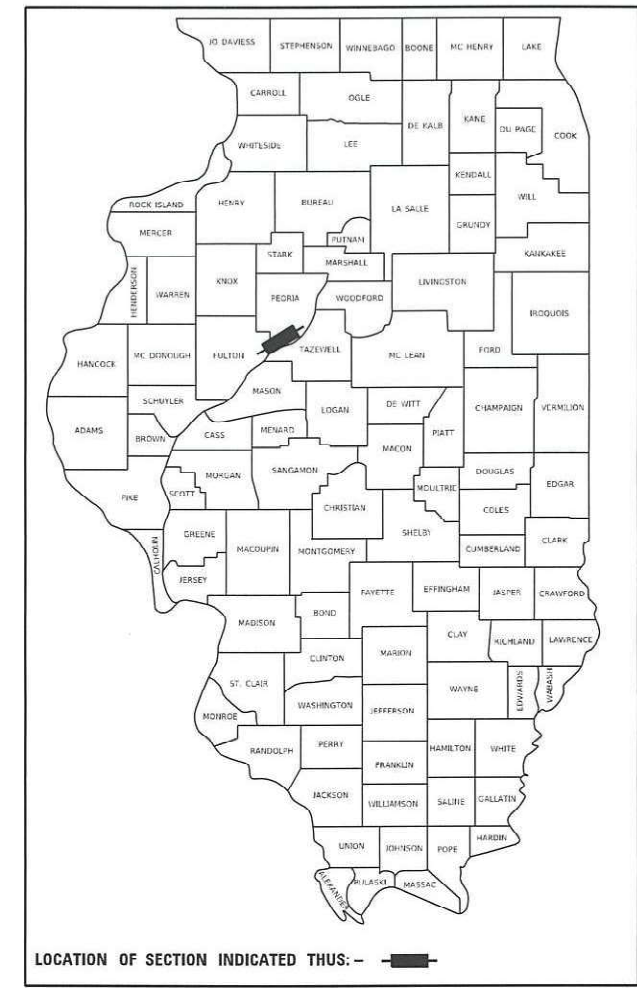


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45RB)BR	PEORIA	86	1
		ILLINOIS	CONTRACT NO. 68E48	

D-94-061-18



LOCATION OF SECTION INDICATED THUS: — ■ —

DESCRIPTION:
 THIS PROJECT CONSISTS OF A SUPERSTRUCTURE REPLACEMENT WITH MINOR SUBSTRUCTURE REPAIRS, CONSTRUCTION OF CROSSOVERS TO MAINTAIN TRAFFIC, ALONG WITH ANY OTHER COLLATERAL WORK NECESSARY TO COMPLETE THIS PROJECT.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED March 19 20 21
Tom O. James
 REGION THREE ENGINEER

May 7, 2021
Scott A. Elk
 ENGINEER OF DESIGN AND ENVIRONMENT

May 7, 2021
James J. Gu
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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 OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

06-11-2021 LETTING ITEM 043

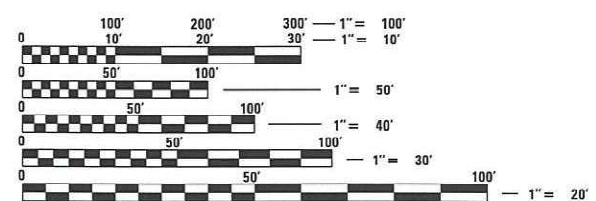
1. COVER SHEET
2. GENERAL NOTES /STATUS OF UTILITIES / HMA MIX REQUIREMENTS
- 3-9. SUMMARY OF QUANTITIES
- 10-11. SCHEDULE OF QUANTITIES
12. LINE DIAGRAM
13. TYPICAL SECTIONS
14. CONTROL POINTS AND BENCHMARKS
15. DETOUR DETAILS
- 16-18. STAGING PLAN
19. REMOVAL PLAN
20. EB US 24 PLAN AND PROFILE
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- 22-24. CROSSOVER PLAN AND PROFILE
- 25-40. CROSSOVER CROSS SECTIONS
- 41-43. TEMPORARY LIGHTING PLANS
- 44-65. STRUCTURE PLANS
- 66-79. OLD STRUCTURE PLANS
- 80-86. DISTRICT CADD STANDARDS

HIGHWAY STANDARDS

420406	642001-02	701428-01
515001-04	701400-10	701901-08
542401-04	701401-12	704001-08
606001-07	701406-12	725001-01
630001-12	701411-09	780001-05
630301-09	701416-11	782006-01
631011-10	701421-08	830026-01
631032-09	701422-10	BLR 21-9

DESIGN DESIGNATION

OTHER ARTERIAL (2019)
 ADT: 11000
 SU: 550
 MU: 525



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.

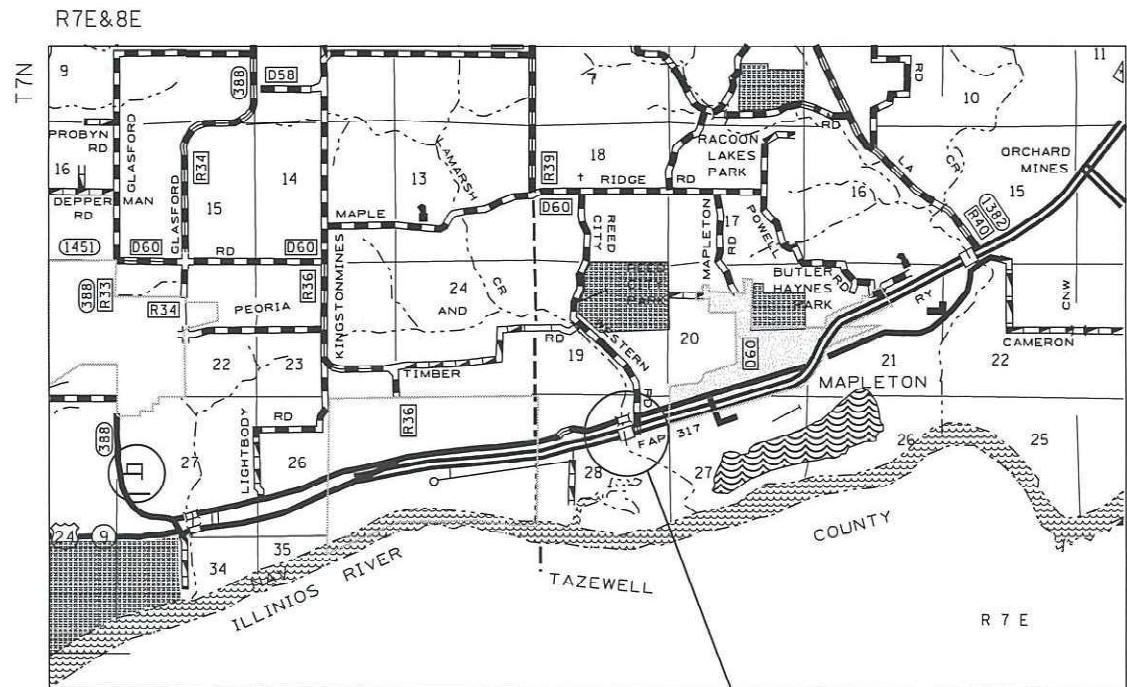
J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
 1-800-892-0123
 OR 811

PROJECT ENGINEER: RICH DOTSON (309) 671-3455
PROJECT MANAGER: ANNA DEVINE (309) 671-3475
CATALOG NO. 035638-00D
CONTRACT NO. 68E48

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**PROPOSED
 HIGHWAY PLANS**

FAP ROUTE 317 (US 24/L 9)
 SECTION (45RB)BR
 PROJECT NHPP-8IZM(509)
 BRIDGE REHABILITATION
 PEORIA COUNTY
 C-94-083-18



GROSS LENGTH = 3,150.0 FT. = 0.597 MILE
 NET LENGTH = 3,150.0 FT. = 0.597 MILE

COMMITMENTS

Commitments are not to be altered without the written approval of all parties to which the commitment was made.

THERE ARE NO COMMITMENTS

ENVIRONMENTAL REVIEWS

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

The required environmental resource documentation shall include the following:

- * BDE Form 2289 (Borrow Site Review)
- * BDE Form 2290 (Waste/Use Area Review)
- * A location map showing the size limits and location of the use area
- * Color photographs depicting the use area
- * Borrow Area Entry Agreement form – D4 PI0101

Prior to any waste materials being removed from the construction site the required environmental resource surveys shall be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

Please note that a minimum of four weeks shall be allowed for the District to obtain the required waste site environmental clearances and six weeks for the required borrow site environmental clearances.

BUTT JOINT CUTTING TIME RESTRICTION

Butt joints shall not be milled more than three (3) days prior to placement of the HMA surface course.

ORDERING LENGTH CONFIRMATION – DRAINAGE ITEMS

The Contractor shall consult with the Engineer in regard to the exact length of the box/pipe culverts, storm sewers, and/or pipe drains required prior to ordering these items.

STATUS OF UTILITIES						
ROUTE	LOCATION	MIN. DEPTH	COMPANY	TYPE OF UTILITY	TYPE OF CONFLICT	DISPOSITION
US 24	12" STL High Pressure line, parallel on south side of US 24. 63' min. offset from center of SN 072-0008	30"	Ameren Gas	Gas	Traffic Control Signs	CAUTION
Reed City Road	2" STL line, T-intersects with the 12" STL High Pressure line. Runs parallel to Reed City Road, 30' east of sideroad centerline.	30"	Ameren Gas	Gas	Traffic Control Signs & Construction of eastern crossover	CAUTION
Wheeler Road	parallel to Wheeler Road (frontage road) on south side	18"	Glassford Telephone	Buried-Fiber	For Information Only	
Wheeler Road	parallel to Wheeler Road (frontage road) on north side	36"	TL Water District	Water	For Information Only	

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

The following mixture requirements are applicable for this project:					
Mixture Use(s):	Mainline Pavement Taper (Top Lift)	Mainline Pavement Taper (Lower Lifts)	Cross-Over (Surface Lift 1.75")	Cross-Over (Lower Lifts 4" and 2.25")	HMA Shoulders
AC/PG:	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
Design Air Voids:	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50
Mixture Composition: (Mixture Gradation)	IL 9.5	IL 9.5	IL 9.5	IL 19.0	IL 9.5
Friction Aggregate:	Mix D	N.A.	Mix D	N.A.	Mix C
Quality Management Program:	QCQA	QCQA	QCQA	QCQA	QCQA
<i>Note:</i>					
1) 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, unless					
2) For design purposes, mixture weight for all mixes is determined to be 112.0 lb/s.y./in., unless otherwise noted.					
3) Sublot sizes for PFP and QCP mixes will be 1000 tons, unless otherwise agreed to by the Engineer and the paving contractor.					

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES /STATUS OF UTILITIES /HMA MIX REQUIREMENTS

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	2
CONTRACT NO. 68E48				
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				0004	0013	0021
				ROADWAY	BRIDGE	LIGHTING
				80% FED	80% FED	80% FED
				20% STATE	20% STATE	20% STATE
20200100	EARTH EXCAVATION	CU YD	35	35		
20300100	CHANNEL EXCAVATION	CU YD	207		207	
20400800	FURNISHED EXCAVATION	CU YD	145	145		
21400100	GRADING AND SHAPING DITCHES	FOOT	300	300		
25000210	SEEDING, CLASS 2A	ACRE	0.5	0.5		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45	45		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45		
25100105	MULCH, METHOD 1	ACRE	0.5	0.5		
28000305	TEMPORARY DITCH CHECKS	FOOT	120	120		
28100109	STONE RIPRAP, CLASS A5	SQ YD	630		630	
28200200	FILTER FABRIC	SQ YD	630		630	
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	738	738		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	7708	7708		

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	3
CONTRACT NO. 68E48			ILLINOIS FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
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				ROADWAY	BRIDGE	LIGHTING
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
40600982	HOT - MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	873	873		
40602978	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50	TON	74	74		
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	74	74		
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	131	131		
44000155	HOT - MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	288	288		
44000156	HOT - MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	4485	4485		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	122	122		
48101200	AGGREGATE SHOULDERS, TYPE B	TON	67	67		
48203100	HOT - MIX ASPHALT SHOULDERS	TON	587	587		
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1		1	
50102400	CONCRETE REMOVAL	CU YD	5.6		5.6	
50105220	PIPE CULVERT REMOVAL	FOOT	210	210		
50200100	STRUCTURE EXCAVATION	CU YD	16		16	
50300225	CONCRETE STRUCTURES	CU YD	47.8		47.8	

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PLOT DATE = 3/18/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	4
CONTRACT NO. 68E48			ILLINOIS FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				0004	0013	0021
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				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
50300260	BRIDGE DECK GROOVING	SQ YD	853		853	
50300300	PROTECTIVE COAT	SQ YD	853		853	
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	123.1		123.1	
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	5142		5142	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	58740		58740	
50901050	STEEL RAILING, TYPE SM	FOOT	306		306	
51500100	NAME PLATES	EACH	1		1	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	86		86	
5421D015	PIPE CULVERTS, CLASS D, TYPE 1 15" (TEMPORARY)	FOOT	210	210		
54261715	STEEL FLARED END SECTIONS 15"	EACH	2	2		
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	16		16	
59000200	EPOXY CRACK INJECTION	FOOT	35		35	
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	188	188		
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	2	2		

*= SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68E48	

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				ROADWAY	BRIDGE	LIGHTING
				80% FED	80% FED	80% FED
				20% STATE	20% STATE	20% STATE
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2		
63200310	GUARDRAIL REMOVAL	FOOT	474	474		
63800920	MODULAR GLARE SCREEN SYSTEM, TEMPORARY	FOOT	1400	1400		
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	4095	4095		
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	35	35		
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2		
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1		
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1		
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	3	3		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	13	13		
67100100	MOBILIZATION	L SUM	1	1		
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1		
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1	1		
70100410	TRAFFIC CONTROL AND PROTECTION, STANDARD 701416	EACH	1	1		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68E48	

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				ROADWAY	BRIDGE	LIGHTING
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2	2		
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	4107	4107		
70107007	PAVEMENT MARKING BLACKOUT TAPE, 7"	FOOT	226	226		
70107009	PAVEMENT MARKING BLACKOUT TAPE, 9"	FOOT	198	198		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	88	88		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	5456	5456		
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	11330	11330		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1400	1400		
70500100	TEMPORARY STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	100	100		
70500615	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	1	1		
70500670	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	1	1		
70600305	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, RESETTABLE), TEST LEVEL 3	EACH	1	1		
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	3	3		
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	5259	5259		

*= SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	7
CONTRACT NO. 68E48			ILLINOIS FED. AID PROJECT	

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				ROADWAY	BRIDGE	LIGHTING
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	210	210		
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	198	198		
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	42	42		
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	12	12		
X4400110	TEMPORARY PAVEMENT REMOVAL	SQ YD	851	851		
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	223	223		
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	573		573	
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1		
X8410102	TEMPORARY LIGHTING SYSTEM	L SUM	1			1
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	88	88		
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	15		15	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	58.5		58.5	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1	
Z0016702	DETOUR SIGNING	L SUM	1	1		

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	8
CONTRACT NO. 68E48			ILLINOIS FED. AID PROJECT	

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				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
Z0062456	TEMPORARY PAVEMENT	SQ YD	851	851		
∅ Z0076600	TRAINEES	HOUR	1,000	1,000		
∅ Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	1,000	1,000		

∅ 0042

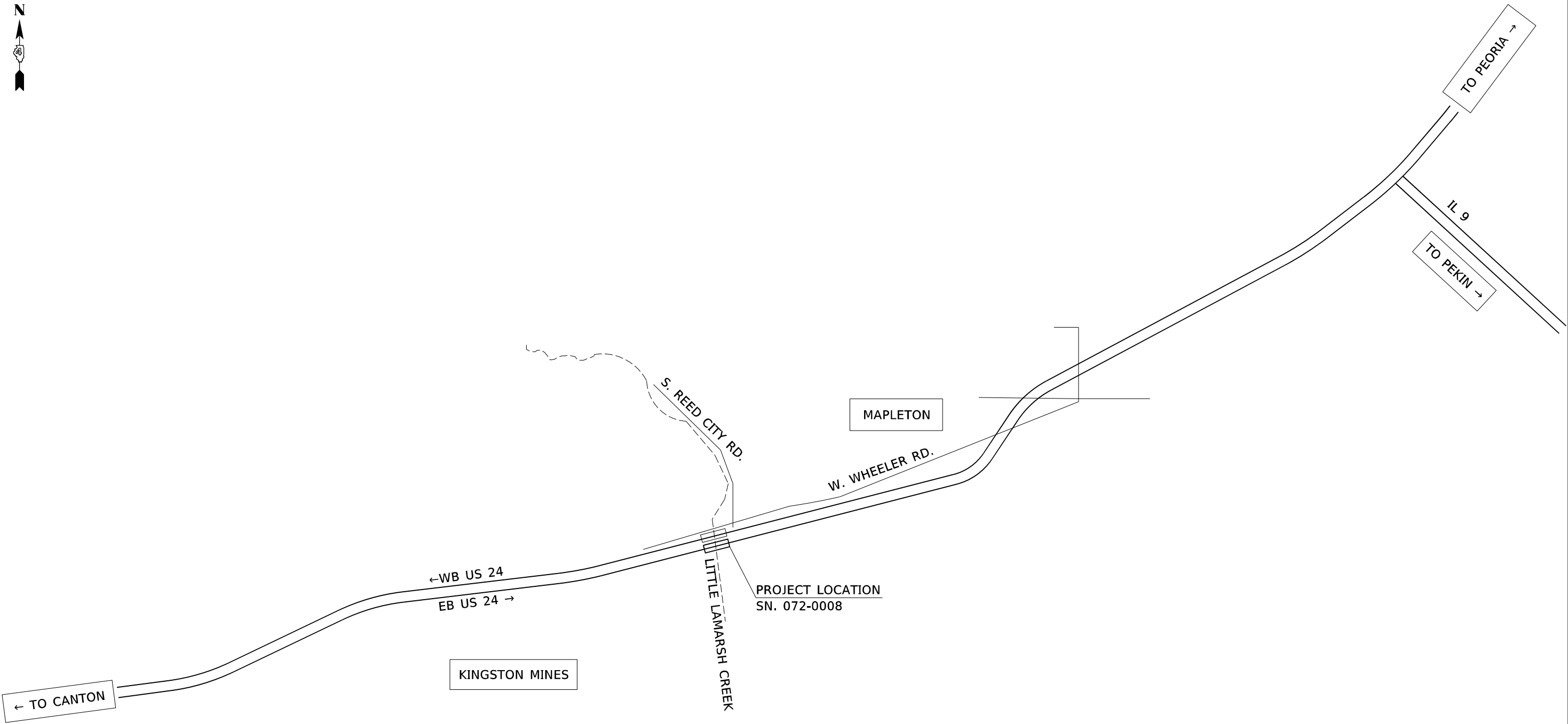
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68E48	



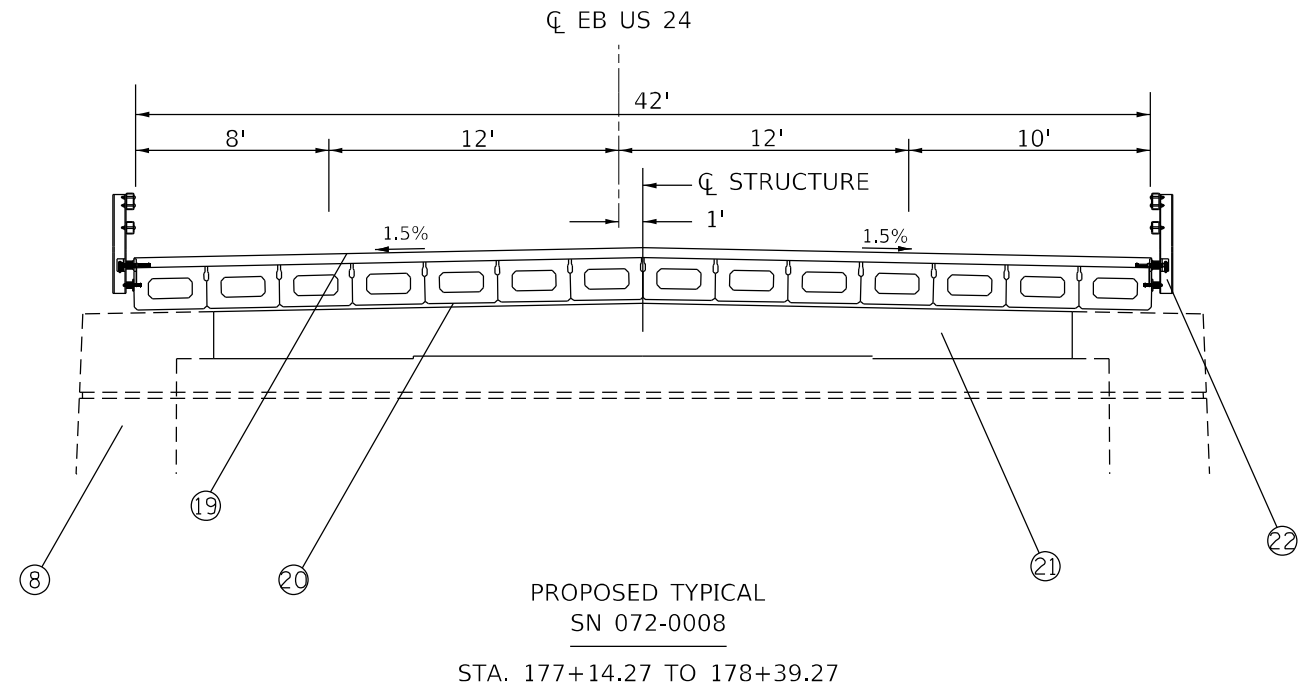
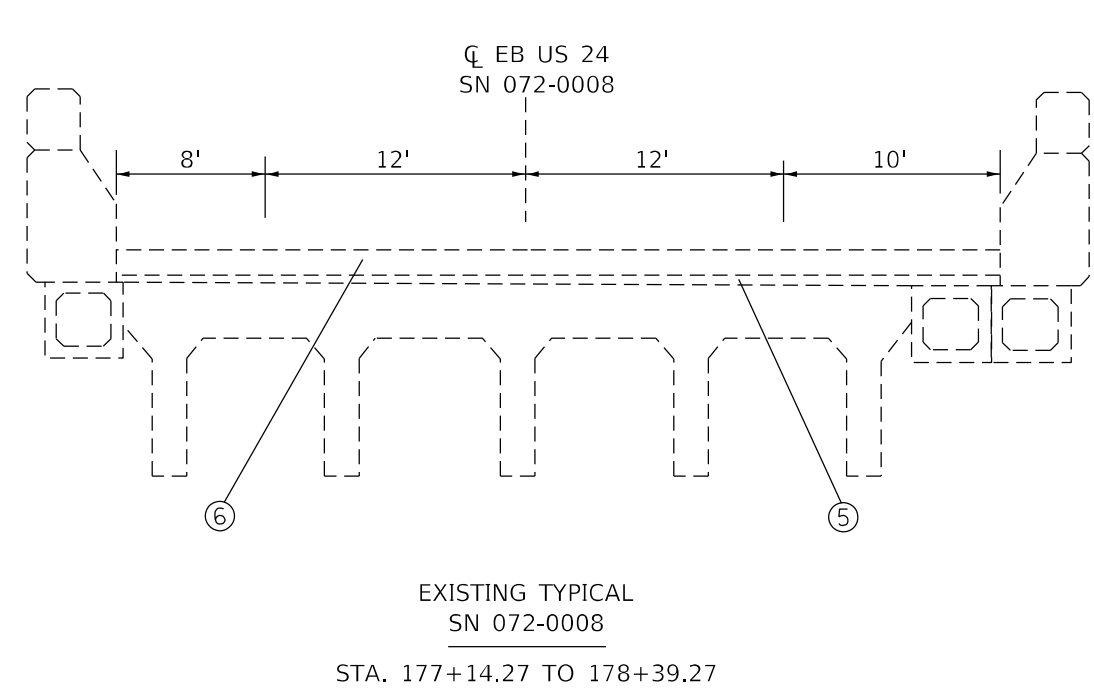
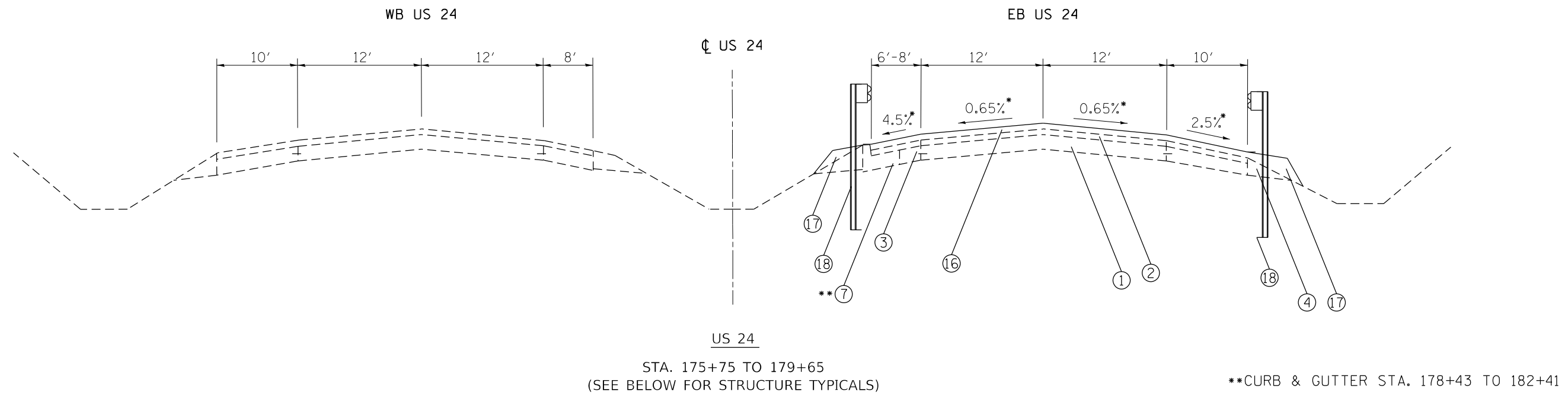
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PLOT DATE = 3/18/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LINE DIAGRAM			
SCALE:	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	12
CONTRACT NO. 68E48			ILLINOIS FED. AID PROJECT	



EXISTING ITEMS		PROPOSED ITEMS	
①	PCC PAVEMENT, 10"	⑬	VAR. DEPTH HMA (BUTT-JOINT)
②	HMA OVERLAYS, ±4.25"	⑭	GUARDRAIL AGG
③	HMA SHOULDERS, ±13"	⑮	GUARDRAIL
④	AGG SHOULDERS	⑯	CONC. WEARING SURF. (5" MIN.)
⑤	WATERPROOFING MEMBRANE SYSTEM	⑰	PPC DECK BEAM 21" DEPTH
⑥	HMA, 3"	⑱	BEARING SEAT EXTENSION
⑦	CC&G	⑲	STEEL RAILING TYPE SM
⑧	PIER WIDENING ON STEEL H-PILES		

* MATCH EXISTING CROSS SLOPE

NOT DRAWN TO SCALE

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS			
SCALE:	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	13
CONTRACT NO. 68E48				
ILLINOIS FED. AID PROJECT				

WGS84
 ILSPC83W('11)
 NAVD88
 GEOID 12A
 COMB. FACTOR + 0.999922

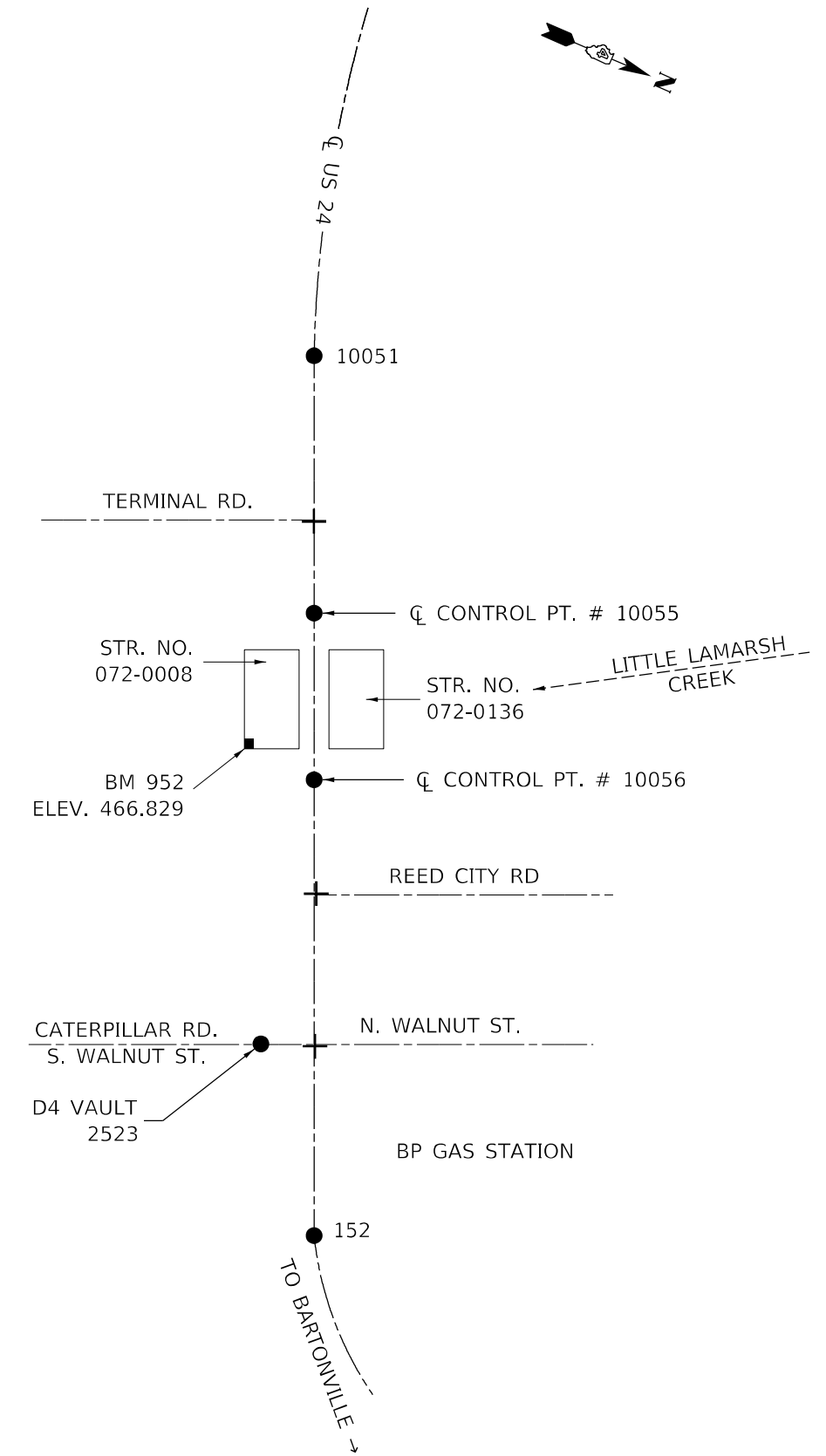
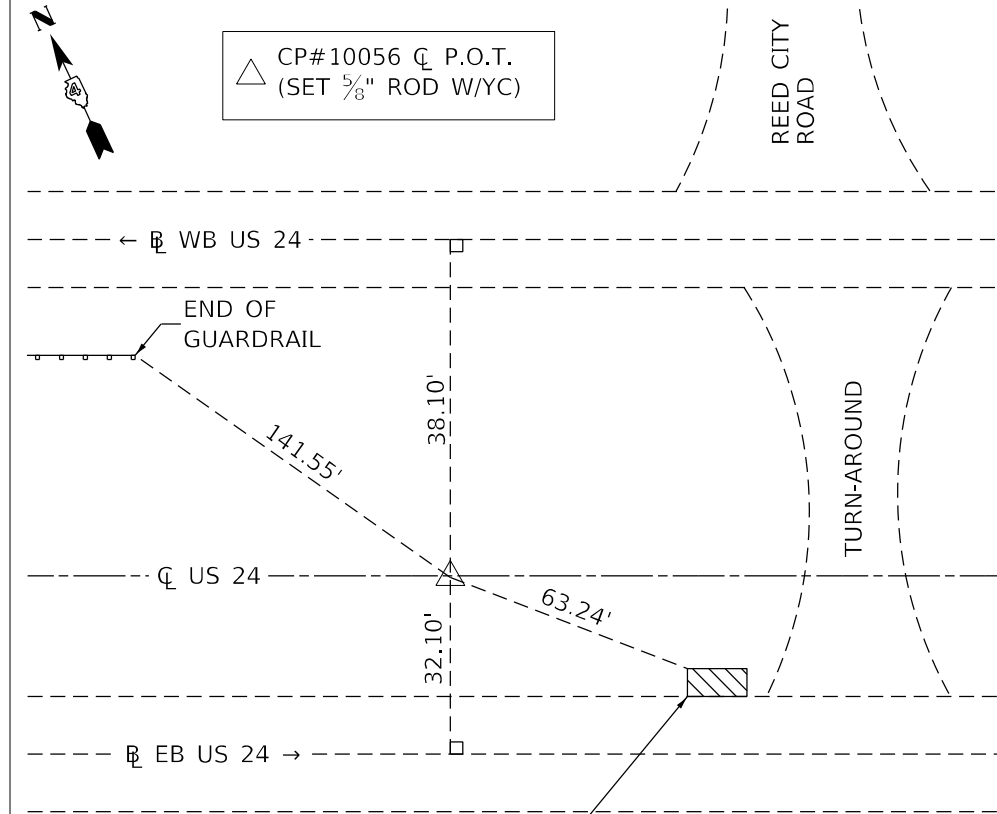
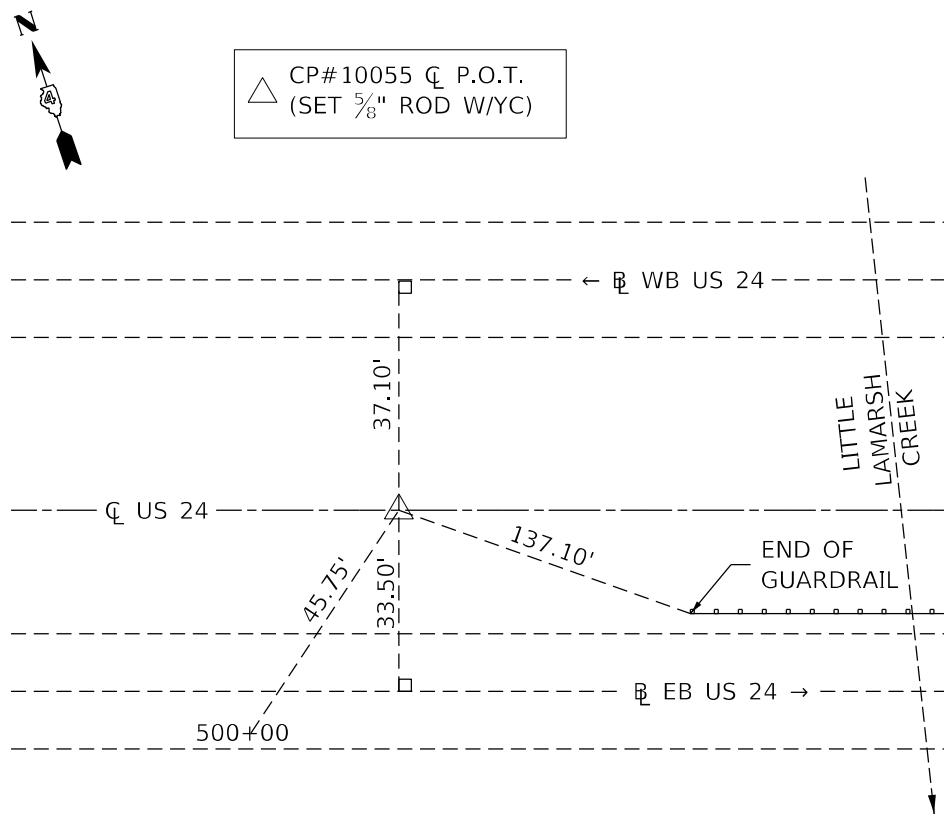
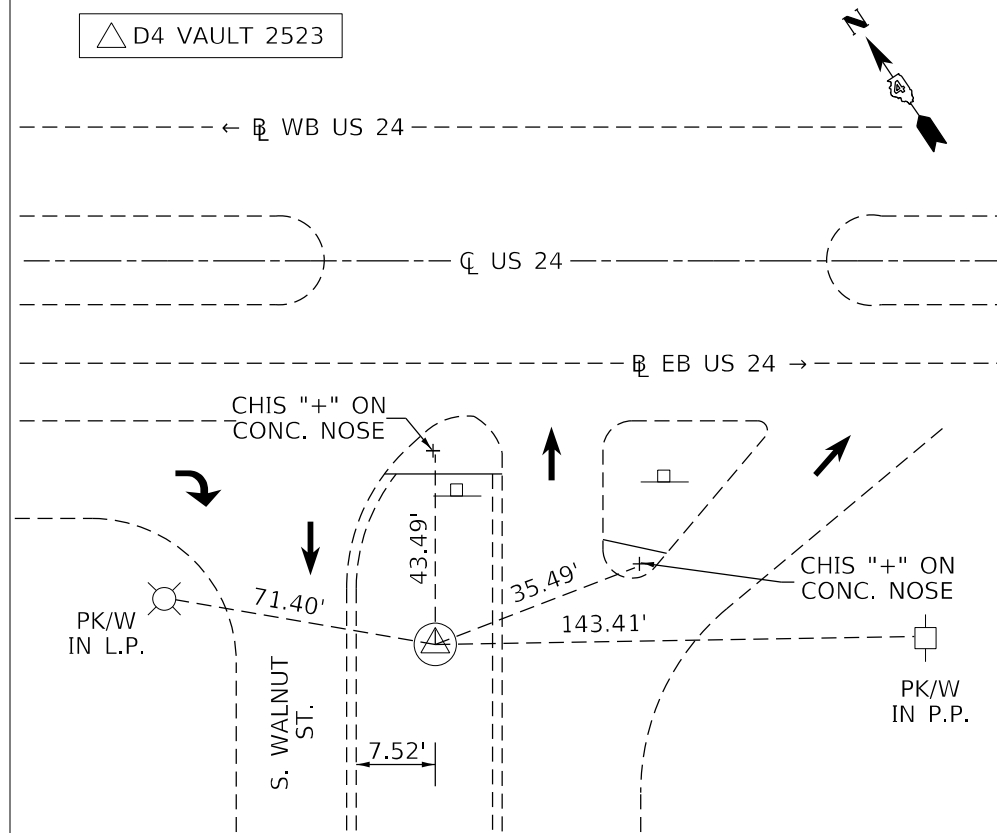
MASTER CONTROL POINTS
 (GRID)

D4 VAULT 2523
 N: 1419990.969
 E: 2417586.704
 ELEV. 465.873'

CP 10055 (C P.O.T.)
 N: 1419119.725
 E: 2413849.289

CP 10056 (C P.O.T.)
 N: 1419283.466
 E: 2414478.274

IDOT FIELD BOOK: US 24/IL 9 MAPLETON LITTLE LAMARSH CREEK



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

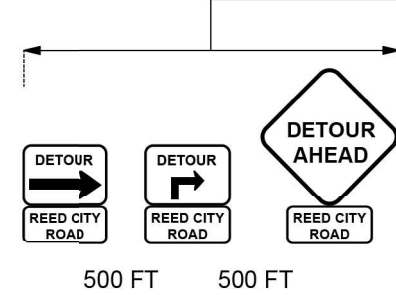
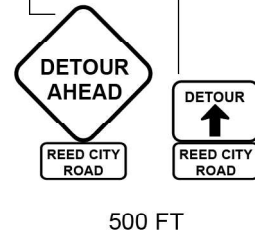
CONTROL POINTS AND BENCHMARKS		
SCALE:	SHEET 1 OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	14
CONTRACT NO. 68E48				
ILLINOIS FED. AID PROJECT				

REED CITY ROAD DETOUR



ALL SIGNS SHALL BE GROUND POST MOUNTED.



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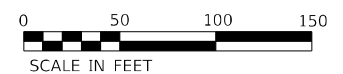
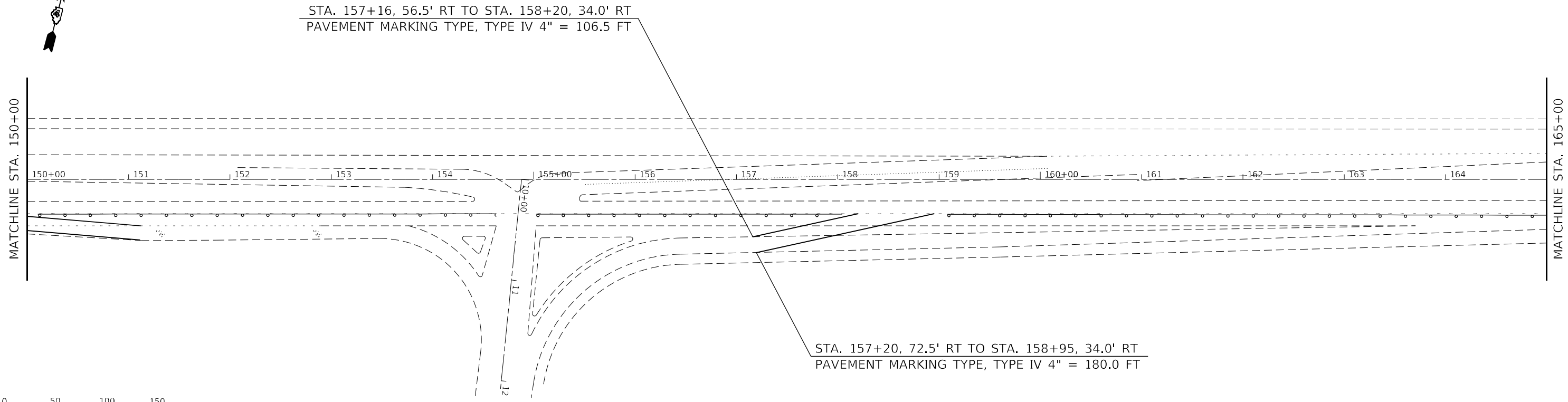
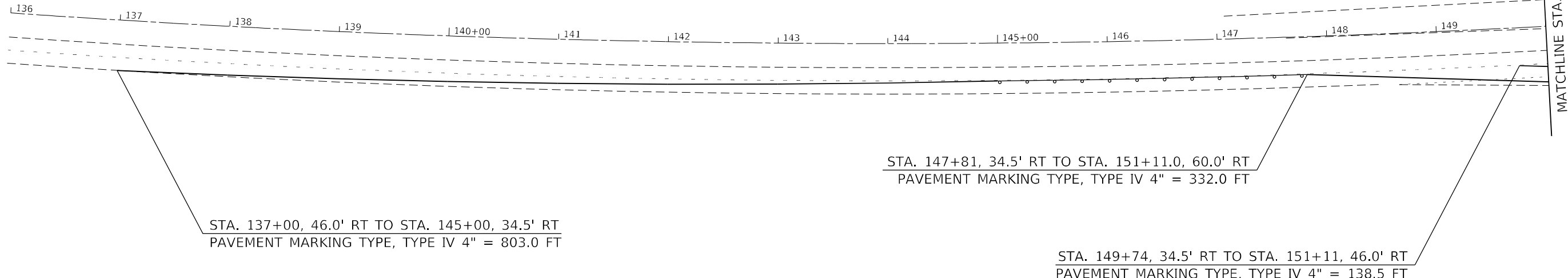
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PLOT DATE = 3/18/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR DETAILS

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	15
CONTRACT NO. 68E48				
ILLINOIS FED. AID PROJECT				



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 ILLINOIS DOT
 PROJECT: 68E48
 SHEET: 16
 DATE: 3/18/2021

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PLOT DATE = 3/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGING PLAN			
SCALE:	SHEET 1	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	16
CONTRACT NO. 68E48				
ILLINOIS FED. AID PROJECT				



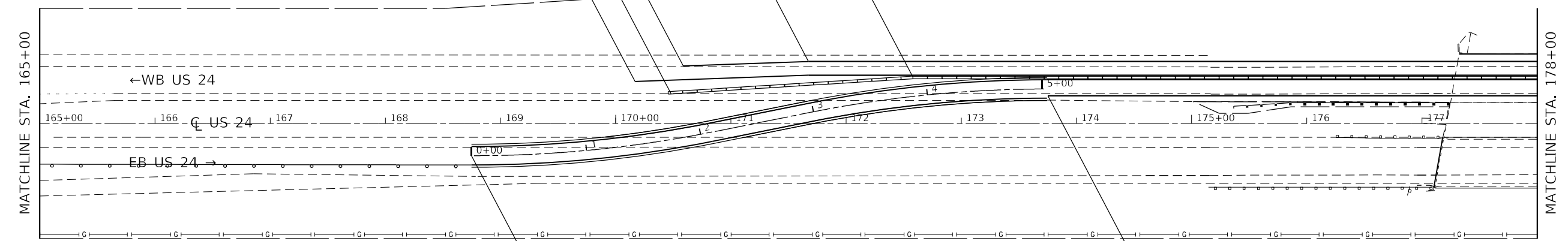
STA. 172+58.0 TO STA. 182+45.5, 40' LT
TEMP. CONCRETE BARRIER = 987.5 FT.

STA. 171+67 TO STA. 181+52
PAVEMENT MARKING TYPE, TYPE IV 4" = 4455.5 FT

STA. 170+58, 50' LT, TO STA. 171+67, 54'LT
PAVEMENT MARKING TYPE, TYPE IV 4" = 109.0 FT

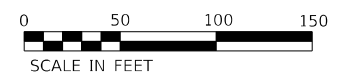
STA. 170+48.0, 26.5' LT TO STA. 172+58.0, 40' LT
TEMP. CONCRETE BARRIER = 210.0 FT.

STA. 170+17, 36.5' LT TO STA. 181+52, 42' LT
PAVEMENT MARKING TYPE, TYPE IV 4" = 151.0 FT



STA. 173+75 TO STA. 181+52
PAVEMENT MARKING TYPE, TYPE IV 4" = 1556.5 FT

CROSSOVER 1
PAVEMENT MARKING TYPE, TYPE IV 4" = 1008.0 FT



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 OFFICE: DISTRICT 4
 PROJECT ID: 68E48
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	DATE -	REVISED -

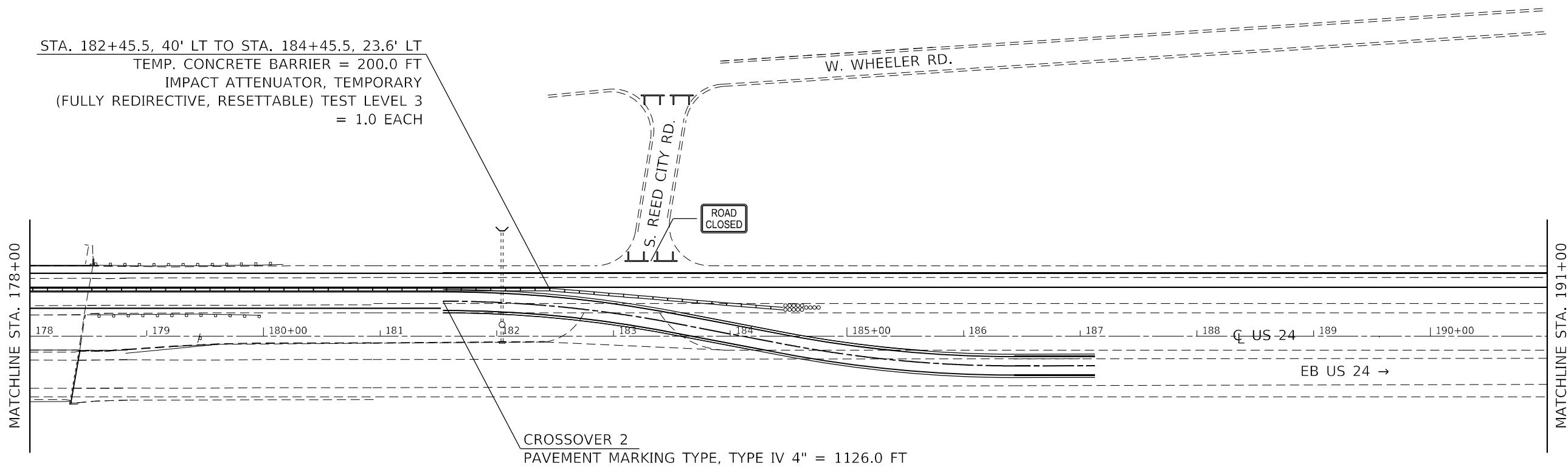
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING PLAN			
SCALE:	SHEET 2	OF 3	SHEETS
STA.		TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	17
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68E48	



STA. 182+45.5, 40' LT TO STA. 184+45.5, 23.6' LT
 TEMP. CONCRETE BARRIER = 200.0 FT
 IMPACT ATTENUATOR, TEMPORARY
 (FULLY REDIRECTIVE, RESETTABLE) TEST LEVEL 3
 = 1.0 EACH



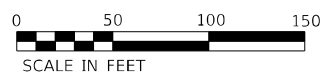
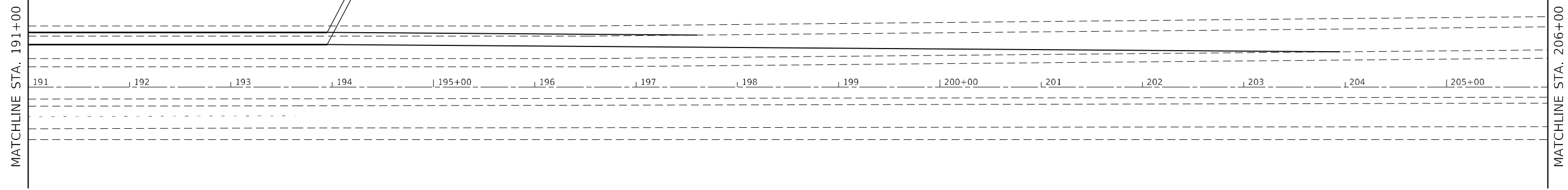
CROSSOVER 2
 PAVEMENT MARKING TYPE, TYPE IV 4" = 1126.0 FT



W. WHEELER RD.

STA. 193+95, 54' LT TO STA. 197+60, 51' LT
 PAVEMENT MARKING TYPE, TYPE IV 4" = 365.0 FT

STA. 193+95, 42' LT TO STA. 203+95, 34.5' LT
 PAVEMENT MARKING TYPE, TYPE IV 4" = 1000.0 FT



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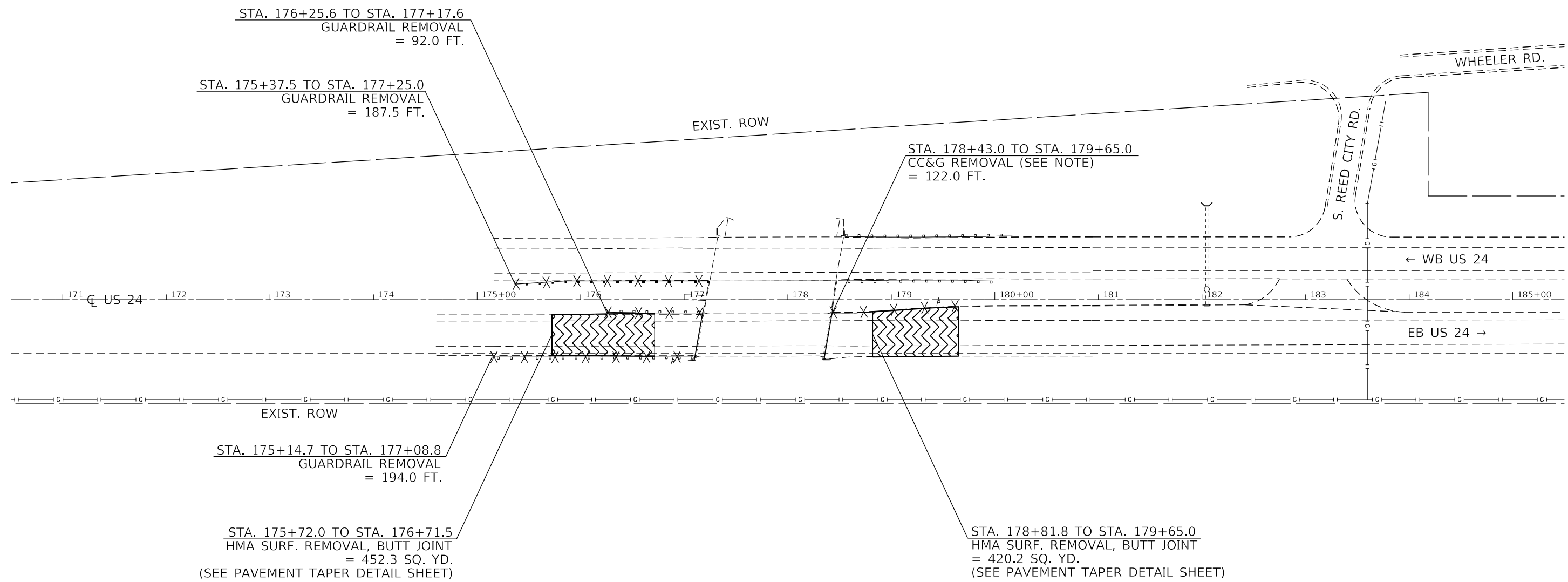
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	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STAGING PLAN

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	18
CONTRACT NO. 68E48				
ILLINOIS FED. AID PROJECT				



LEGEND

HMA SURF. REMOVAL - BUTT JOINT



NOTE:
IN THE LAST 2' OF CC&G REMOVAL,
THE CONTRACTOR SHALL TAPER REMOVAL
TO MAKE A SMOOTH TRANSITION.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

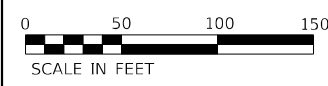
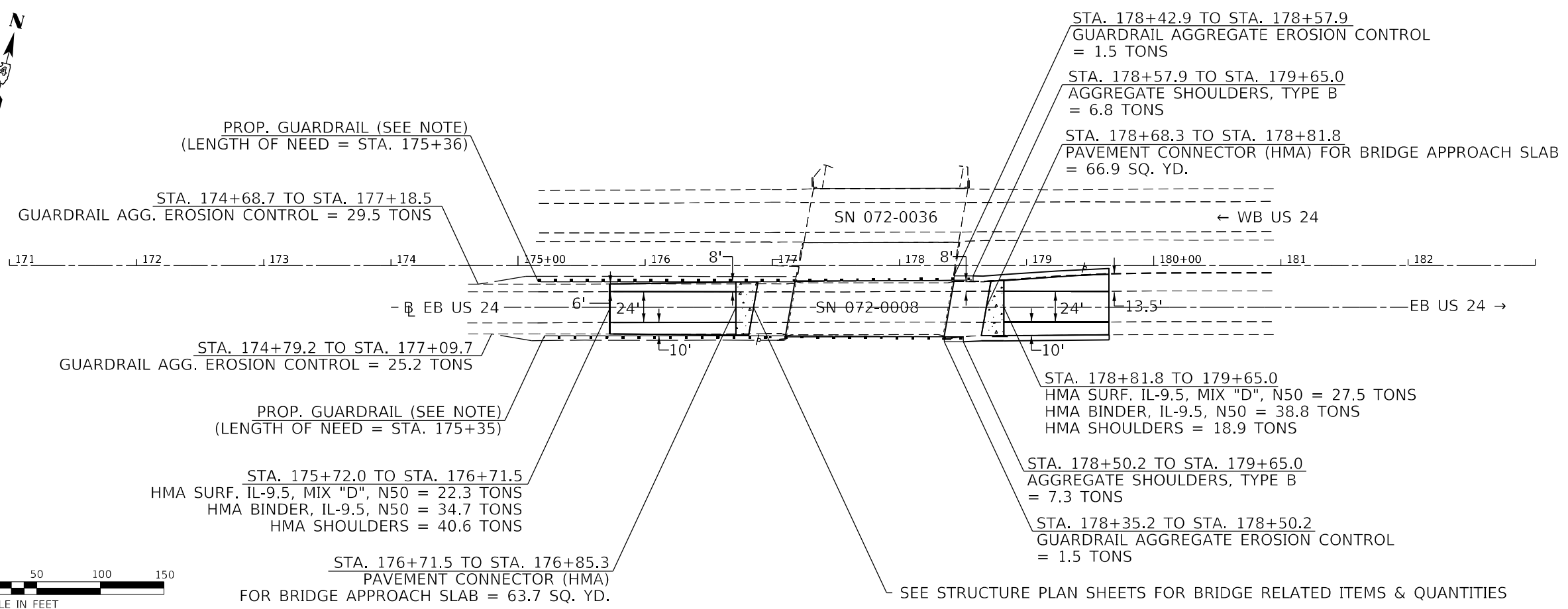
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317	45(RB)BR	PEORIA	86	19
CONTRACT NO. 68E48				
ILLINOIS FED. AID PROJECT				



DATE	
BY	
PLAN	
NO.	
NO.	
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DATE	
BY	
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GUARDRAIL NOTES:
(RT. & LT. OF EB US 24)

RT. STA. 175+20.8 TO 175+70.8
 TRAFFIC BARRIER TERMINAL, TYPE 1
 (SPECIAL), TANGENT = 1.0 EACH

RT. STA. 175+70.8 TO 176+58.3
 SPBG, TYP A = 87.5 FT.

RT. STA. 176+58.3 TO 176+95.8
 TRAFFIC BARRIER TERMINAL, TYPE 6A
 = 1.0 EACH

SEE BRIDGE PLANS FOR
 TYPE SM RAIL

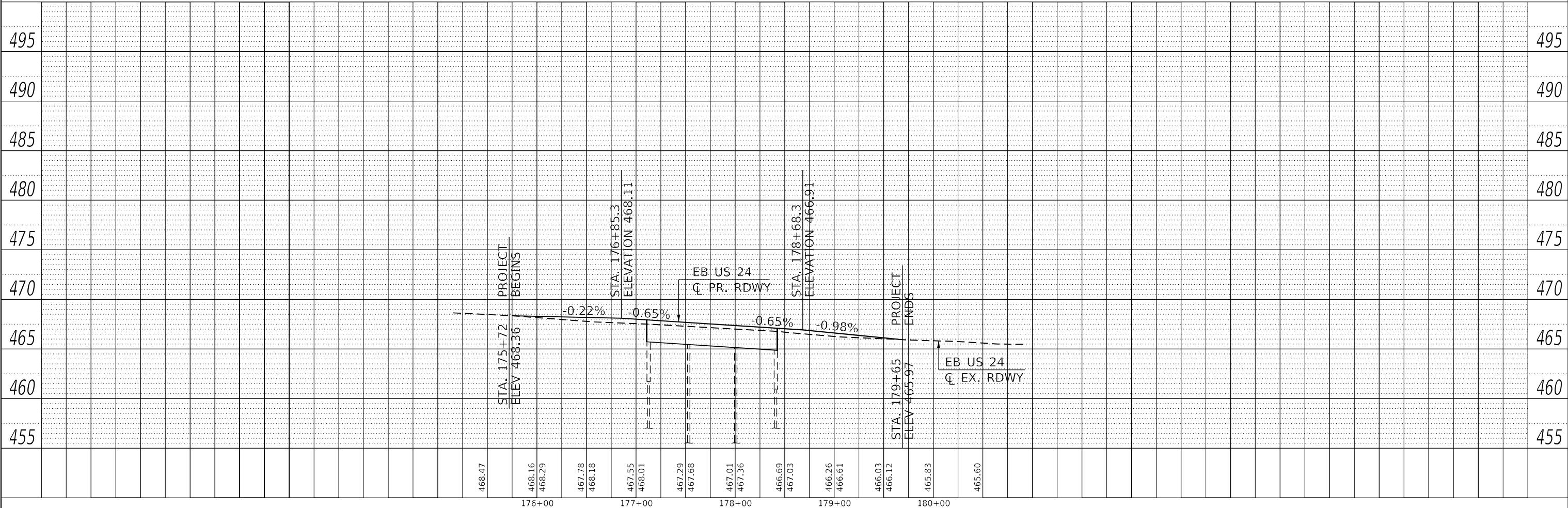
LT. STA. 175+16.1 TO 175+66.1
 TRAFFIC BARRIER TERMINAL, TYPE 1
 (SPECIAL), TANGENT = 1.0 EACH

LT. STA. 175+66.1 TO 176+66.1
 SPBG, TYP A = 100.0 FT

LT. STA. 176+66.1 TO 177+03.6
 TRAFFIC BARRIER TERMINAL, TYPE 6A
 = 1.0 EACH

LEGEND

PAVEMENT CONNECTOR (HMA)
 FOR BRIDGE APPROACH SLAB



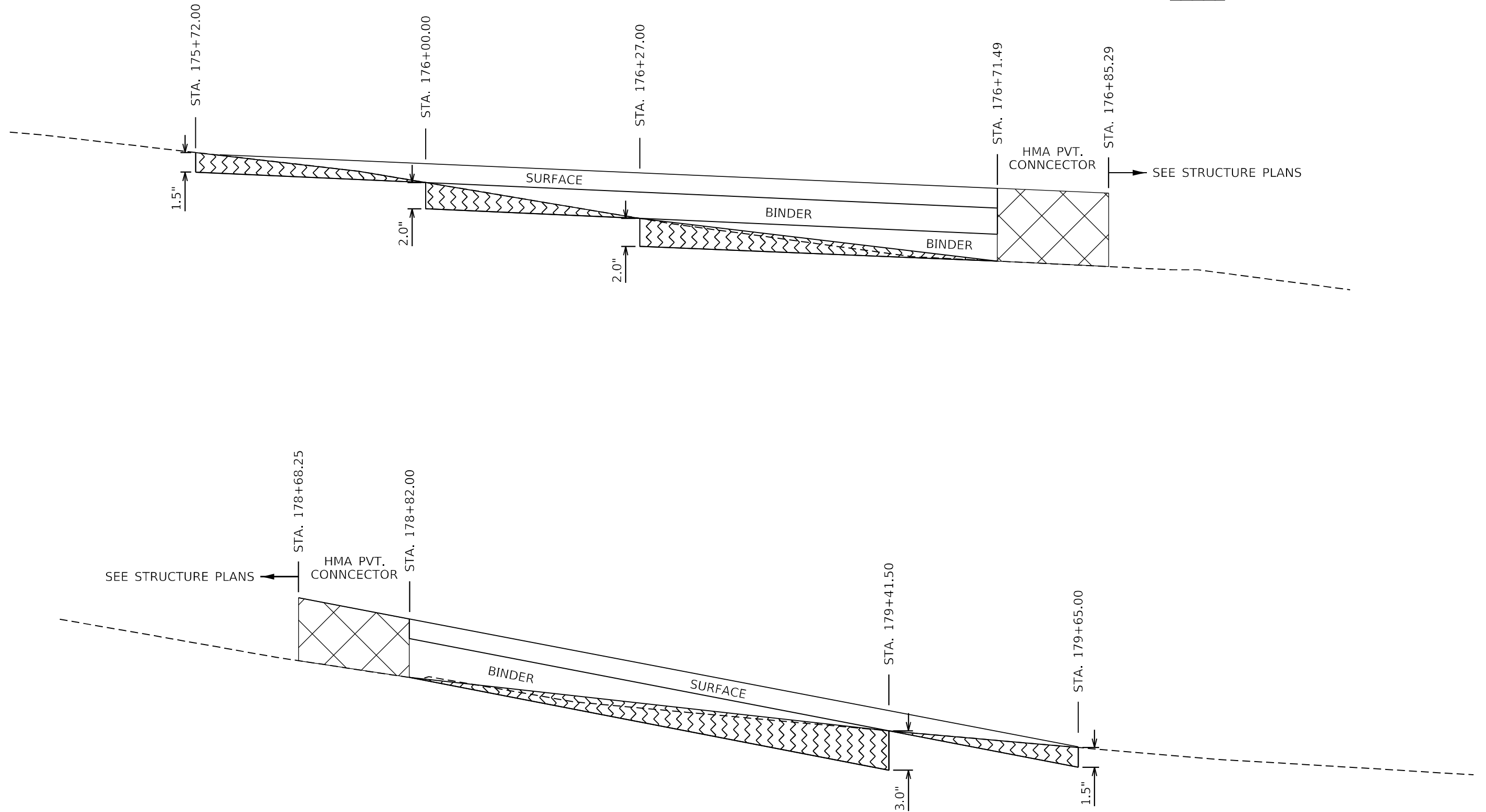
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB US 24 (SN 072-0008)			
PLAN AND PROFILE			
SCALE:	SHEET 1	OF 1 SHEETS	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	20
CONTRACT NO. 68E48				
ILLINOIS		FED. AID PROJECT		

 HMA SURF. REMOVAL, BUTT JOINT



DRAWING NOT TO SCALE

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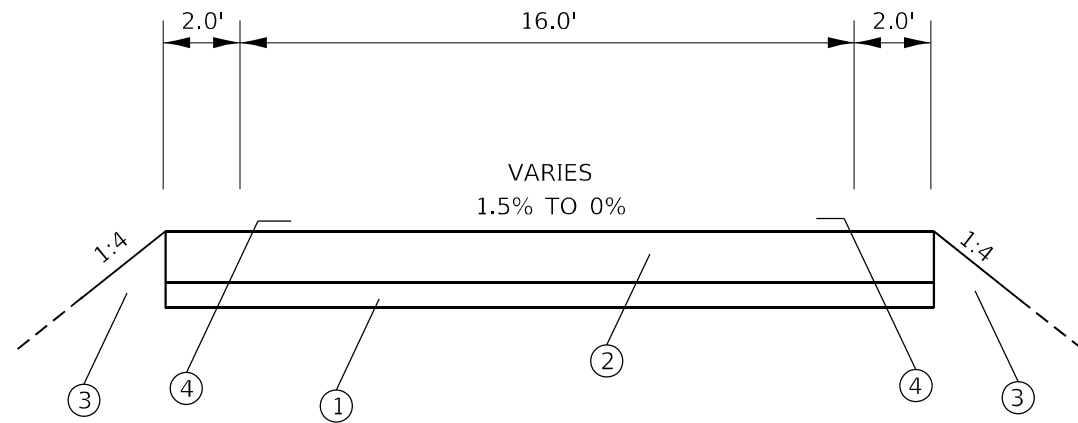
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PLOT DATE = 3/18/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT TAPER DETAILS

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	21
CONTRACT NO. 68E48				
ILLINOIS FED. AID PROJECT				



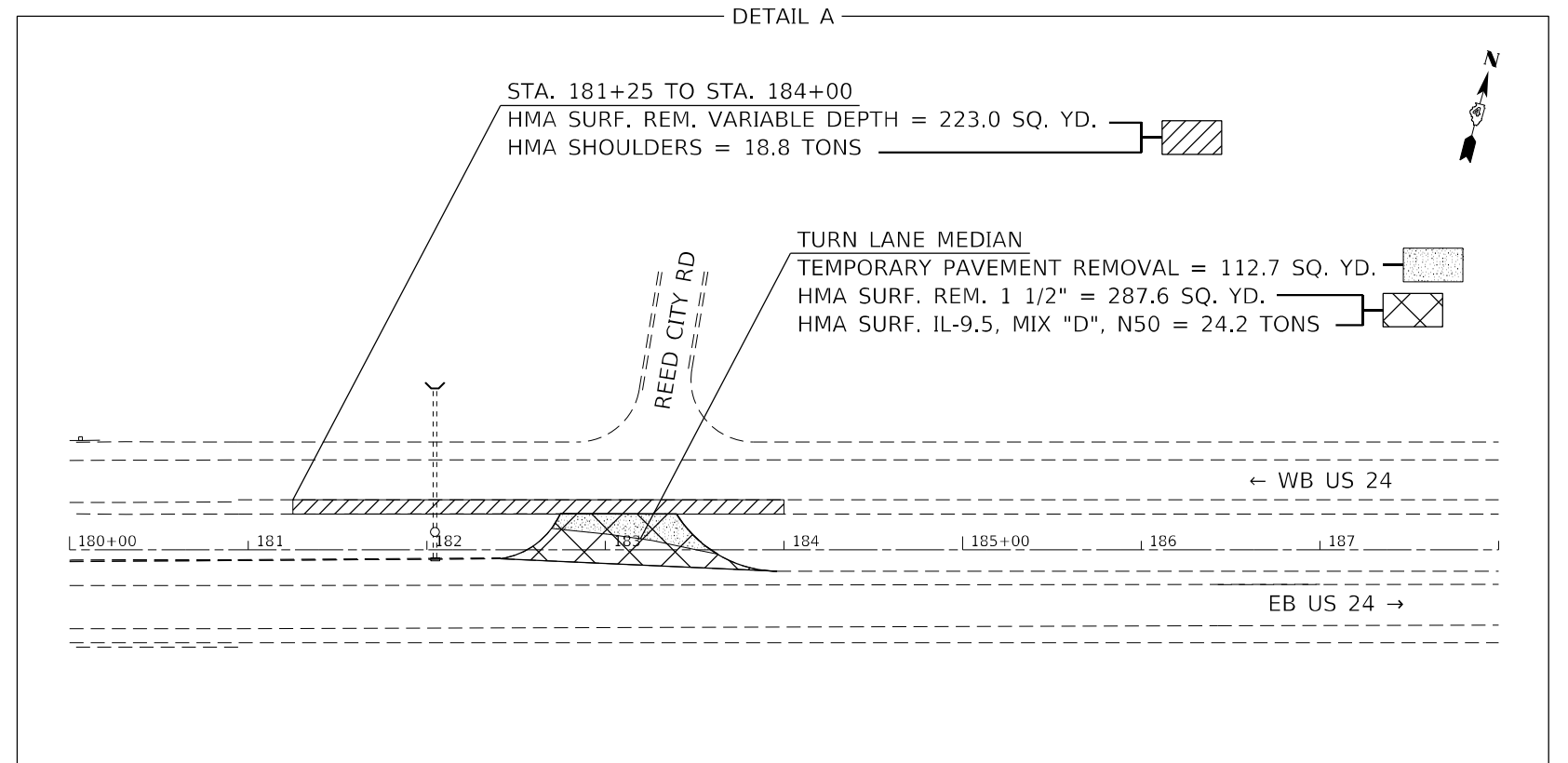
CROSSOVER TYPICAL

PROPOSED ITEMS

- ① SUBBASE MATERIAL, TYPE A 4"
- ② TEMPORARY PAVEMENT (8" HMA or 7.5" PCC)
- ③ EARTH SLOPE
- ④ PAVEMENT MARKING

CROSSOVER REMOVAL NOTES:

1. EDGE OF SHOULDER SHALL BE SAW CUT BEFORE REMOVING TEMPORARY PAVEMENT. (SHALL BE INCLUDED IN THE COST OF TEMPORARY PAVEMENT REMOVAL)
2. TEMPORARY PIPE CULVERT SHALL BE REMOVED. (TO BE PAID FOR AS PIPE CULVERT REMOVAL)
3. EARTH SLOPES SHALL BE GRADED AND SEEDED AFTER TEMPORARY PAVEMENT IS REMOVED IN THE MEDIAN AREAS. (GRADING SHALL BE INCLUDED IN THE COST OF TEMPORARY PAVEMENT REMOVAL, SEEDING SHALL BE PAID FOR AS SEEDING, CLASS 2A)
4. TEMPORARY PAVEMENT IN THE EXISTING TURN LANE MEDIAN SHALL BE MILLED BACK TO EXISTING ELEVATION (TO BE PAID FOR AS TEMPORARY PAVEMENT REMOVAL)
5. TURN LANE MEDIAN SHALL BE MILLED AND OVERLAYED FOR SMOOTH TRANSITION TO MATCH EXISTING EB AND WB PAVEMENT (SEE DETAIL A).
6. WB SHOULDER STA. 181+25 TO 184+00 SHALL BE MILLED TO TRANSITION FROM SHOULDER TO REMAIN IN PLACE AND OVERLAYED TURN LANE MEDIAN. IT SHALL BE MILLED TO ALSO ACCOMODATE A 1 1/2" OVERLAY. (TO BE PAID FOR AS HMA SURF. REM. VAR. DEPTH AND HMA SHOULDER) (SEE DETAIL A)
7. TEMPORARY GUARDRAIL SHALL BE REMOVED AFTER EASTBOUND LANES ARE RE-OPENED. (TO BE PAID FOR AS GUARDRAIL REMOVAL)
8. AGGREGATE SHOULDER SHALL BE PLACED WHERE CROSSOVERS WERE REMOVED ADJACENT TO MAINLINE. (TO BE PAID FOR AS AGGREGATE SHOULDERS, TYPE B)
9. SHOULDER RUMBLE STRIPS SHALL BE REPLACED. (TO BE PAID FOR AS SHOULDER RUMBLE STRIPS)



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PLOT DATE = 3/18/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSSOVER TYPICAL & NOTES

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	22
CONTRACT NO. 68E48			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
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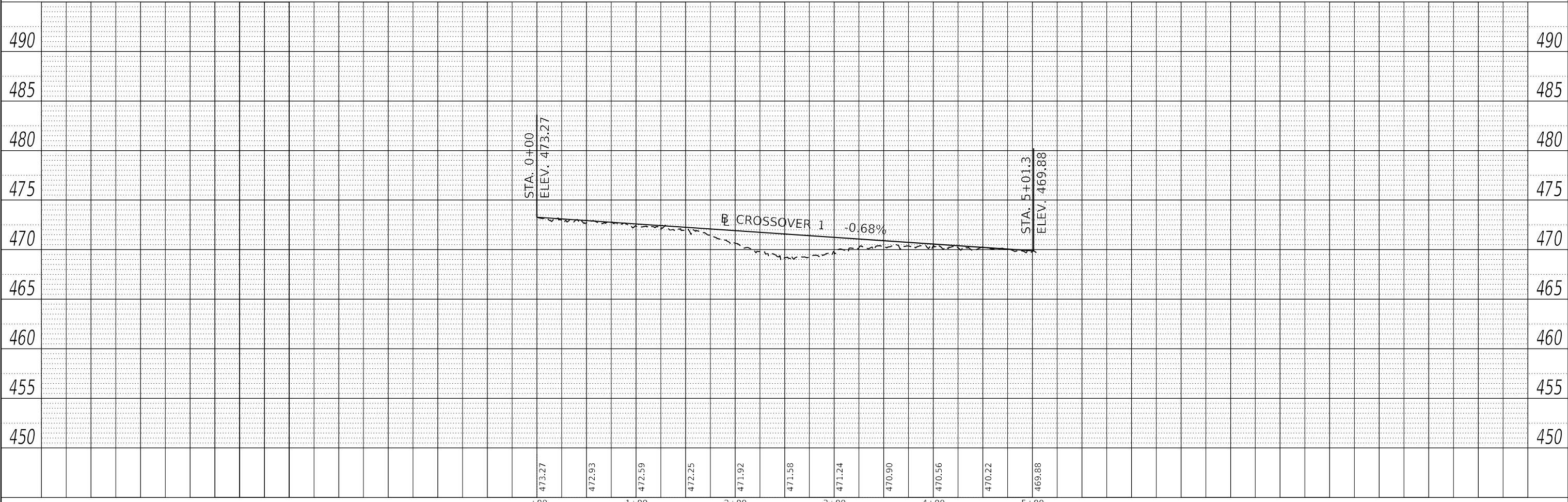
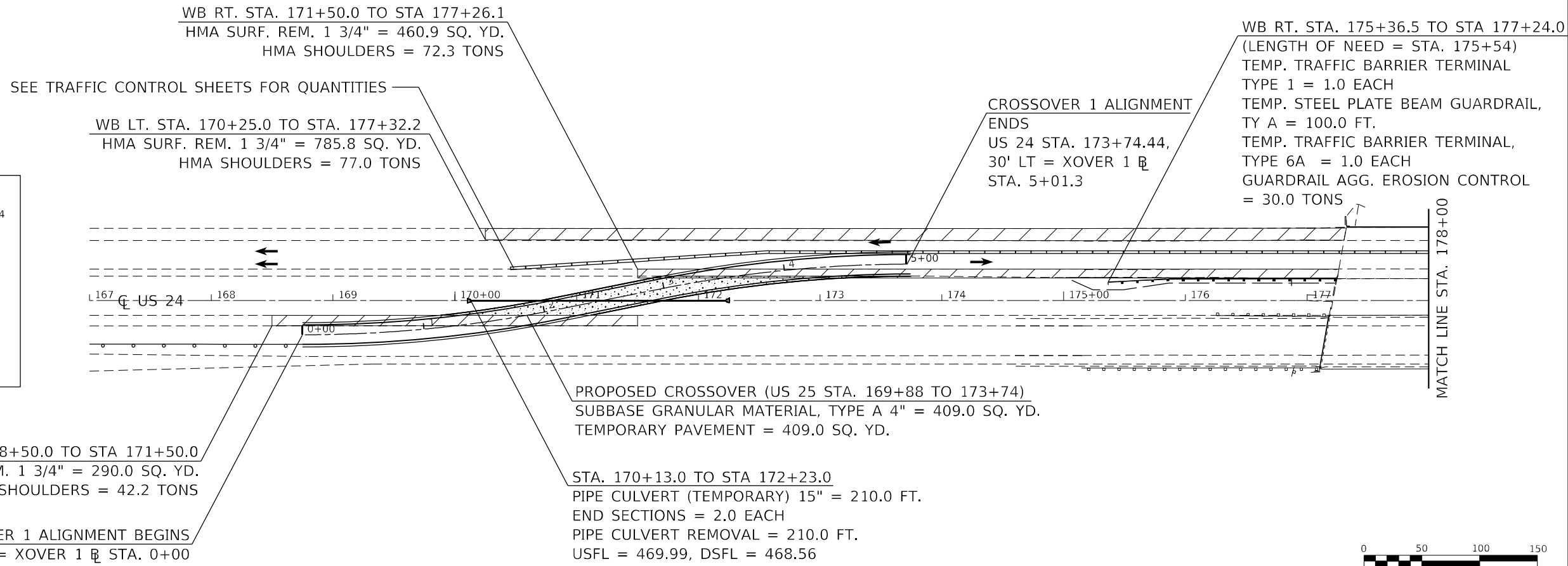
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LEGEND

	MILL AND OVERLAY
	HMA CROSSOVERS
	GRADING AND SHAPING DITCHES

CURVE INFORMATION

PROP. CURVE XOVER1_1	PROP. CURVE XOVER1_4
PI STA. = 1+04.83	PI STA. = 4+00.94
Δ = 11° 25' 26" (LT)	Δ = 11° 18' 36" (RT)
D = 5° 28' 02"	D = 5° 28' 02"
R = 1,048.00'	R = 1,048.00'
T = 104.83'	T = 103.77'
L = 208.96'	L = 206.87'
E = 5.23'	E = 5.13'
e =	e =
T.R. =	T.R. =
S.E. RUN =	S.E. RUN =
P.C. STA. = 0+00.00	P.C. STA. = 2+97.17
P.T. STA. = 2+08.96	P.T. STA. = 5+04.04



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	DRAWN -	REVISED -
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PLOT DATE = 3/18/2021	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**CROSSOVER 1
 PLAN & PROFILE**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 317	SECTION 45(RB)BR	COUNTY PEORIA	TOTAL SHEETS 86	SHEET NO. 23
CONTRACT NO. 68E48				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	GRADE CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	
	BY	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
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	BY	

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MATCH LINE STA. 178+00

WB LT. STA. 178+52.1 TO STA 197+75.0
HMA SURF. REM. 1 3/4" = 2136.6 SQ. YD.
HMA SHOULDERS = 209.4 TONS

WB RT. STA. 178+46.7 TO STA 181+53.9
HMA SURF. REM. 1 3/4" = 249.2 SQ. YD.
HMA SHOULDERS = 24.4 TONS

WB RT. STA. 181+53.9 TO STA 184+00.0
HMA SURF. REM. 1 3/4" = 199.6 SQ. YD.
HMA SHOULDERS = 36.9 TONS

TURN MEDIAN
HMA SURF. REM. 1 3/4" = 112.7 SQ. YD.
TEMPORARY PAVEMENT = 112.7 SQ. YD.

STA. 185+50.0 TO STA 188+50.0
GRADING AND SHAPING DITCHES = 300.0 FT.

CROSSOVER 2 ALIGNMENT BEGINS
US 24 STA. 181+53.9, 30' LT = XOVER 2 @ STA. 0+00

CROSSOVER 2 ALIGNMENT ENDS
US 24 STA. 187+08.9, 25.4' RT
= XOVER 2 @ STA. 5+59.0

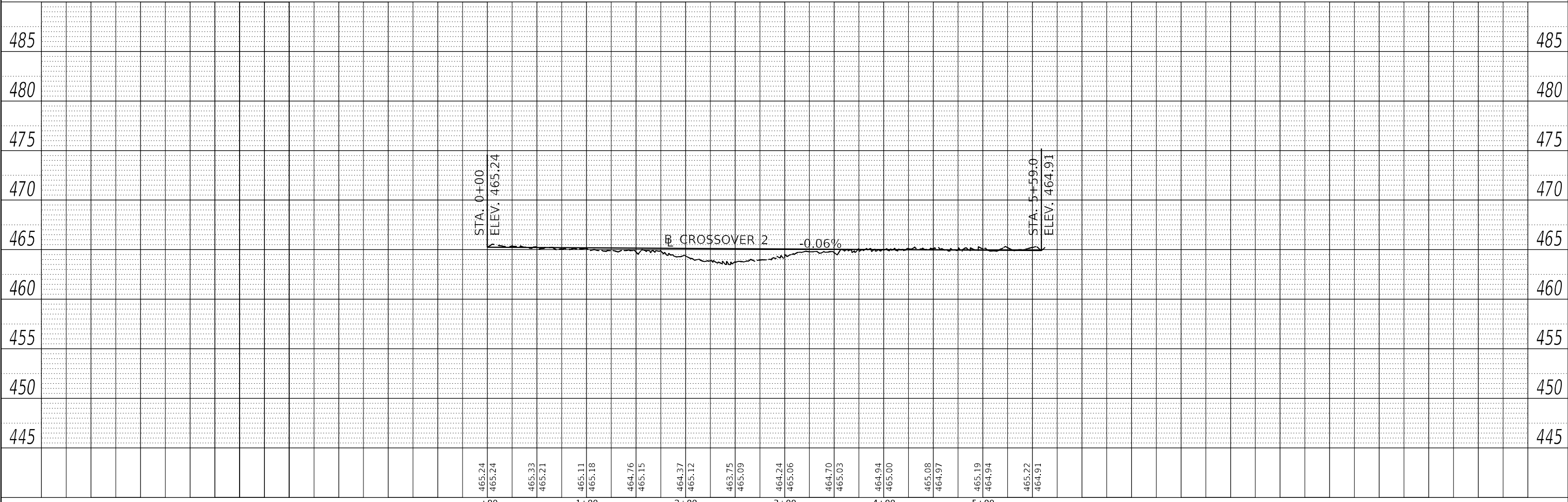
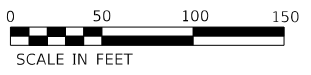
PROPOSED CROSSOVER
US 24 STA. 181+54 TO 182+75
SUBBASE GRANULAR MATERIAL, TYPE A 4" = 30.0 SQ. YD.
TEMPORARY PAVEMENT = 30.0 SQ. YD.

EB LT. STA. 184+00.0 TO STA 187+00.0
HMA SURF. REM. 1 3/4" = 250.0 SQ. YD.
HMA SHOULDERS = 46.2 TONS

PROPOSED CROSSOVER
US 24 STA. 183+40 TO 185+63
SUBBASE GRANULAR MATERIAL, TYPE A 4" = 299.0 SQ. YD.
TEMPORARY PAVEMENT = 299.0 SQ. YD.

LEGEND	
	MILL AND OVERLAY
	HMA CROSSOVERS
	GRADING AND SHAPING DITCHES

CURVE INFORMATION	
PROP. CURVE XOVER2_1	PROP. CURVE XOVER2_4
PI STA. = 0+98.92	PI STA. = 3+95.14
Δ = 10° 47' 03" (RT)	Δ = 10° 50' 33" (LT)
D = 5° 28' 02"	D = 5° 28' 02"
R = 1,048.00'	R = 1,048.00'
T = 98.92'	T = 99.46'
L = 197.26'	L = 198.32'
E = 4.66'	E = 4.71'
e =	e =
T.R. =	T.R. =
S.E. RUN =	S.E. RUN =
P.C. STA. = 0+00.00	P.C. STA. = 2+95.68
P.T. STA. = 1+97.26	P.T. STA. = 4+94.00



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	DRAWN -	REVISED -
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PLOT DATE = 3/18/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

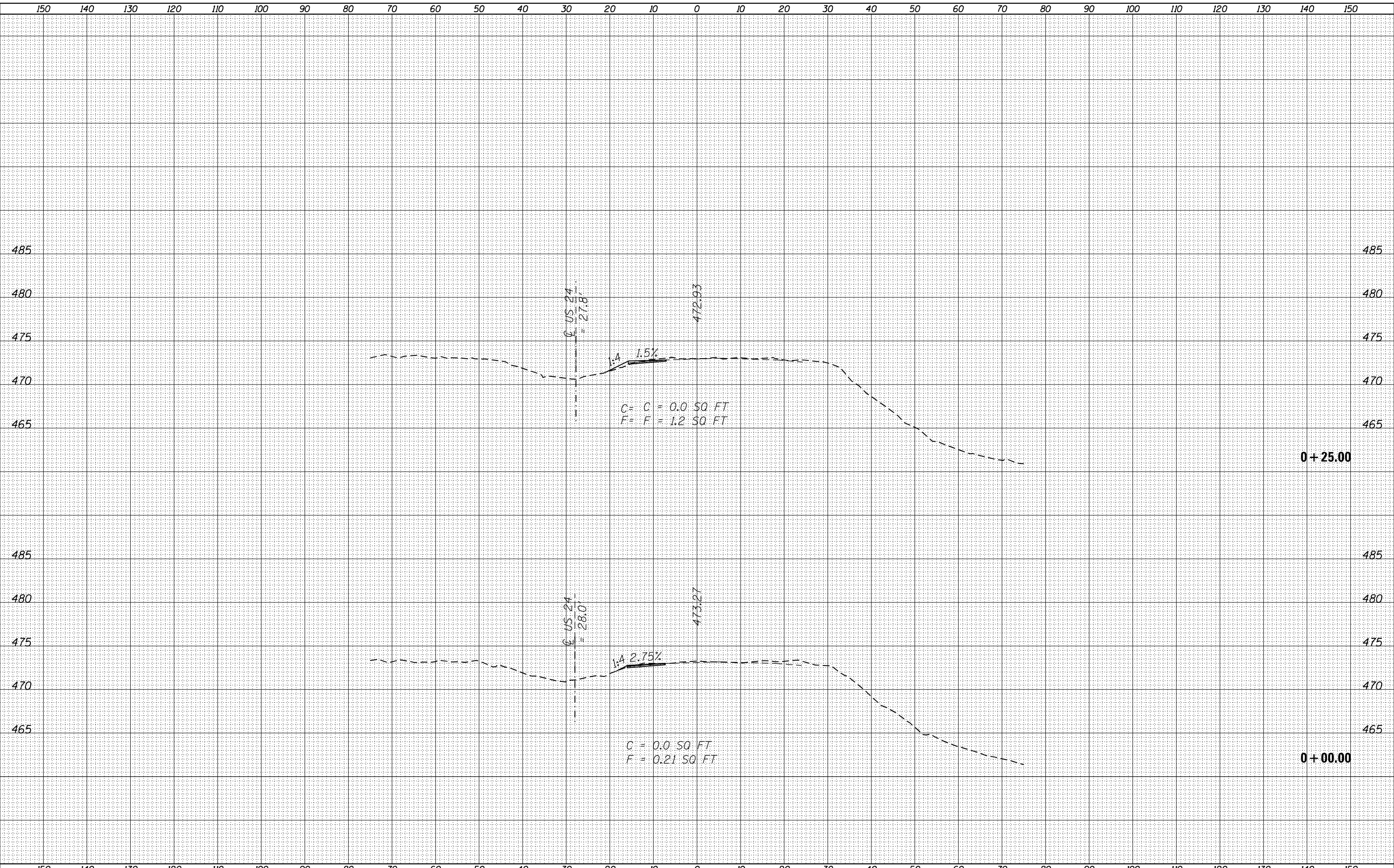
CROSSOVER 2 PLAN & PROFILE			
SCALE:	SHEET 3	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE. 317	SECTION 45(RB)BR	COUNTY PEORIA	TOTAL SHEETS 86	SHEET NO. 24
CONTRACT NO. 68E48				
ILLINOIS FED. AID PROJECT				

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

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

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	DRAWN -	REVISED -
PLOT SCALE = 1:20	CHECKED -	REVISED -
PLOT DATE = 3/18/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSSOVER 1
CROSS-SECTIONS**

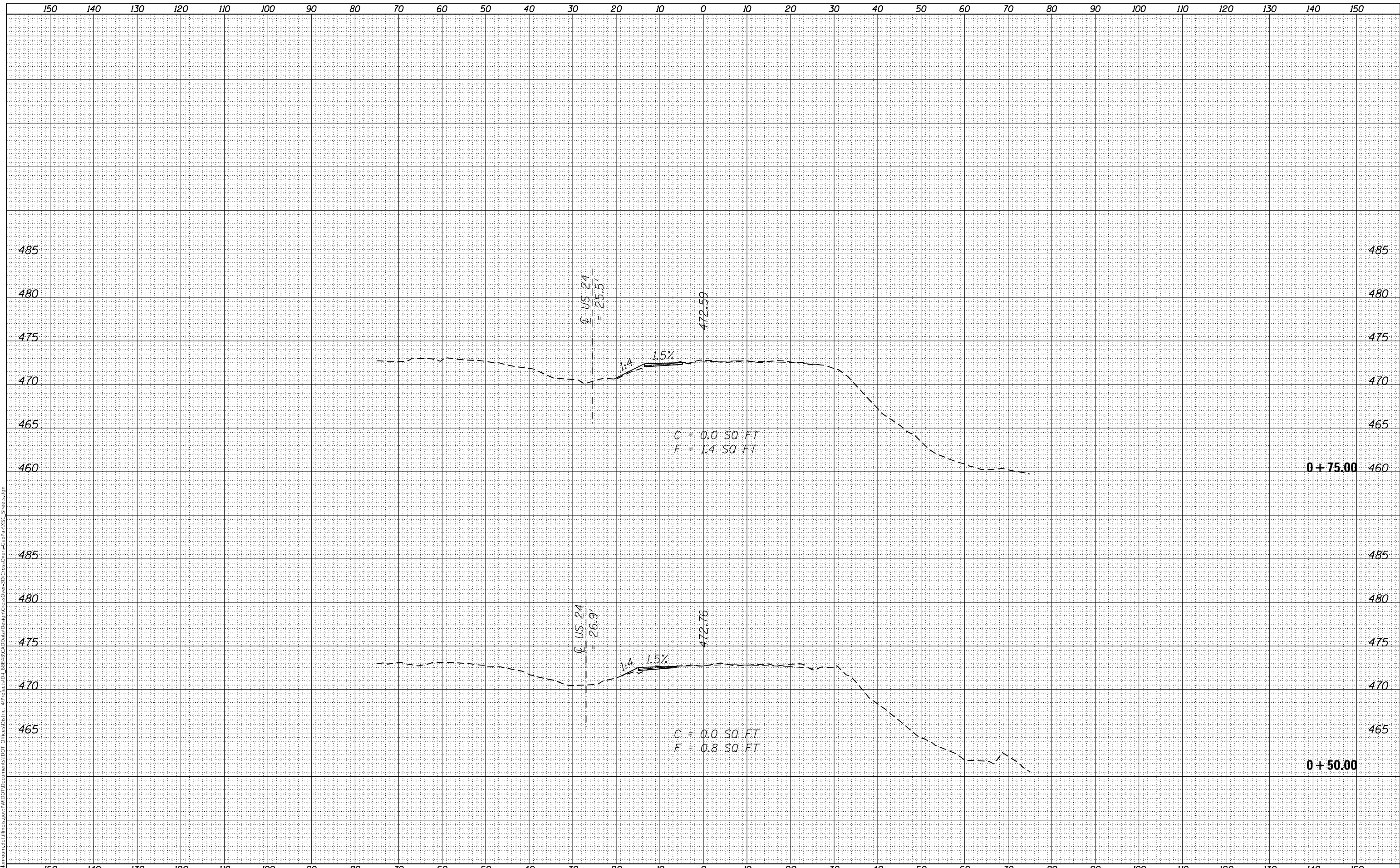
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	25
CONTRACT NO. 68E48				
ILLINOIS FED. AID PROJECT				

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

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

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSSOVER 1
CROSS-SECTIONS**

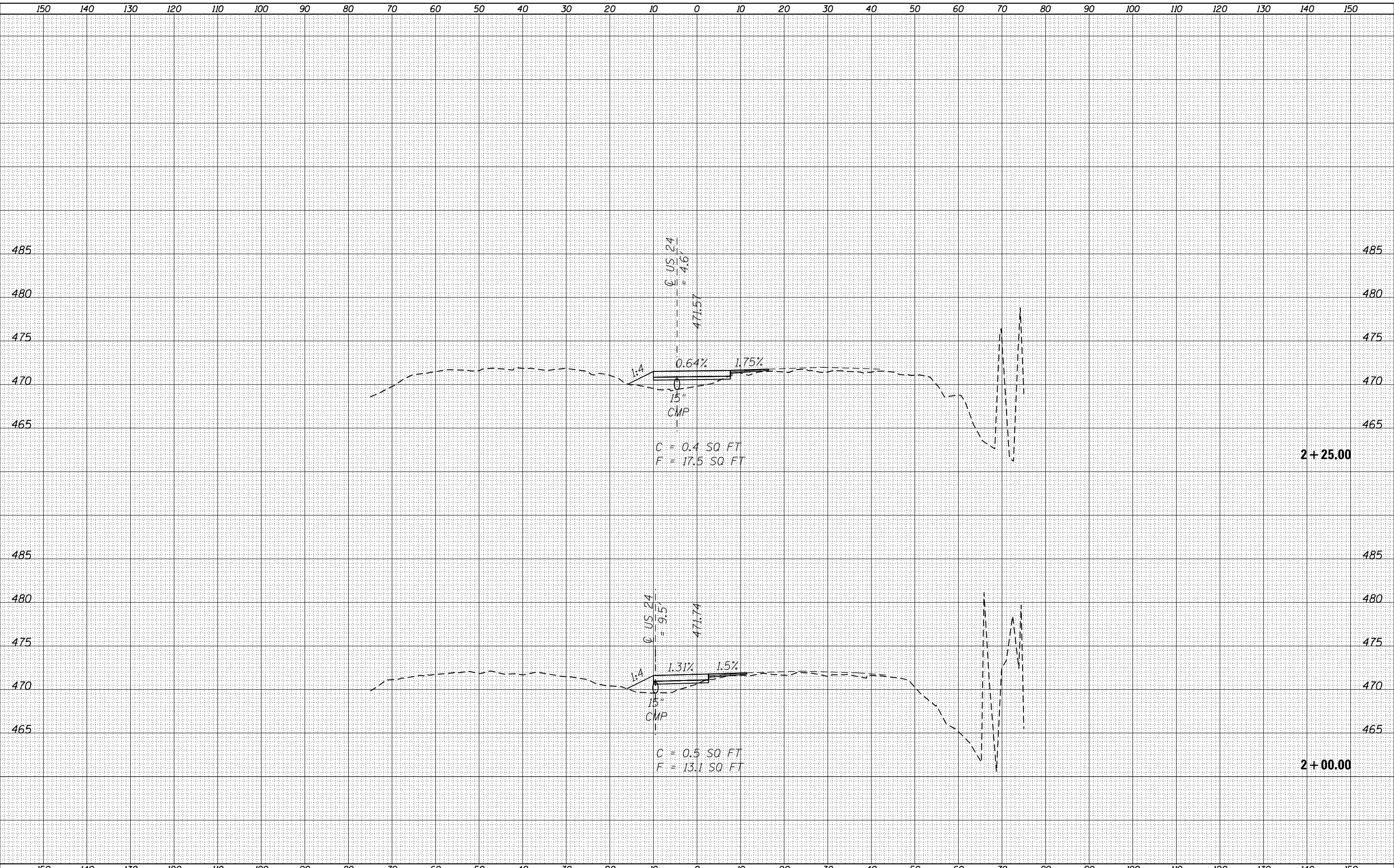
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	26
			CONTRACT NO. 68E48	
ILLINOIS FED. AID PROJECT				

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

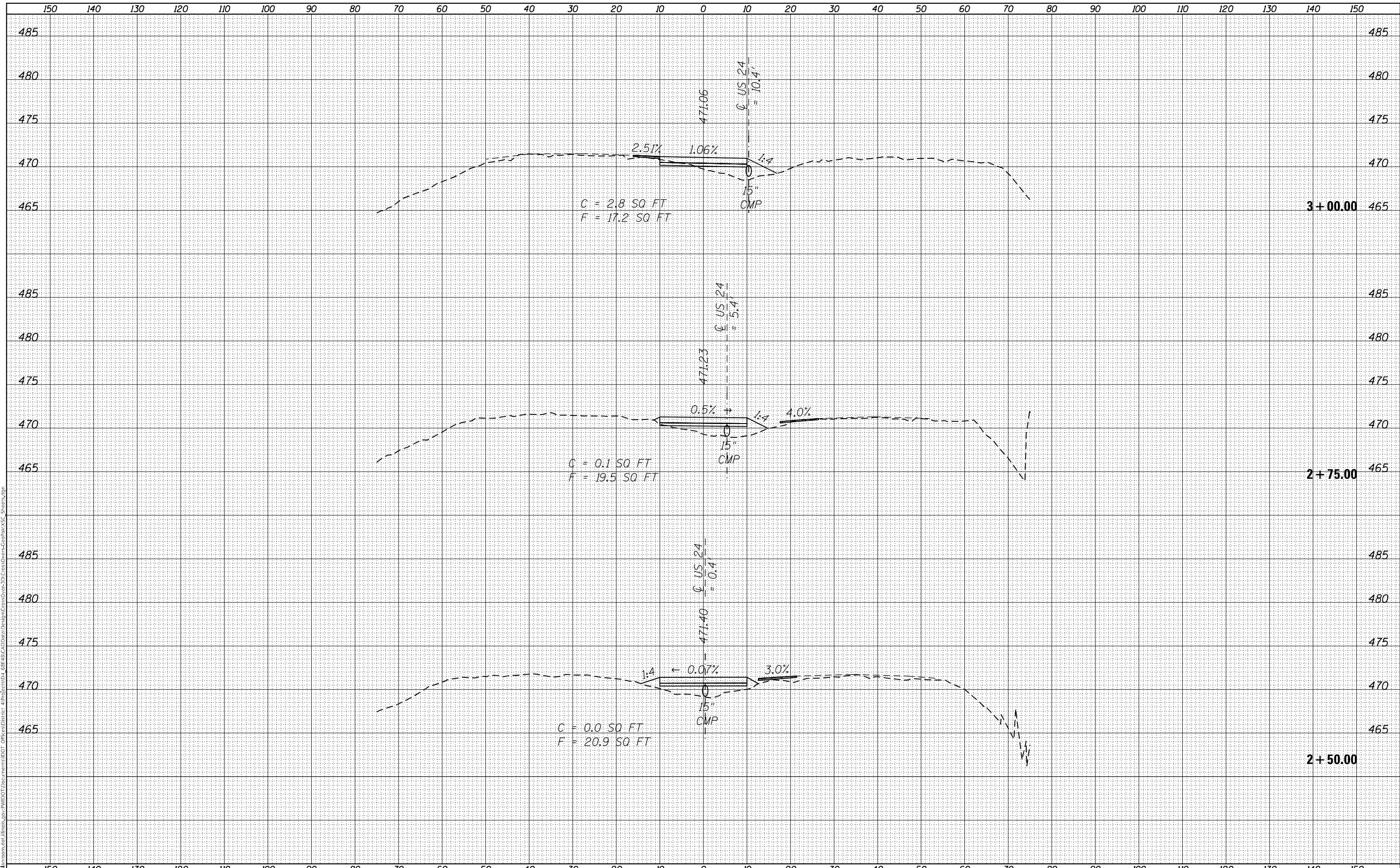
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NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS	

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PLOT SCALE = 1:20	DRAWN -	REVISED -				CONTRACT NO. 68E48				
PLOT DATE = 3/18/2021	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT				
	DATE -	REVISED -				SCALE: SHEET 5 OF 16 SHEETS STA. 2+00.00 TO STA. 2+25.00				

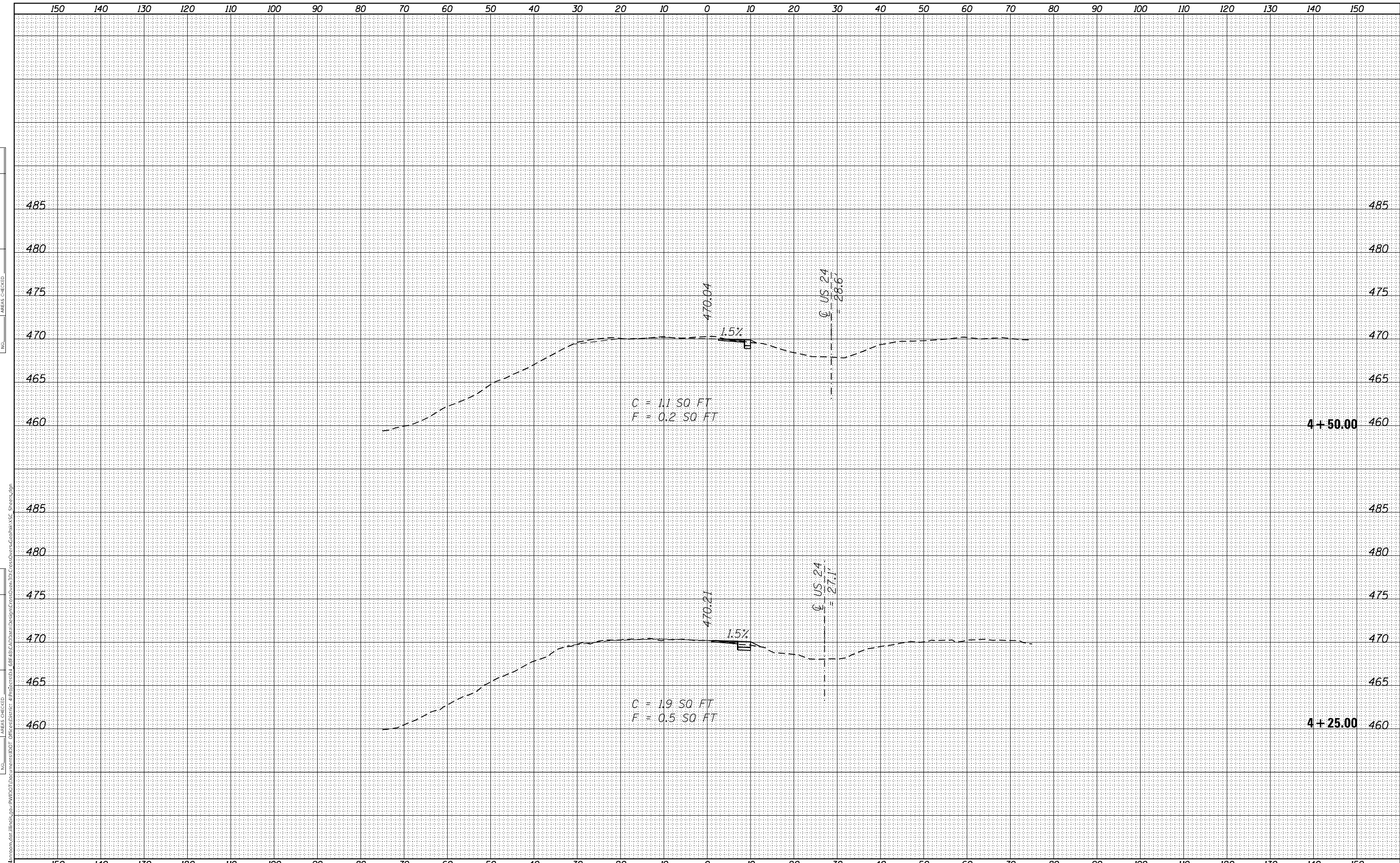
BY		DATE	
FINAL SURVEY	SURVEYED	PLOTTED	DATE
NOTE BOOK	TEMPLATE	AREAS	CHECKED
NO.			



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

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PLOT DATE = 3/18/2021	CHECKED -	REVISER -	SCALE:				SHEET 6	OF 16	SHEETS	STA. 2+50.00	TO STA. 3+00.00	
DATE -	REVISER -	REVISER -	SECTION				F.A.P. RTE. 317		COUNTY		TOTAL SHEETS	
				45(RB)BR		PEORIA		86		30		
				CONTRACT NO. 68E48		ILLINOIS		FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE

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PLOT DATE = 3/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSSOVER 1
 CROSS-SECTIONS**

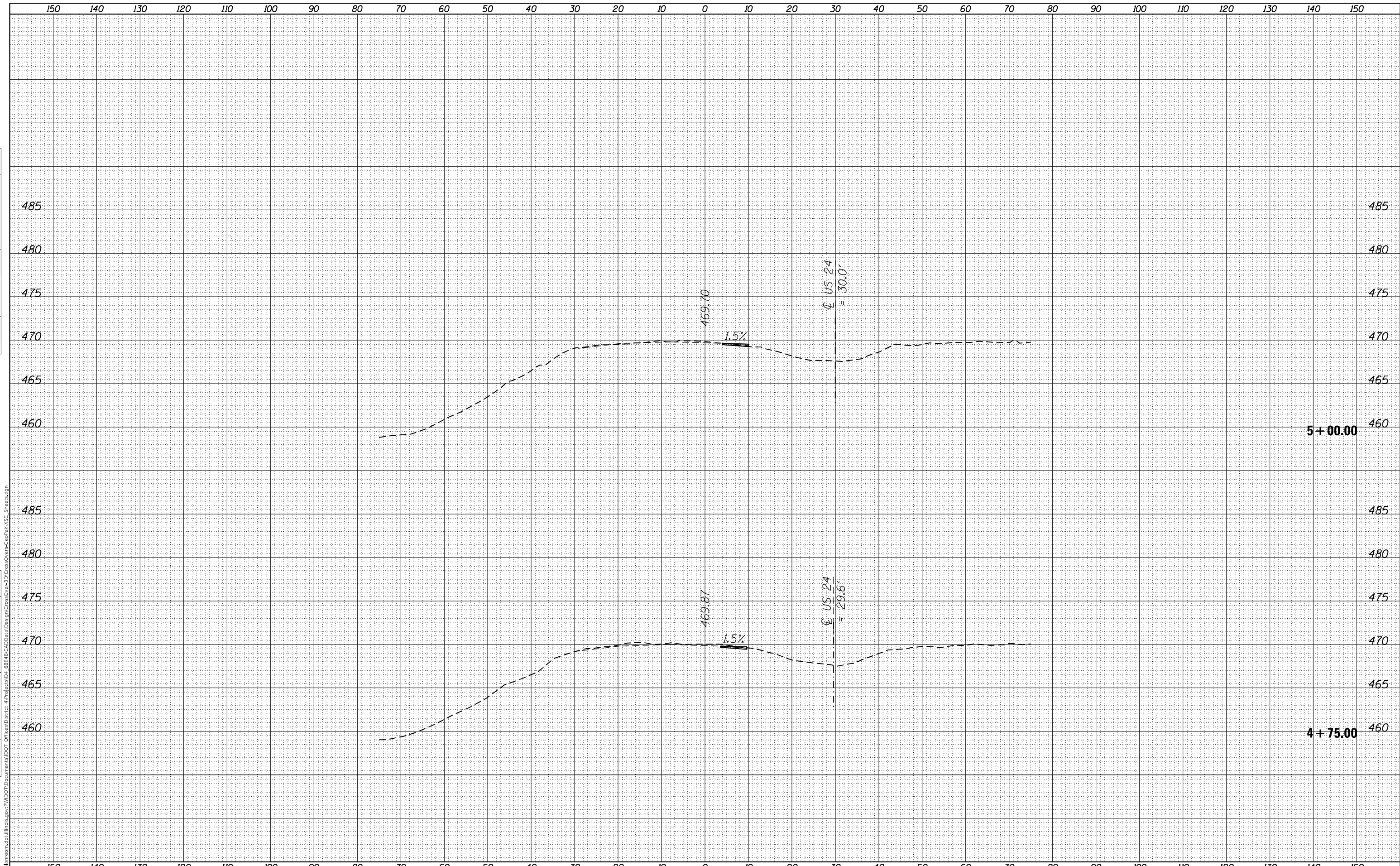
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	33
CONTRACT NO. 68E48				
ILLINOIS FED. AID PROJECT				

BY	DATE

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE

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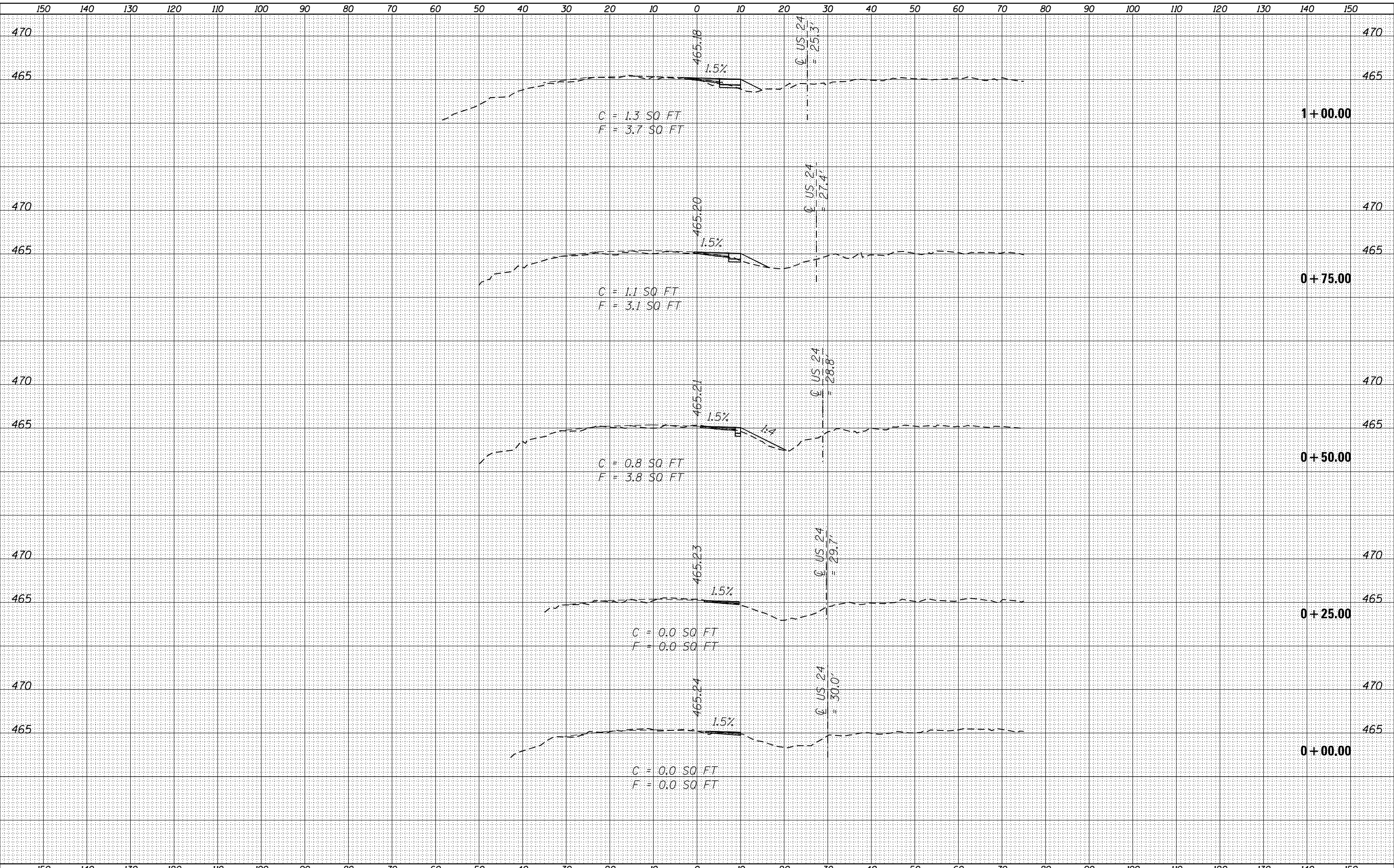


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PLOT SCALE = 1:20	DRAWN -	REVISD -					SCALE: SHEET 10 OF 16 SHEETS				STA. 4+75.00		TO STA. 5+00.00		CONTRACT NO. 68E48			
PLOT DATE = 3/18/2021	CHECKED -	REVISD -					ILLINOIS FED. AID PROJECT											
	DATE -	REVISD -																

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

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

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PLOT DATE = 3/18/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSSOVER 2
CROSS-SECTIONS**

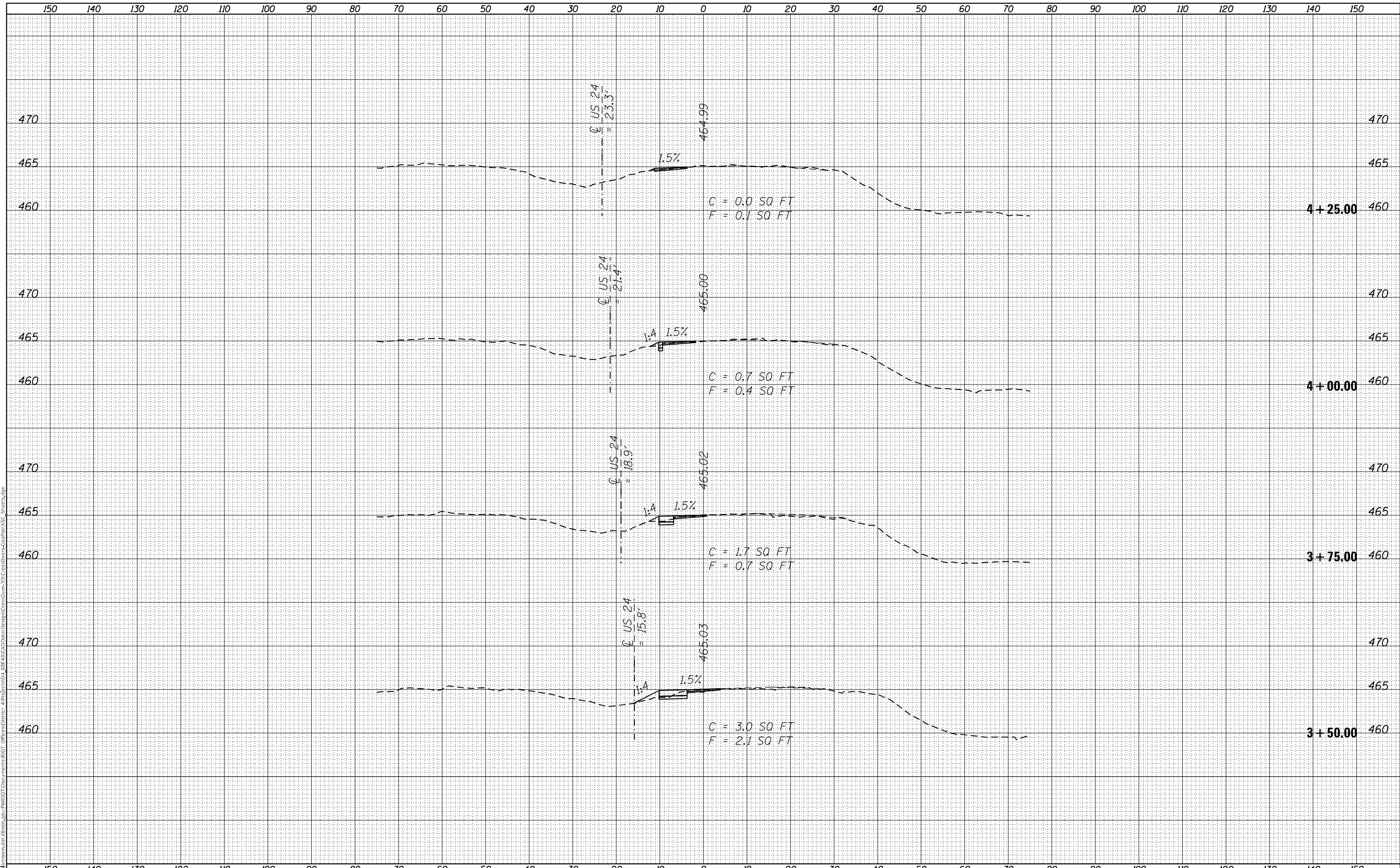
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	35
CONTRACT NO. 68E48				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE

ORIGINAL SURVEY NO.	SURVEYED	DATE

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PLOT DATE = 3/18/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

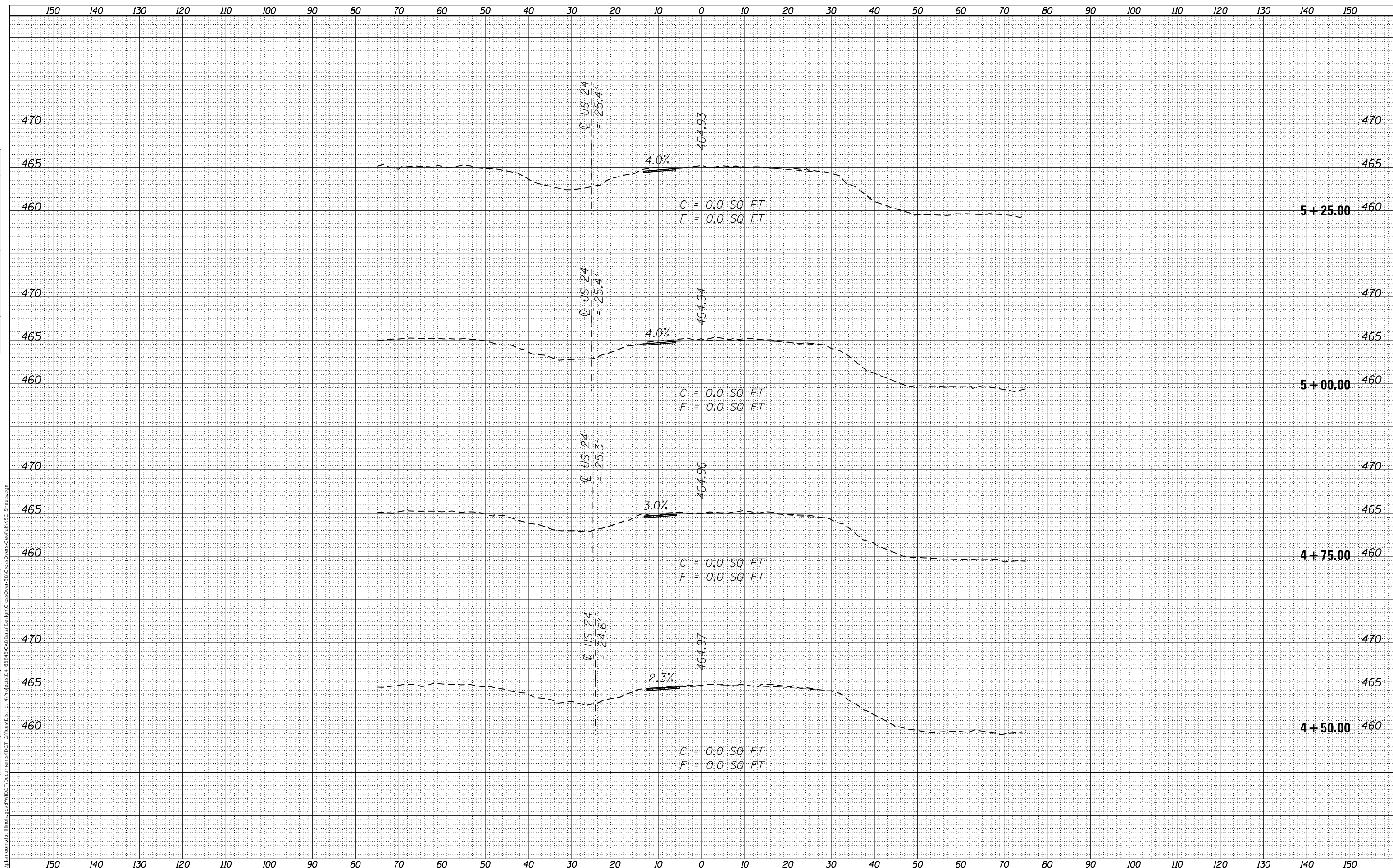
**CROSSOVER 2
CROSS-SECTIONS**

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F.A.P. RTE. 317	SECTION 45(RB)BR	COUNTY PEORIA	TOTAL SHEETS 86	SHEET NO. 38
CONTRACT NO. 68E48			ILLINOIS FED. AID PROJECT	

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

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



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SCALE:				SHEET 15 OF 16 SHEETS				STA. 4+50.00 TO STA. 5+25.00												ILLINOIS		FED. AID PROJECT											

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LIGHTING LEGEND:

- E EXISTING ELECTRIC SERVICE TO REMAIN
- PROPOSED ELECTRIC SERVICE
- PROPOSED TEMPORARY LIGHTING CONTROLLER
- PROPOSED TEMPORARY LIGHTING UNIT, 50FT WOOD POLE, CLASS 3, WITH 15FT M.A., LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H
- GUY WIRE ANCHOR
- PROPOSED AERIAL CABLE, SIZED AS NOTED
- PROPOSED DIRECT BURIED CABLE, SIZED AS NOTED
- PROPOSED COILABLE NONMETALLIC CONDUIT 2" DIA. LENGTH AS NOTED

BILL OF MATERIALS:

PAY ITEM	UNIT	TOTALS
X8410102	TEMPORARY LIGHTING SYSTEM	LSUM 1

GENERAL NOTES:

1. THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF ANY COMPONENTS.
2. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BIDDING. THERE WILL BE NO ADDITIONAL COMPENSATION PAID FOR CLAIMS THAT ARISE FROM A FAILURE TO FULLY INVESTIGATE EXISTING FIELD CONDITIONS.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADEQUATELY IDENTIFY AND LOCATE ALL EXISTING UNDERGROUND FACILITIES WITHIN THE LIMITS OF THE PROJECT. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.
4. ELECTRICAL WORK SHALL CONFORM WITH NATIONAL, STATE, AND LOCAL CODES.
5. THE CONTRACTOR SHALL PROVIDE ELECTRICAL CABLE SLACK IN ACCORDANCE WITH ARTICLE 817.04.
6. ELECTRICAL CABLE WILL BE MEASURED FOR PAYMENT IN ACCORDANCE WITH ARTICLE 817.04.
7. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
8. GUYS WIRE ANCHORS ARE SHOWN AS AN EXAMPLE AND SHALL BE INSTALLED AS NECESSARY TO THE ENGINEERS SATISFACTION.
9. WOOD POLES WILL BE FURNISHED BY IDOT. THE CONTRACTOR SHALL PICK UP THE WOOD POLES FROM THE IDOT MAINTENANCE FACILITY LOCATED AT 6505 W US ROUTE 150, EDWARDS AND TRANSPORT THEM TO THE JOB SITE. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE WOOD POLES AT THE CONCLUSION OF THE PROJECT.
10. THE CONTRACTOR SHALL FURNISH 15 FT. LUMINAIRES ARMS AND INSTALL THEM ON THE IDOT FURNISHED WOOD POLES.
11. AT THE CONCLUSION OF THE PROJECT, THE CONTRACTOR SHALL REMOVE THE TEMPORARY LIGHTING SYSTEM IN ITS ENTIRETY WITH THE EXCEPTION OF THE UNDERGROUND WIRING. THE LIGHTING CONTROLLER, LUMINAIRE ARMS, AND LUMINAIRES WILL BECOME THE PROPERTY OF THE DEPARTMENT. THE CONTRACTOR SHALL DELIVER THE LIGHTING CONTROLLER AND LUMINAIRES TO THE IDOT TRAFFIC BUILDING LOCATED AT 1025 WEST DETWEILLER DR., PEORIA. THE CONTRACTOR SHALL DELIVER THE LUMINAIRE ARMS TO THE IDOT MAINTENANCE FACILITY LOCATED AT 6505 WEST US ROUTE 150, EDWARDS. THE CONTRACTOR SHALL NOTIFY TONY BRIDSON (309) 671-4464 A MINIMUM OF FORTY EIGHT HOURS PRIOR TO MATERIAL DELIVERY.

CABLE/CONDUIT SCHEDULE:

- AERIAL CABLE 2-1C NO. 6 WITH MESSENGER WIRE.
- "#" IS EQUIVALENT TO THE NUMBER OF SETS.

HIGHWAY STANDARDS

- ** 825001-04 LIGHTING CONTROLLER POLE MOUNTED, 240V
- 830026-01 TEMPORARY ROADWAY LIGHTING

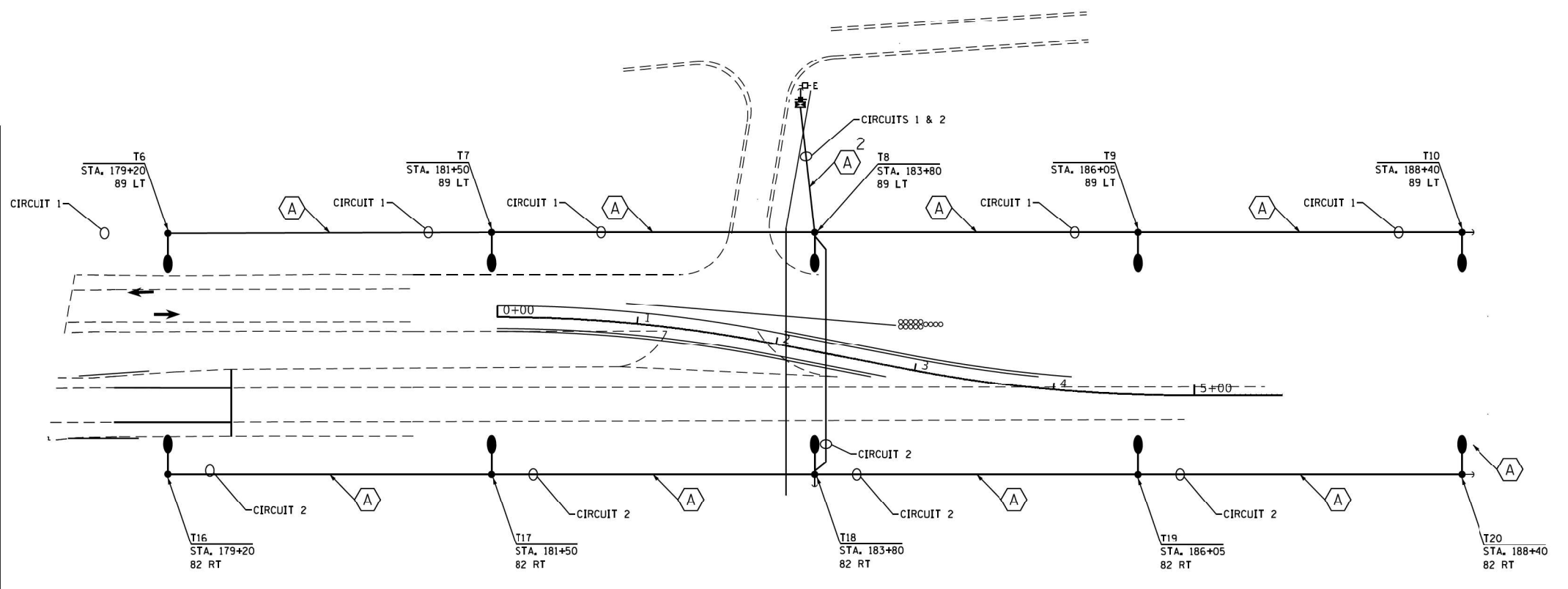
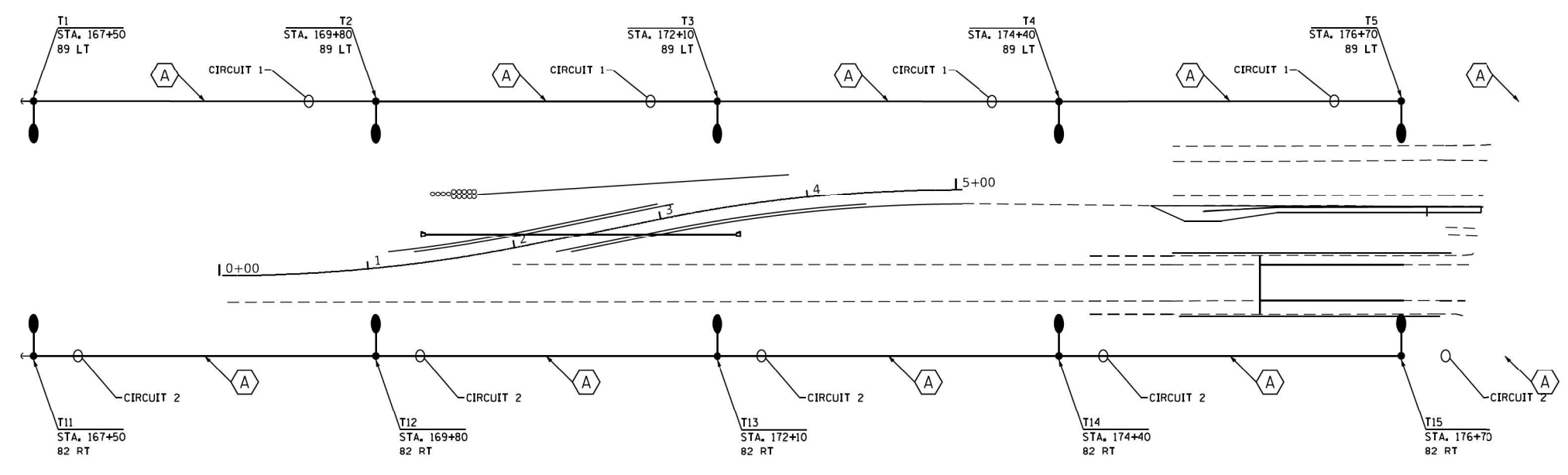
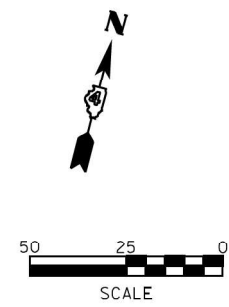
- ** 60 AMP - TO BE USED FOR TEMPORARY LIGHTING CONTROLLER.

INDEX OF SHEETS

- L-1 CABLE/CONDUIT SCHEDULE, GENERAL NOTES, HIGHWAY STANDARDS, INDEX OF SHEETS, LIGHTING LEGEND, AND BILL OF MATERIALS.
- L-2 PROPOSED TEMPORARY LIGHT PLAN
- L-3 WIRING DIAGRAM AND LUMINAIRE PERFORMANCE TABLE.

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SCALE:		SHEET 1 OF 3 SHEETS		STA.		TO STA.								



L-2

MODEL: Default
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USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:100	DRAWN -	REVISED -
PLOT DATE = 3/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TEMPORARY LIGHT PLAN			
SCALE:	SHEET 2	OF 3	SHEETS
STA.	TO STA.		

F.A.P. RTE. 317	SECTION 45(RB)BR	COUNTY PEORIA	TOTAL SHEETS 86	SHEET NO. 42
CONTRACT NO. 68E48				
ILLINOIS FED. AID PROJECT				



Luminaire Performance Table



Project

Date	Contract Number	Section Number	County
11/09/20	68E48	45(RB;VHB-1)BR	Peoria

Marked Route Number	Municipality
U.S. 24	

Roadway

Lane Width	# of Lanes	Median Width	I.E.S. Surface Classification	Q-Zero Value
12	1	N/A	R3	0.07

Structure

Mounting Height	Arm Length	Set-Back	Number of Luminaires (Highmast & Sign Lighting Only)
40FT	15FT	30FT	N/A

Luminaire

Description	I.E.S. Lateral Distribution	I.E.S. Vertical Distribution	
Roadway, Output Designation G	Type III	Medium	
Total Light Loss Factor (LLF)	B-U-G Rating	Shields	Dimming Protocol
0.684	3-0-3	N/A	10V

Layout

Spacing (to Nearest 5 ft)	Configuration (Opposite, Staggered, 1 Sided, or Median)
230FT	1 Sided

Performance

Average Illuminance, E_{AVE} (fc)	Uniformity Ratio, E_{AVE}/E_{MIN}		
N/A	N/A		
Average Luminance, L_{AVE} (cd/m ²)	Uniformity Ratio, L_{AVE}/L_{MIN}	Uniformity Ratio, L_{MAX}/L_{MIN}	Veiling Luminance Ratio, L_v/L_{AVE}
0.4	3.5	6.0	0.3

Light Tresspass

Distance to ROW (behind pole)	Max. Horizontal Illuminance at ROW, E_H	Max. Vertical Illuminance at ROW, E_V
N/A	N/A	N/A

Notes

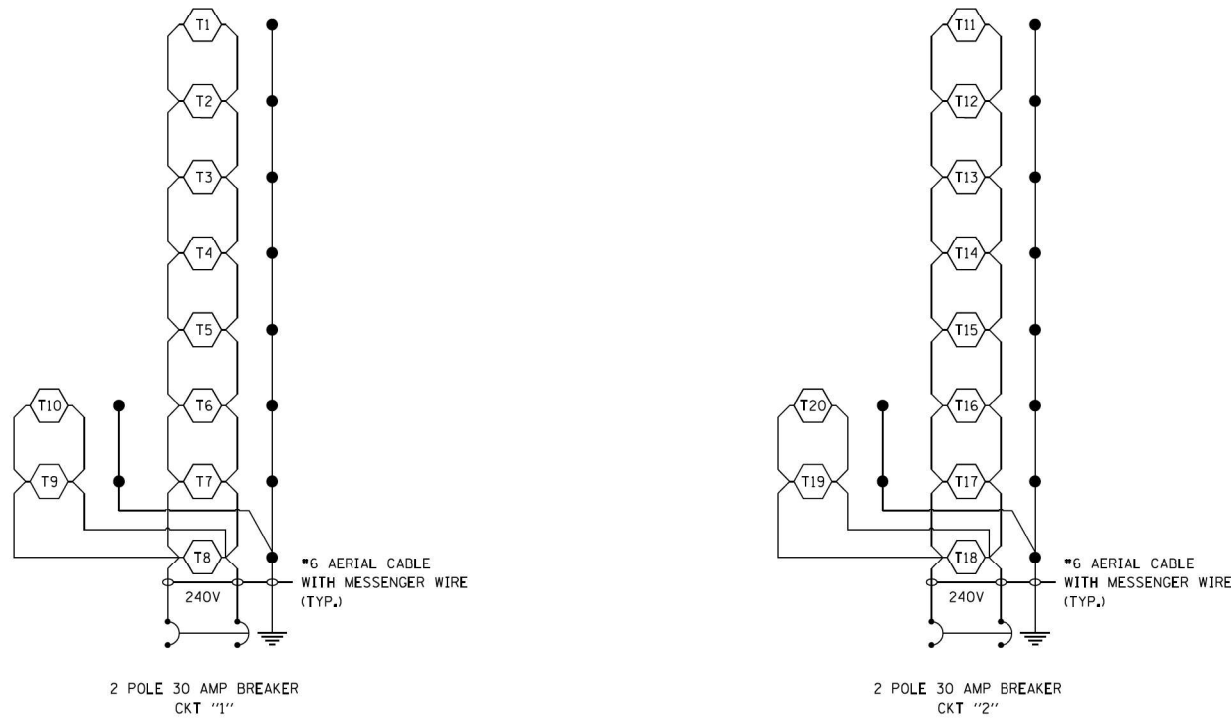
- Set-Back is from Edge of Pavement (white line) except for sign luminaires when it is vertical and horizontal distance from the sign to the luminaire.
- Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway.
- Total Light Loss Factor (LLF) = the product of "Lumen Maintenance" (LLD) = 0.9, "Dirt Depreciation" (LDD) = 0.8, and "Equipment Factors" (EF) = 0.95.
- Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

Photometric calculations to be performed in one direction only.

Printed 11/09/20

BDE 5630 (04/10/19)

LUMINAIRE PERFORMANCE TABLE



IL-9 CROSSOVER
TEMPORARY LIGHTING CONTROLLER - 120/240V, 30AMP
CARGILL RD.

LEGEND

- (T1) TEMPORARY LIGHTING UNIT.
- GROUND ROD.

NOTES:

- ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

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PLOT DATE = 3/18/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIRING DIAGRAM AND LUMINAIRE PERFORMANCE TABLE

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	43
CONTRACT NO. 68E48				
ILLINOIS FED. AID PROJECT				

Bench Mark: Chiseled square on SE concrete bridge abutment of SN 072-0008; Sta. 178+39, 62' Rt., Elev. 466.829.

Existing Structure: Existing structure S.N. 072-0008 built in 1955 as part of SBI 9, Section 45-RB at Station 496+98.89. It is a three span concrete arch t-beam bridge 125'-0" back-to-back abutments. The span lengths are 36'-6", 47'-6", and 36'-6" with a 10° left forward skew. In 1975 the bridge was widened with the addition of three 36" wide deck beams. The substructure consists of reinforced pile bent abutments and solid reinforced concrete piers. The existing superstructure is to be removed and replaced with PPC deck beams and a concrete wearing surface. Traffic will be maintained with a cross over in ditched median.

No Salvage.

SCOPE OF WORK

1. Remove existing superstructure and backwalls.
2. Repair substructure and raise bearing seats.
3. Place stone riprap in channel.
4. Install new PPC Deck Beams.
5. Construct new concrete backwalls.
6. Place Concrete Wearing Surface 5" Min.
7. Install exp. joint & side retainers at abutments.
8. Install Steel Bridge railing.



PROFILE GRADE
(along C E.B. lanes)

DESIGN SPECIFICATIONS

2020 AASHTO Bridge Design Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS (NEW CONSTRUCTION)

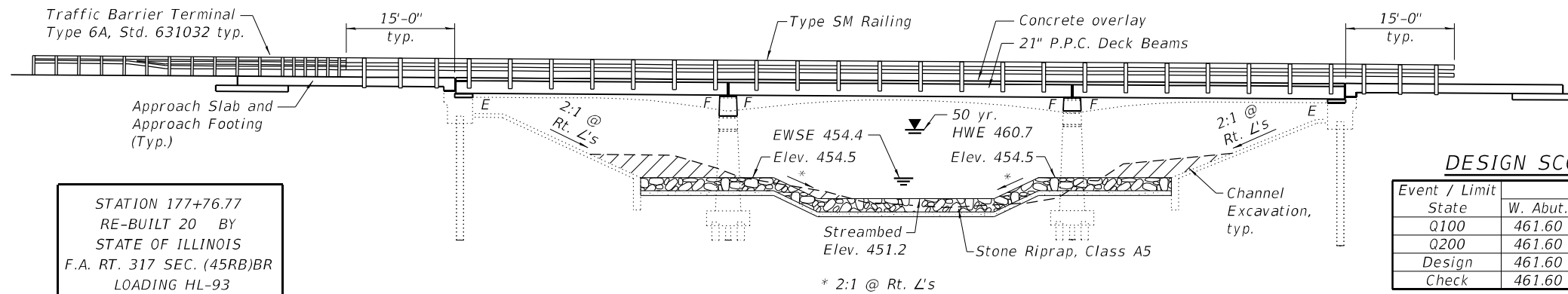
f'c = 3,500 psi
f'c = 5,000 psi (Concrete Wearing Surface & Approach Slab)
fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
f'ci = 5,000 psi
f's = 270,000 psi (1/2" O low lax. strands)
fsi = 201,960 psi (1/2" O low lax. strands)
fy = 60,000 psi (Reinforcement)

HIGHWAY CLASSIFICATION

F.A.P. Rte. 317 - U.S. Rte. 24
Functional Class: Other Arterial
ADT: 5500 (2019); 6700 (2039)
ADTT: 540 (2019); 660 (2039)
DHV: 605
Design Speed: 60 m.p.h.
Posted Speed: 55 m.p.h.
1 -Way Traffic
Directional Distribution: 100:0



DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Scour Elevations (ft.)				Item 113
	W. Abut.	Pier 2	Pier 1	E. Abut.	
Q100	461.60	442.76	442.76	460.81	5
Q200	461.60	441.46	441.46	460.81	
Design	461.60	442.76	442.76	460.81	
Check	461.60	441.46	441.46	460.81	

STATION 177+76.77
RE-BUILT 20 BY
STATE OF ILLINOIS
F.A. RT. 317 SEC. (45RB)BR
LOADING HL-93
STRUCTURE NO. 072-0008

NAME PLATE

See Std. 515001

Attach new name plate to the backside of 8' rail element. Existing Name Plate shall be removed, cleaned and relocated adjacent to new Name Plate. Cost included with Name Plates.

LOADING HL-93

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

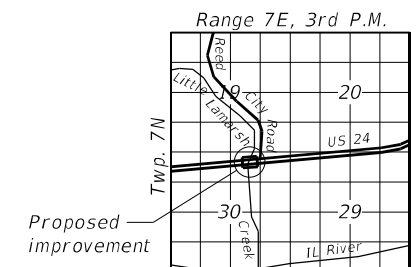
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.085g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.114g
Soil Site Class = C

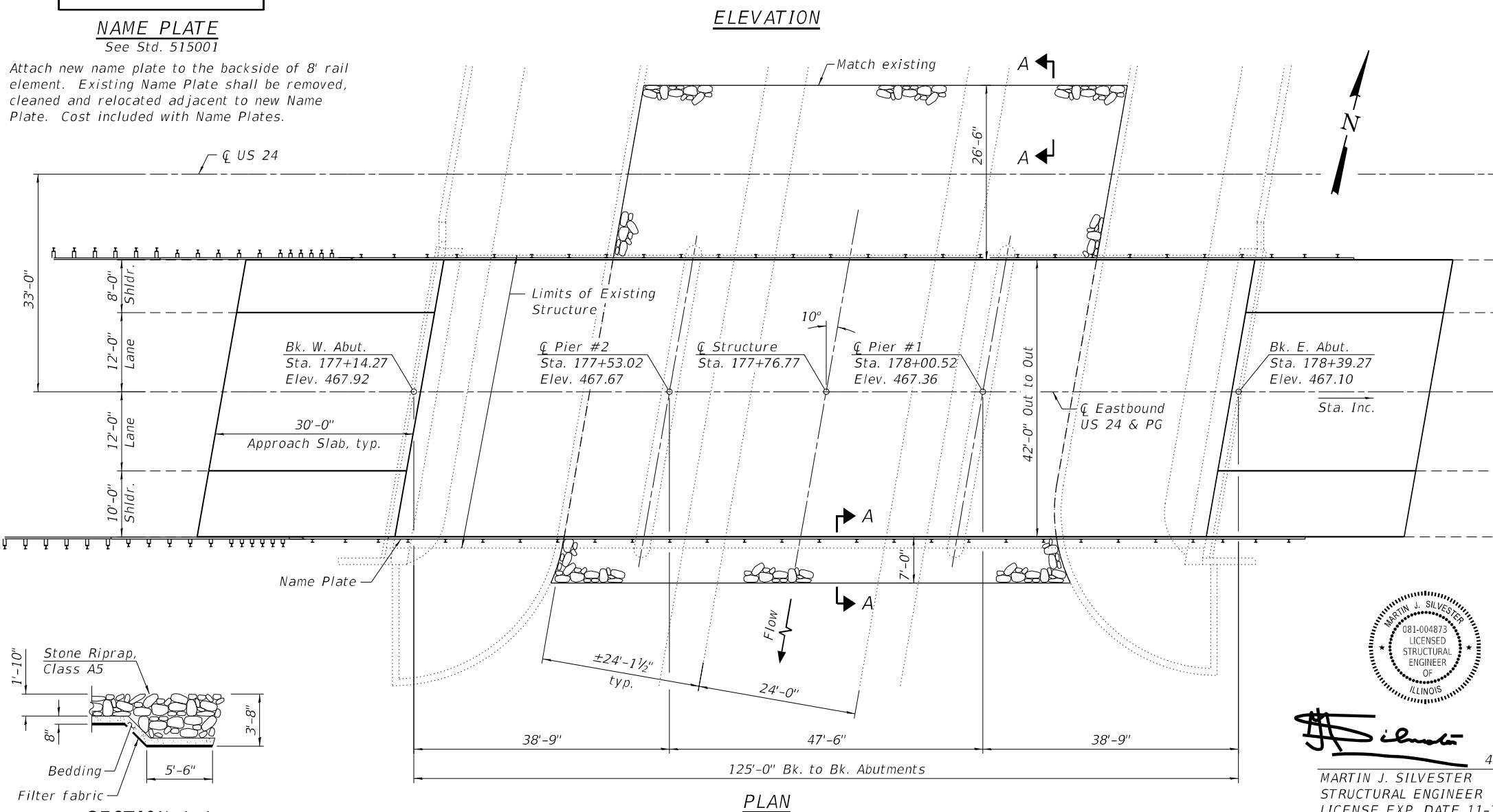
WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.		
Design	10	1920	415	415	459.1	2.4	2.4	461.5	461.5	
Base	50	3090	562	562	460.7	2.3	2.3	463.0	463.0	
Scour Check	100	3640	619	619	461.3	2.1	2.1	463.4	463.4	
Max. Calc.	200	4194	689	689	462.0	2.1	2.1	464.1	464.1	
	500	4970	774	774	462.7	1.5	1.5	464.2	464.2	

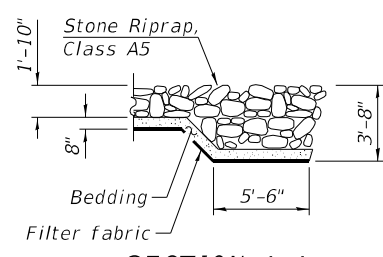
10 year velocity through existing bridge = 4.6 fps
10 year velocity through proposed bridge = 4.6 fps
Note: New Sta. 177+76.77 = Old Sta. 496+98.89



LOCATION SKETCH



PLAN



SECTION A-A

APPROVED
For Structural Adequacy Only
[Signature]
Engineer of Bridges & Structures



[Signature]
MARTIN J. SILVESTER
STRUCTURAL ENGINEER
LICENSE EXP. DATE 11-30-2022

GENERAL PLAN & ELEVATION
EB US RTE. 24 OVER LITTLE LAMARSH CREEK
F.A.P. RTE. 317 - SEC. (45RB)BR
PEORIA COUNTY
STA. 177+76.77
STRUCTURE NO. 072-0008

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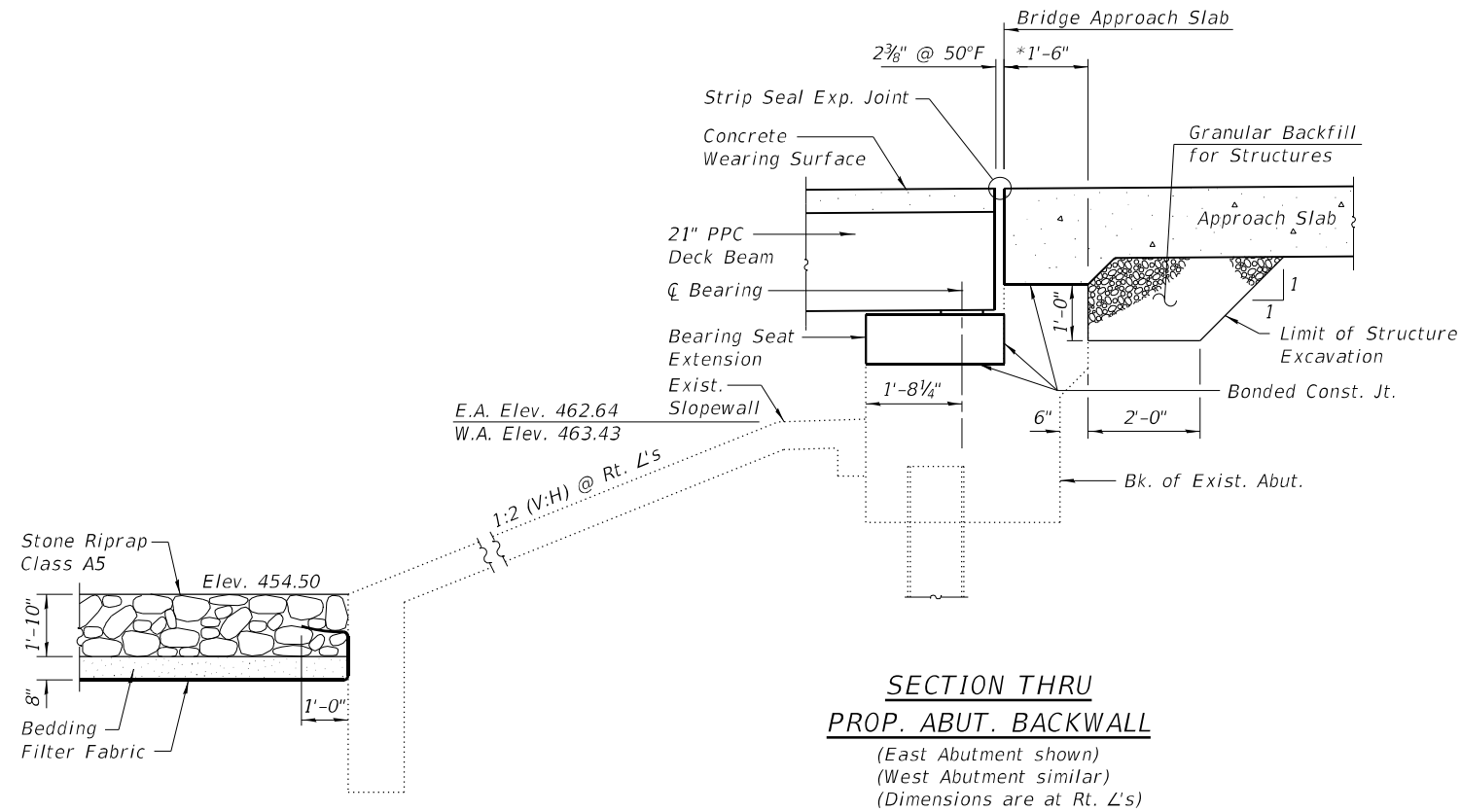
USER NAME	DESIGNED	REVISIONS
MIS	MIS	
SJF	SJF	
SAE	SAE	
SJF	SJF	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45RB)BR	PEORIA	86	44
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68E48	

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
3. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
4. The Contractor is advised that the existing P.P.C. Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removing and replacement of the superstructure.
5. If the Contractor's procedure for existing beam removal or placement of new beams involves placement of heavy equipment on new beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations prepared and sealed by an Illinois Licensed Structural Engineer verifying the structural adequacy of the beams for the proposed loads. Cost included with Removal of Existing Superstructure.



**SECTION THRU
PROP. ABUT. BACKWALL**
(East Abutment shown)
(West Abutment similar)
(Dimensions are at Rt. L's)

* Backwall thickness is based on joint opening resulting from the rolled rail dimensions depicted on Sheet 13 of 22 . Adjust thickness dimension as needed if alternate rail type is used.

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3 Top of West Approach Slab Elevations
- 4 Top of East Approach Slab Elevations
- 5 Superstructure
- 6 Superstructure Details
- 7 21" x 36" PPC Deck Beam Spans 1 & 3
- 8 21" x 36" PPC Deck Beam Details Spans 1 & 3
- 9 21" x 36" PPC Deck Beam Span 2
- 10 21" x 36" PPC Deck Beam Details Span 2
- 11-12 Bridge Approach Slab Details
- 13 Steel Railing, Type SM
- 14 Preformed Joint Strip Seal and Retainers
- 15 West Abutment Concrete Removal and Repair
- 16 East Abutment Concrete Removal and Repair
- 17 West Abutment
- 18 East Abutment
- 19 Pier 2
- 20 Pier 1
- 21 Pier 2 Concrete Repairs
- 22 Pier 1 Concrete Repairs

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.		207	207
Stone Riprap, Class A5	Sq. Yd.		630	630
Filter Fabric	Sq. Yd.		630	630
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		5.6	5.6
Structure Excavation	Cu. Yd.		16	16
Concrete Structures	Cu. Yd.		47.8	47.8
* Bridge Deck Grooving	Sq. Yd.	853		853
* Protective Coat	Sq. Yd.	853		853
Concrete Superstructure (Approach Slab)	Cu. Yd.	123.1		123.1
Precast Prestressed Concrete Deck Beams (21" depth)	Sq. Ft.	5142		5142
Reinforcement Bars, Epoxy Coated	Pound	50615	8125	58740
Steel Railing, Type SM	Foot	306		306
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	86		86
Granular Backfill for Structures	Cu. Yd.		16	16
Epoxy Crack Injection	Foot		35	35
Concrete Wearing Surface, 5"	Sq. Yd.	573		573
Asbestos Bearing Pad Removal	Each	15		15
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.		58.5	58.5

* Includes Bridge Approach Slabs

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	CHECKED - SJF	REVISED -
PLOT SCALE	DRAWN - SAE	REVISED -
PLOT DATE	CHECKED - SJF	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
STRUCTURE NO. 072-0008**

SHEET 2 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45RB)BR	PEORIA	86	45
			CONTRACT NO. 68E48	
		ILLINOIS	FED. AID PROJECT	

CL LINES AND P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
Begin of W. Appr. Pav't	176+85.29	0.00	468.11
A	176+95.29	0.00	468.05
B	177+05.29	0.00	467.98
End of W. Appr. Pav't	177+15.29	0.00	467.92

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Begin of W. Appr. Pav't	176+88.82	20.00	467.79
A	176+98.82	20.00	467.73
B	177+08.82	20.00	467.66
End of W. Appr. Pav't	177+18.82	20.00	467.60

NORTH EDGE OF PAVEMENT

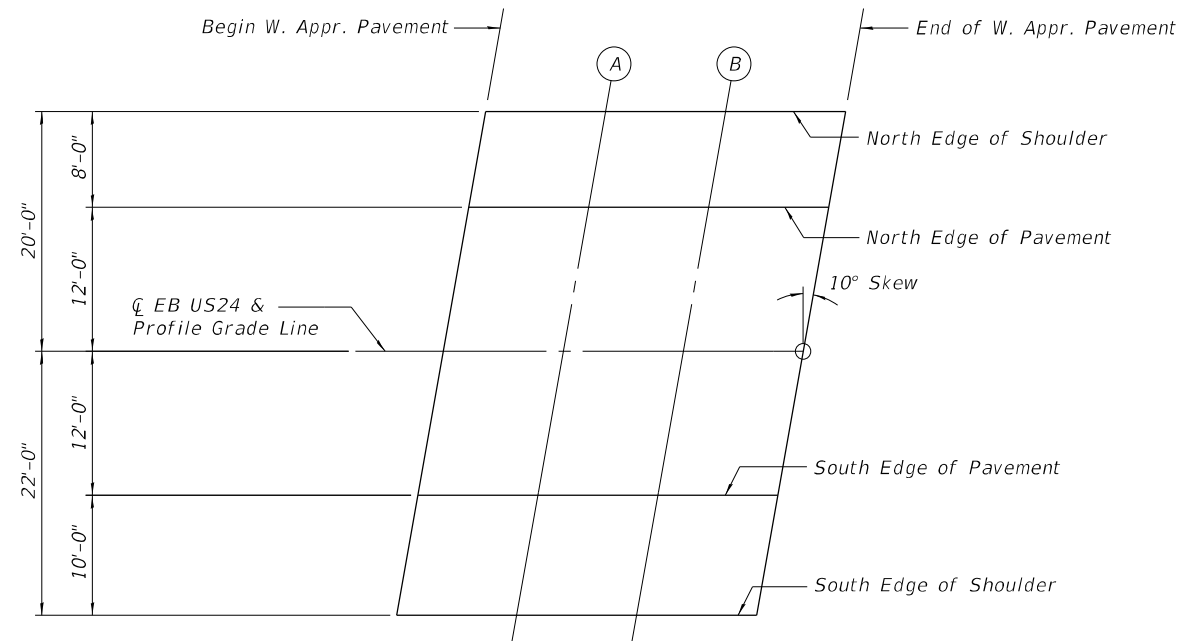
Location	Station	Offset	Theoretical Grade Elevations
Begin of W. Appr. Pav't	176+87.40	12.00	467.92
A	176+97.40	12.00	467.86
B	177+07.40	12.00	467.79
End of W. Appr. Pav't	177+17.40	12.00	467.73

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Begin of W. Appr. Pav't	176+83.17	12.00	467.95
A	176+93.17	12.00	467.88
B	177+03.17	12.00	467.82
End of W. Appr. Pav't	177+13.17	12.00	467.75

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Begin of W. Appr. Pav't	176+81.41	22.00	467.81
A	176+91.41	22.00	467.74
B	177+01.41	22.00	467.68
End of W. Appr. Pav't	177+11.41	22.00	467.61



PLAN

E-AS

2-17-2017

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PLOT SCALE	DRAWN - SAE	REVISED -
PLOT DATE	CHECKED - SJF	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
 STRUCTURE NO. 072-0008

SHEET 3 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45RB)BR	PEORIA	86	46
CONTRACT NO. 68E48				
ILLINOIS FED. AID PROJECT				

CL LANES AND P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
Begin of E. Appr. Pav't	178+38.25	0.00	467.11
A	178+48.25	0.00	467.05
B	178+58.25	0.00	466.98
End of E. Appr. Pav't	178+68.25	0.00	466.92

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Begin of E. Appr. Pav't	178+41.78	20.00	466.79
A	178+51.78	20.00	466.73
B	178+61.78	20.00	466.66
End of E. Appr. Pav't	178+71.78	20.00	466.60

NORTH EDGE OF PAVEMENT

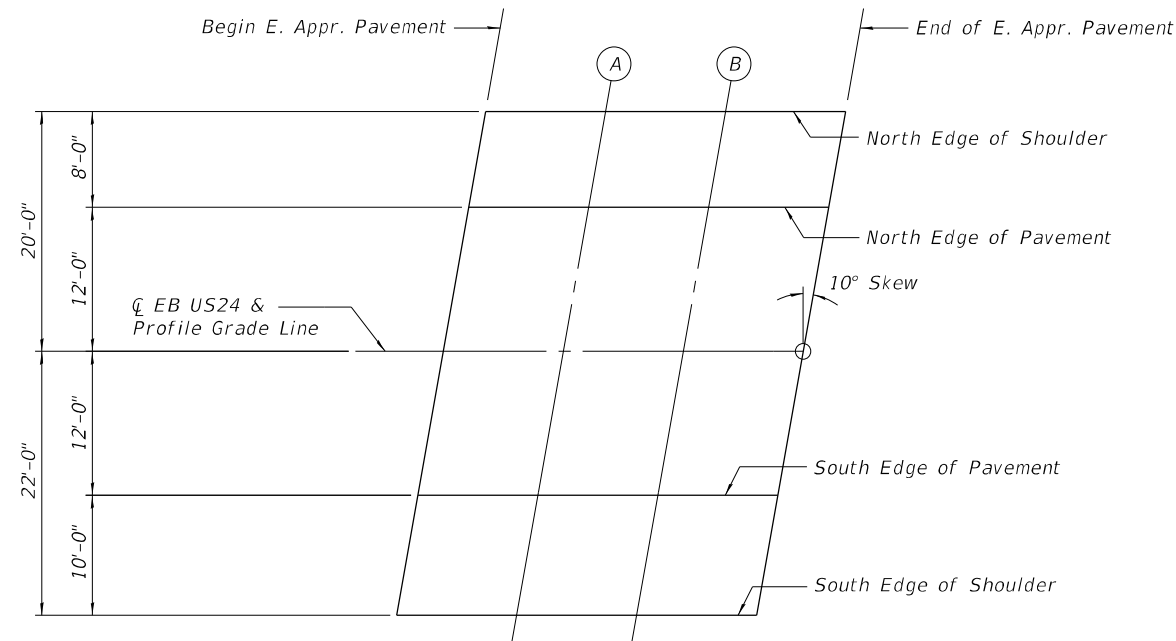
Location	Station	Offset	Theoretical Grade Elevations
Begin of E. Appr. Pav't	178+40.37	12.00	466.92
A	178+50.37	12.00	466.86
B	178+60.37	12.00	466.79
End of E. Appr. Pav't	178+70.37	12.00	466.73

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Begin of E. Appr. Pav't	178+36.13	12.00	466.95
A	178+46.13	12.00	466.88
B	178+56.13	12.00	466.82
End of E. Appr. Pav't	178+66.13	12.00	466.75

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Begin of E. Appr. Pav't	178+34.37	22.00	466.81
A	178+44.37	22.00	466.74
B	178+54.37	22.00	466.68
End of E. Appr. Pav't	178+64.37	22.00	466.61



PLAN

E-AS 2-17-2017

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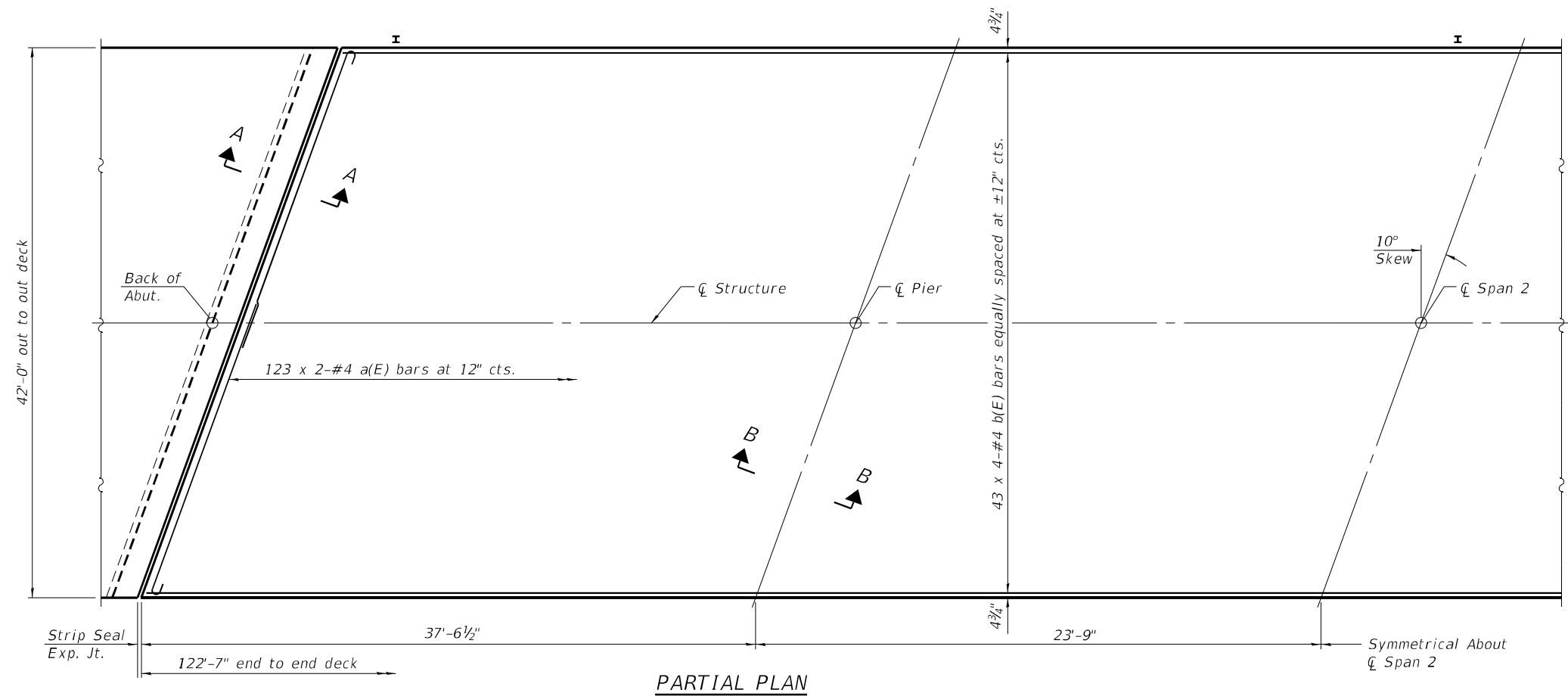
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF EAST APPROACH SLAB ELEVATIONS
 STRUCTURE NO. 072-0008

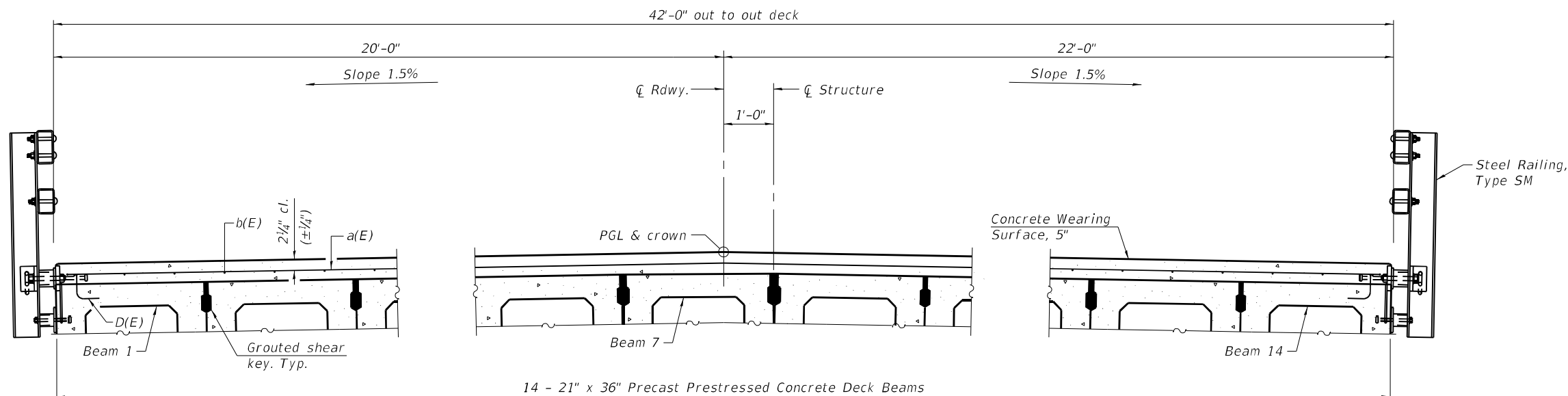
SHEET 4 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68E48				
ILLINOIS FED. AID PROJECT				

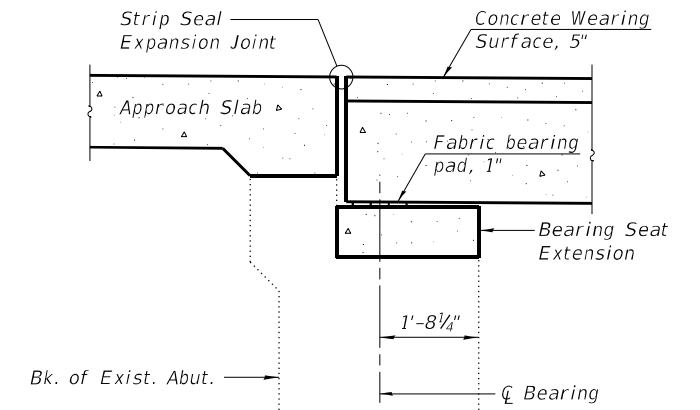


PARTIAL PLAN

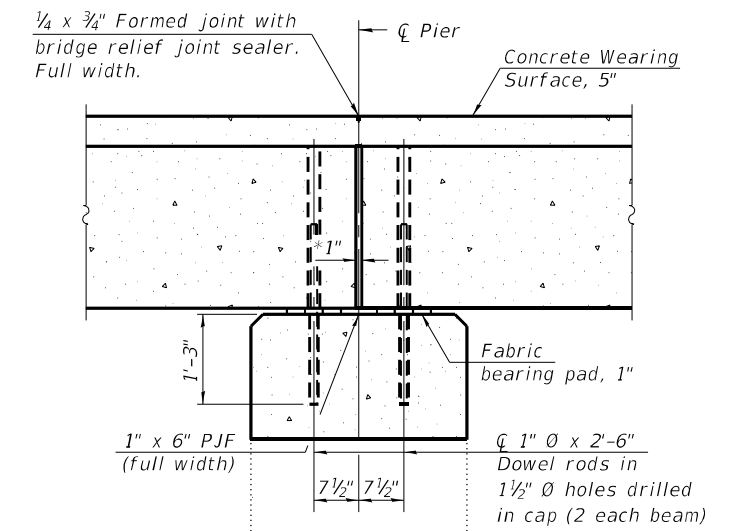
MINIMUM BAR LAP
#4 bar = 2'-7"



CROSS SECTION
(Looking East)



SECTION A-A
(Dimensions are at Rt. L's)



SECTION B-B
(Dimensions are at Rt. L's)

*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

Notes:
See sheet 6 of 22 for Superstructure Details and Bill of Material.
Bars indicated thus 43 x 4-#4 etc. indicates 43 lines of bars with 4 lengths per line.
Spacing of a(E) bars shall be measured along the centerline of structure.
Concrete wearing surface shall be placed prior to casting approach slab.
See sheet 8 and 10 of 22 for fabric bearing pad details.

SF-DB1742-CWS-R34-2-L 1-1-2020

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PLOT SCALE	DRAWN - SAE	REVISIONS
PLOT DATE	CHECKED - SJF	REVISIONS

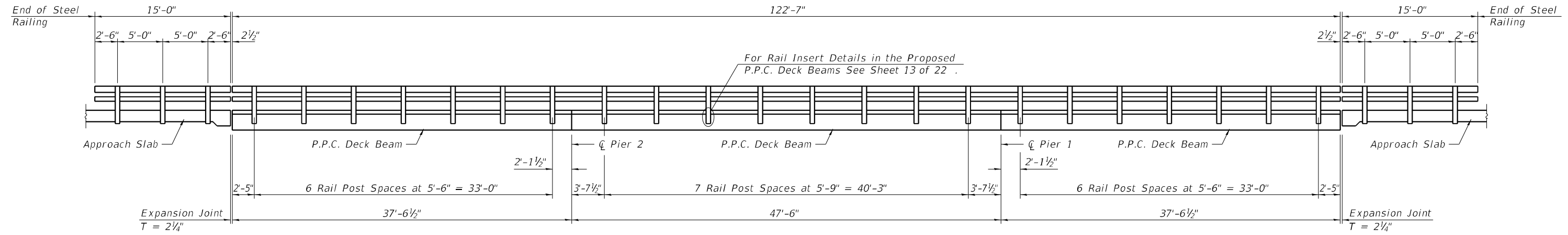
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 072-0008

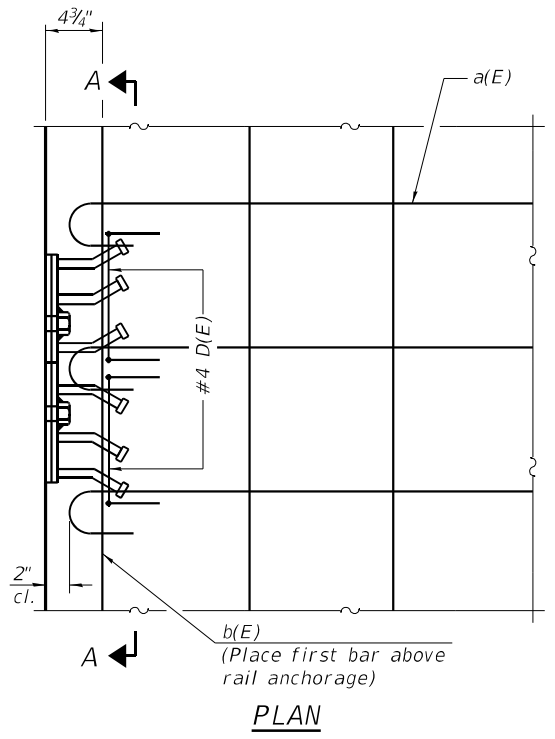
SHEET 5 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45RB)BR	PEORIA	86	48
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68E48	

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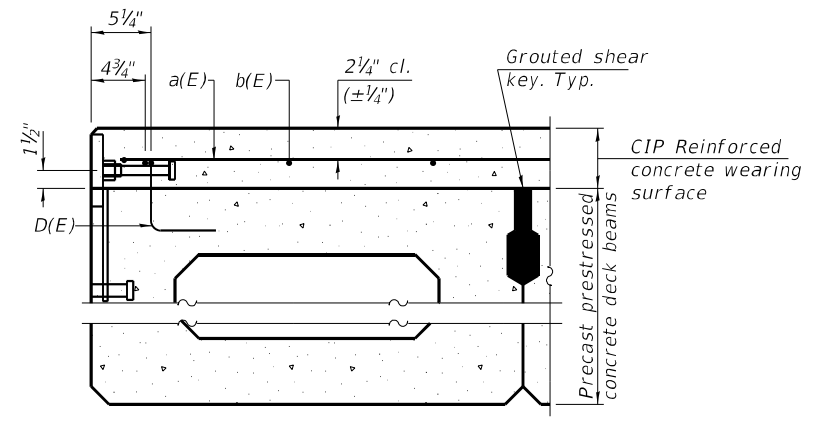


RAIL POST SPACING FOR STEEL BRIDGE RAIL

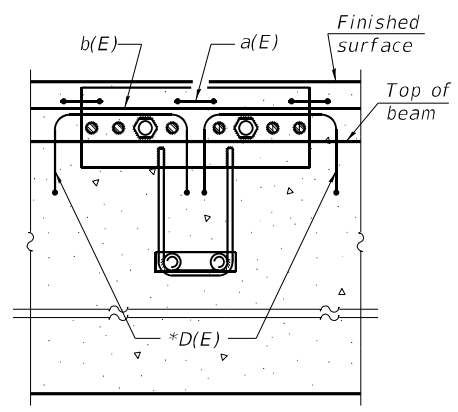


PLAN

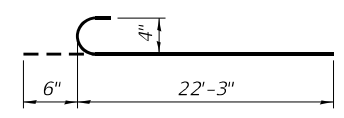
Notes:
Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam.



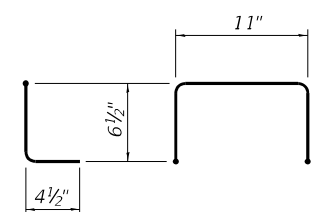
SECTION THRU FASCIA BEAM



SECTION A-A

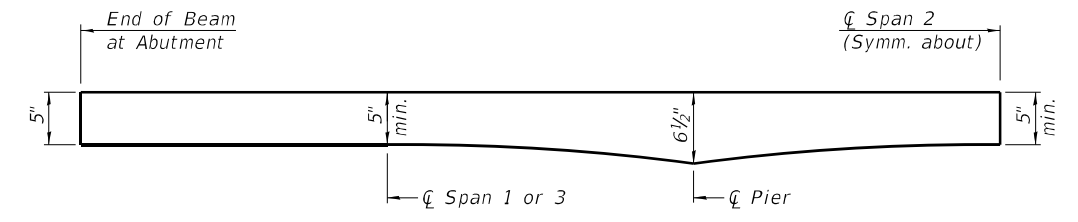


BAR a(E)

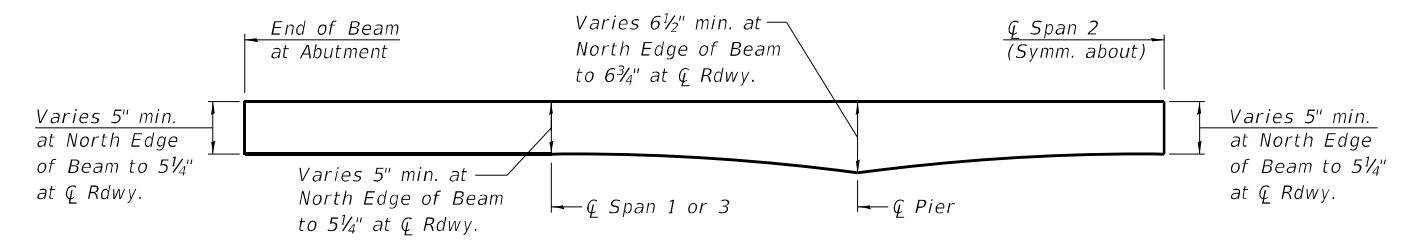


BAR D(E)

* Place 2-#4 D(E) bars in beam at each post location as shown. D(E) bar included in cost of beam.



REINFORCED CONCRETE WEARING SURFACE PROFILE
(Typical at locations except Beam 7)



REINFORCED CONCRETE WEARING SURFACE PROFILE
(Beam 7)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	246	#4	22'-9"	C
b(E)	172	#4	32'-7"	—
Reinforcement Bars, Epoxy Coated			Pound	7485
Concrete Wearing Surface, 5"			Sq. Yd.	573

Bars indicated thus 43 x 4-#4 etc. indicates 43 lines of bars with 4 lengths per line.

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SDF-DB1742-CWS-R34 1-1-2020

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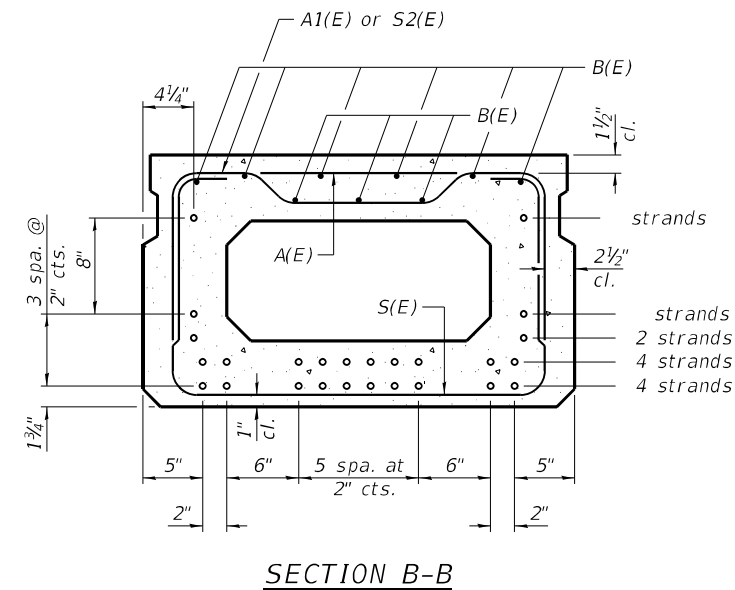
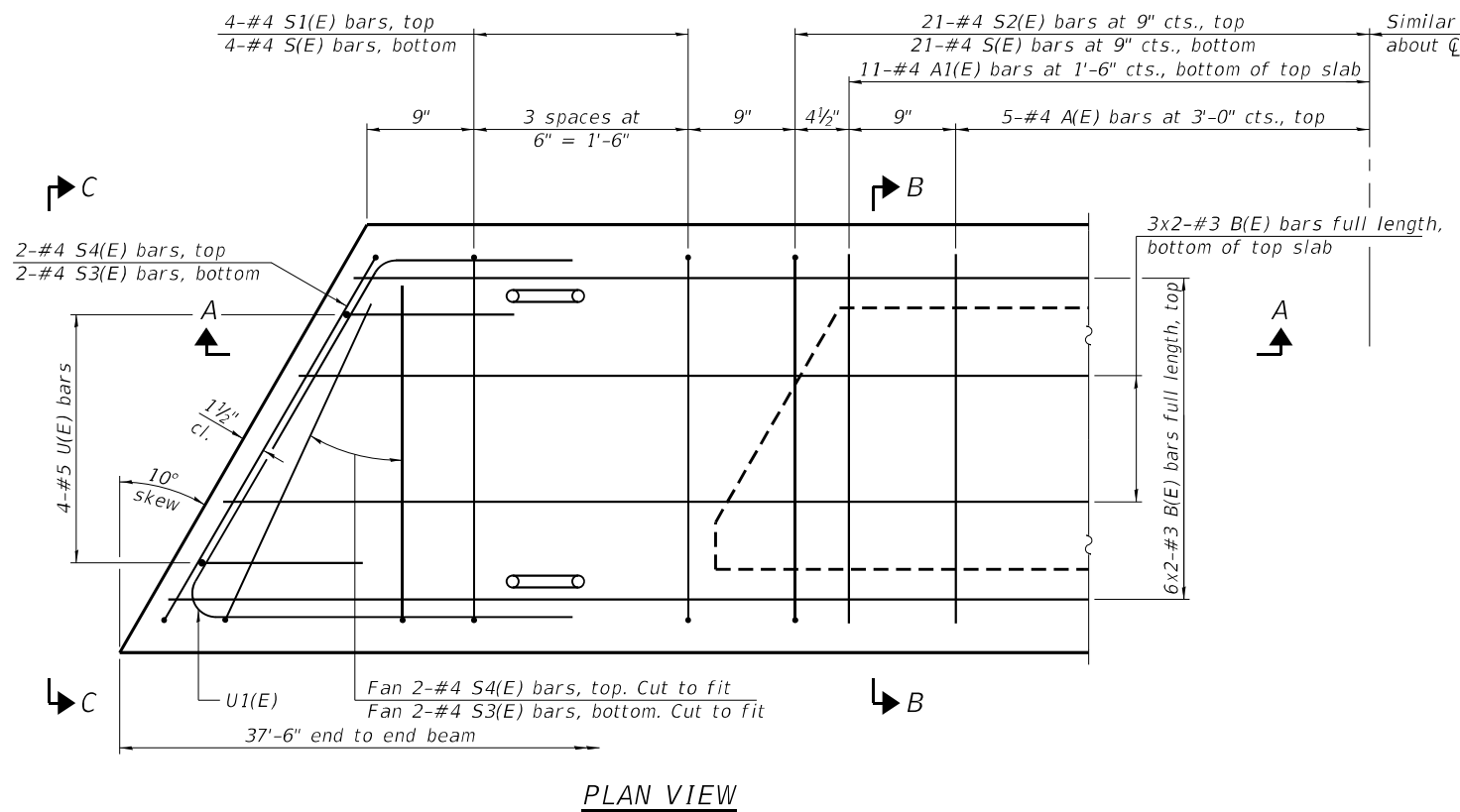
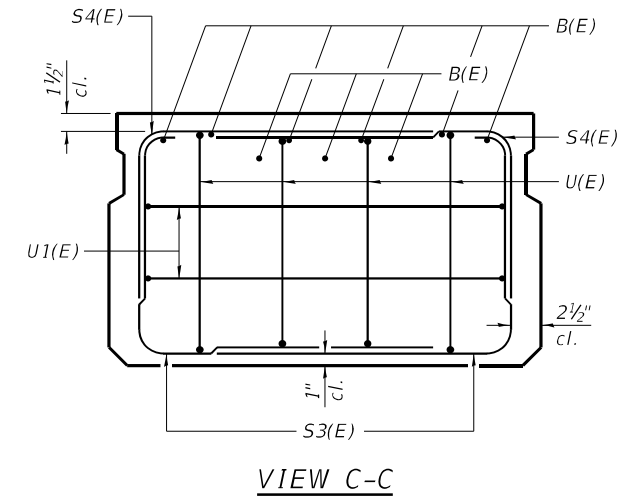
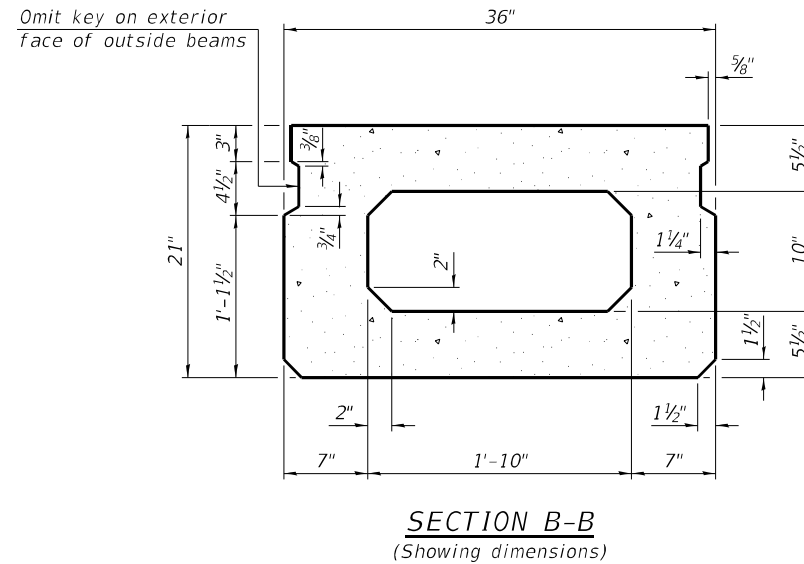
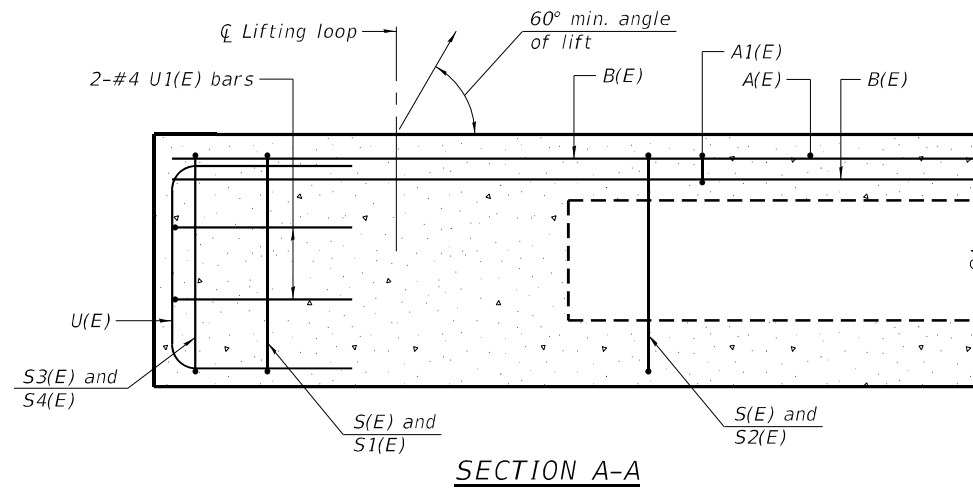
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DRAWN - SAE	REVISIONS -
CHECKED - SJF	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 072-0008

SHEET 6 OF 22 SHEETS

F.A.P. RTE. 317	SECTION (45R8)BR	COUNTY PEORIA	TOTAL SHEETS 86	SHEET NO. 49
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68E48	



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.

MINIMUM BAR LAP
#3 bar = 1'-6"

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	10	#4	2'-7"	—
A1(E)	22	#4	2'-10"	—
B(E)	18	#3	19'-5"	—
S(E)	50	#4	6'-5"	U
S1(E)	8	#4	4'-11"	U
S2(E)	42	#4	5'-2"	U
S3(E)	8	#4	4'-3"	U
S4(E)	8	#4	3'-6"	U
U(E)	8	#5	4'-0"	C
U1(E)	4	#4	5'-6"	C

Note:
See sheet 8 of 22 for additional details and Bill of Material.
Bars indicated thus 6 x 2-#3 etc. indicates 6 lines of bars with 2 lengths per line.

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.

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PD-2136-L 1-1-2020

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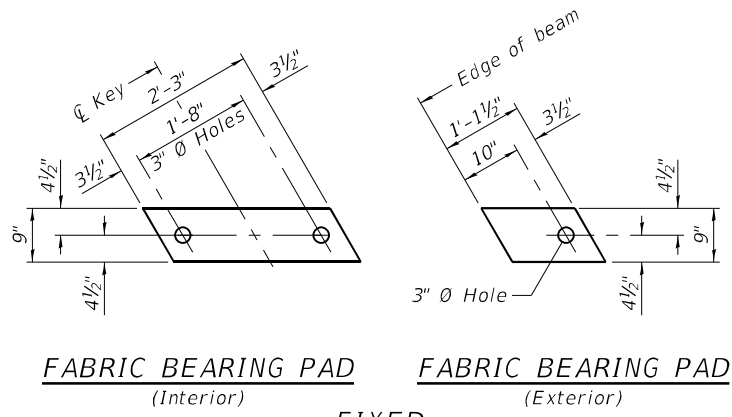
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21" x 36" PPC DECK BEAM SPANS 1 & 3
STRUCTURE NO. 072-0008

SHEET 7 OF 22 SHEETS

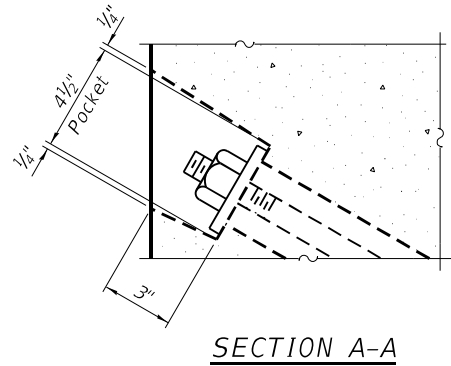
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45RB)BR	PEORIA	86	50
CONTRACT NO. 68E48				

ILLINOIS FED. AID PROJECT

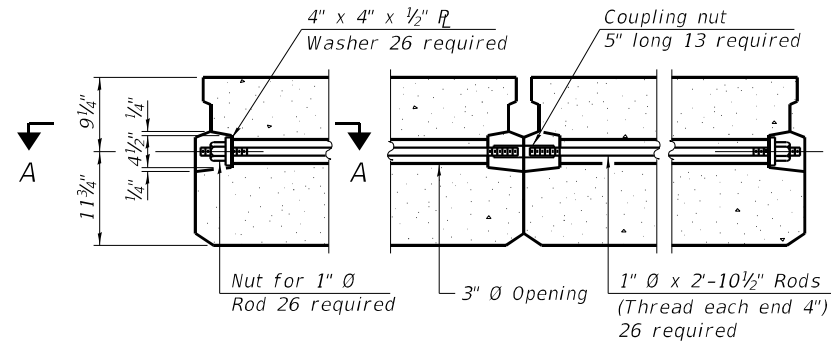


FABRIC BEARING PAD
(Interior) **FIXED**
FABRIC BEARING PAD
(Exterior)

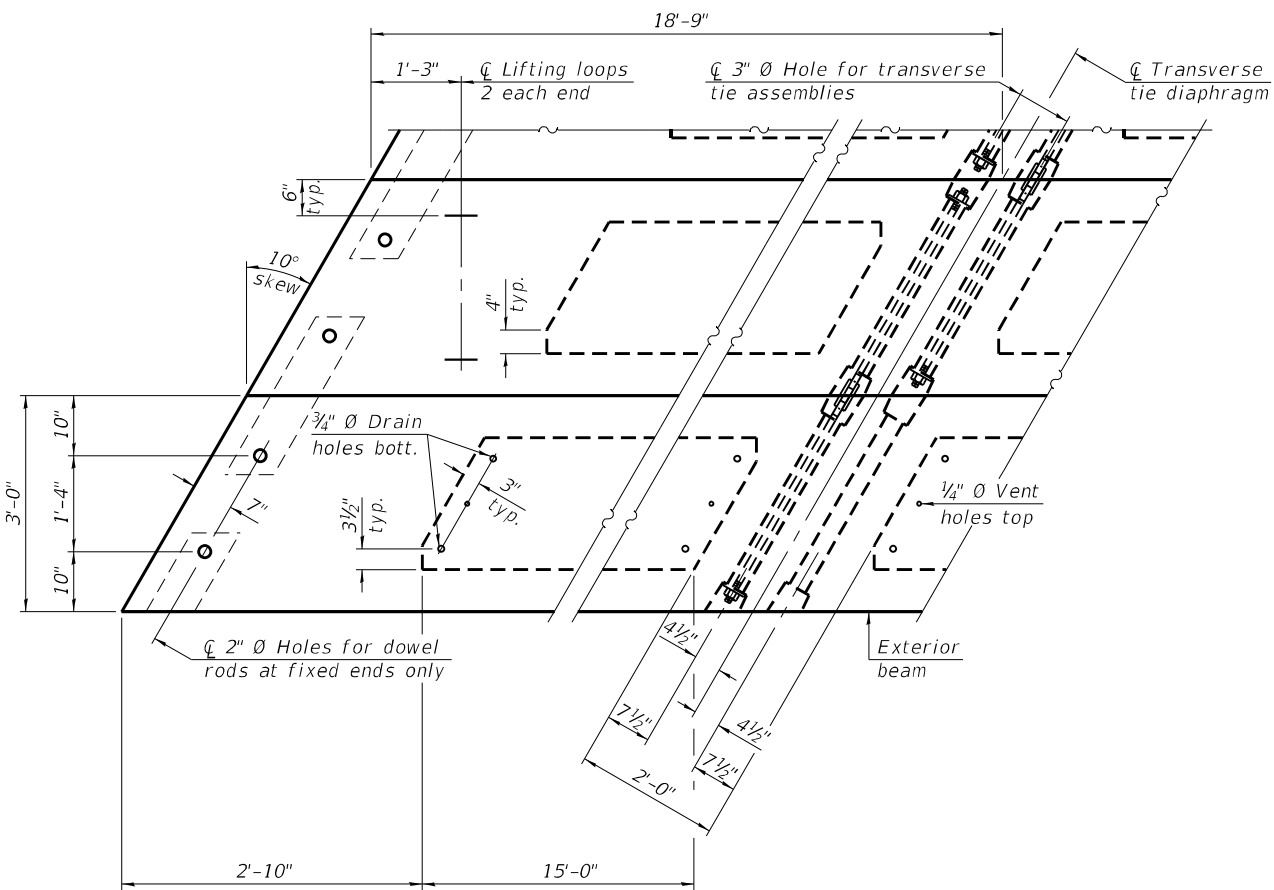
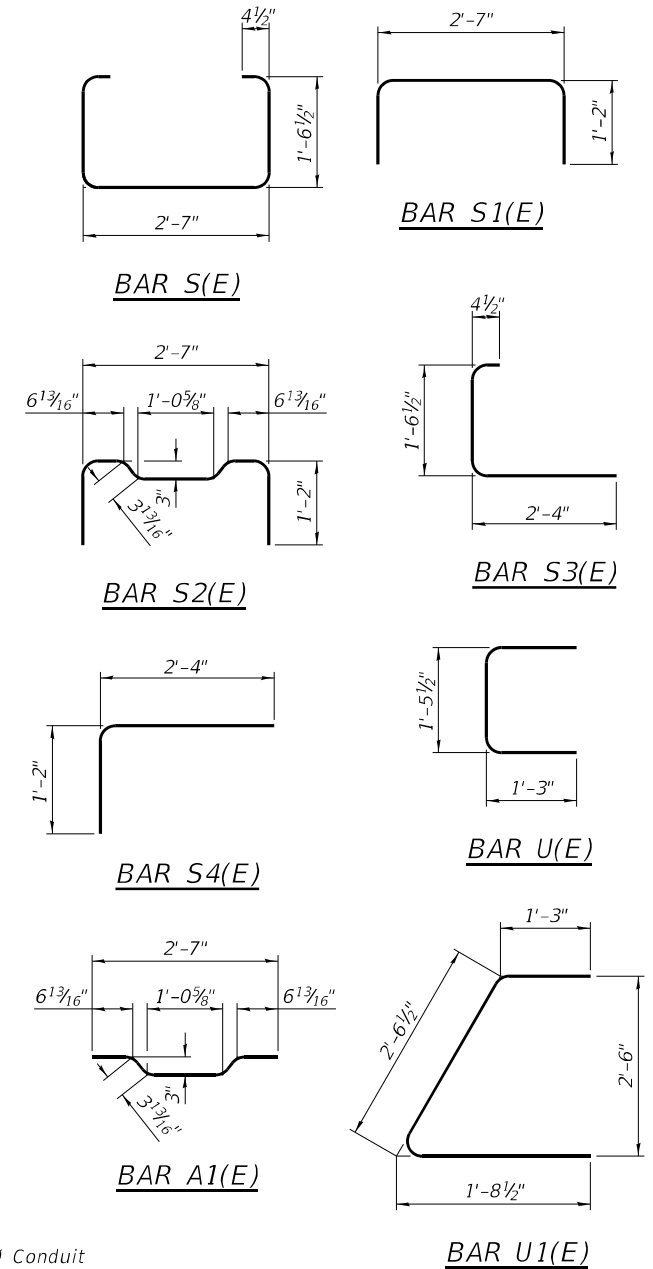
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pads shall be bonded to the substructure.



SECTION A-A



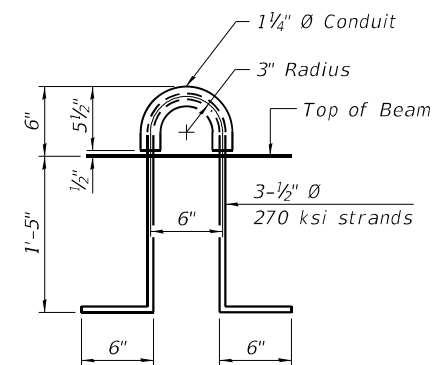
TYPICAL TRANSVERSE TIE ASSEMBLY



PLAN VIEW

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" \varnothing 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 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. A minimum 2 1/2" \varnothing lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	3150
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Note:
Connect beams in pairs with the transverse tie configuration shown.

PDD-2136-L 1-1-2020

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DESIGNED - MIS	REVISIONS	
CHECKED - SJF	REVISIONS	
DRAWN - SAE	REVISIONS	
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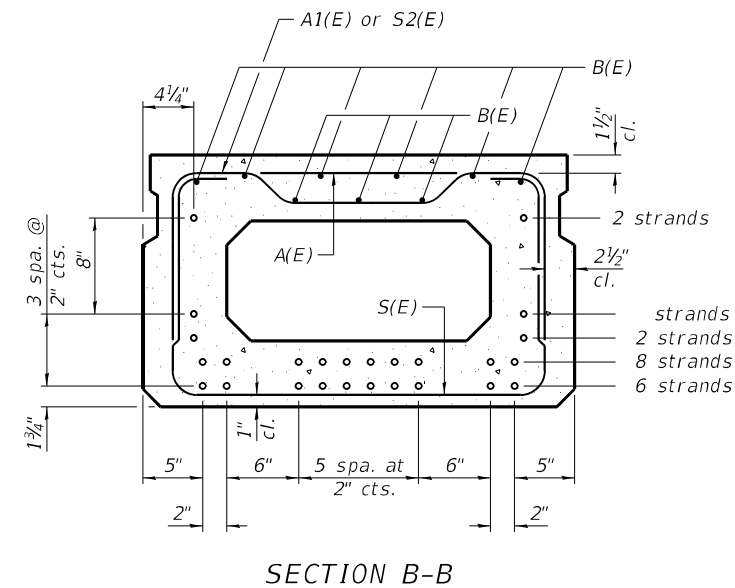
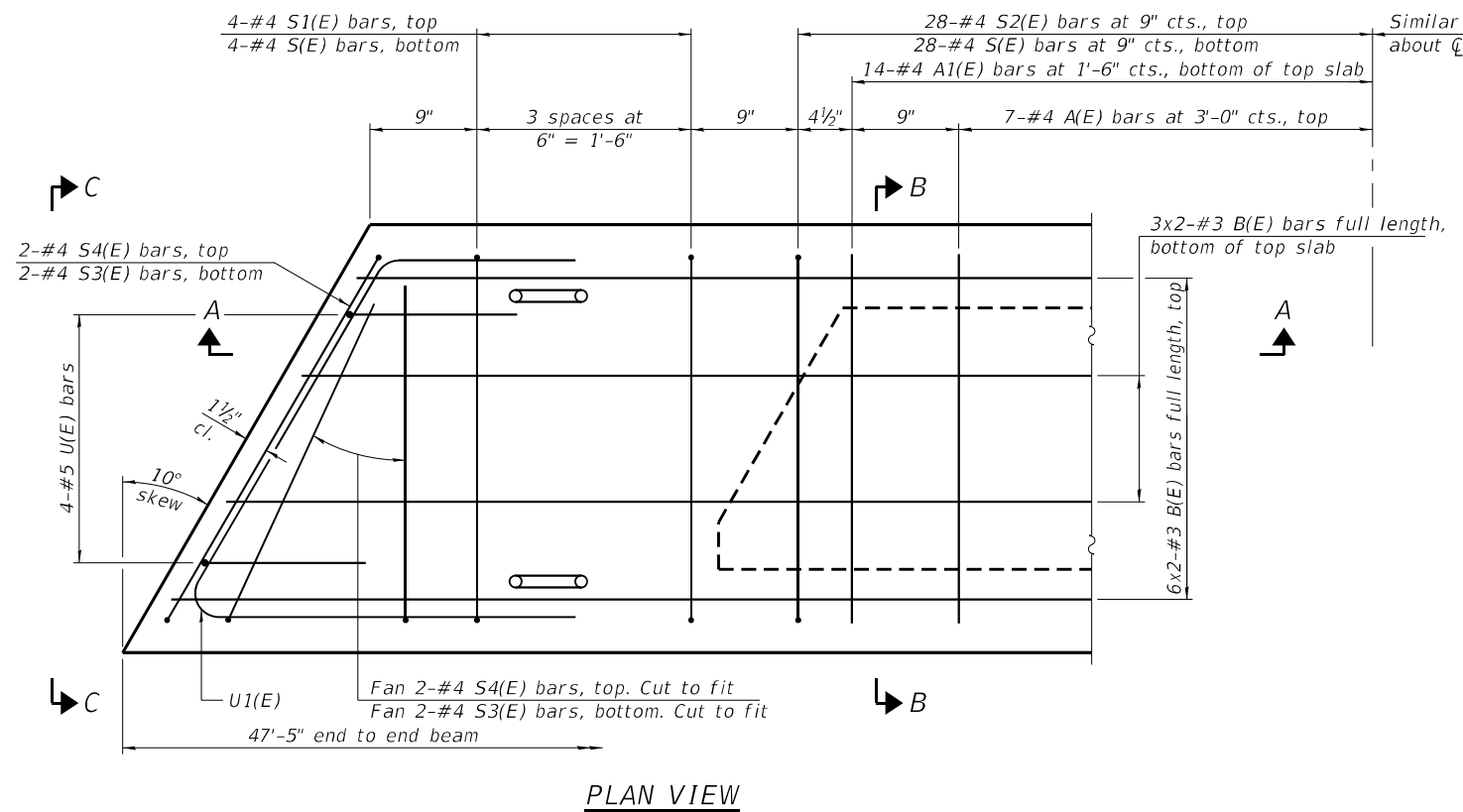
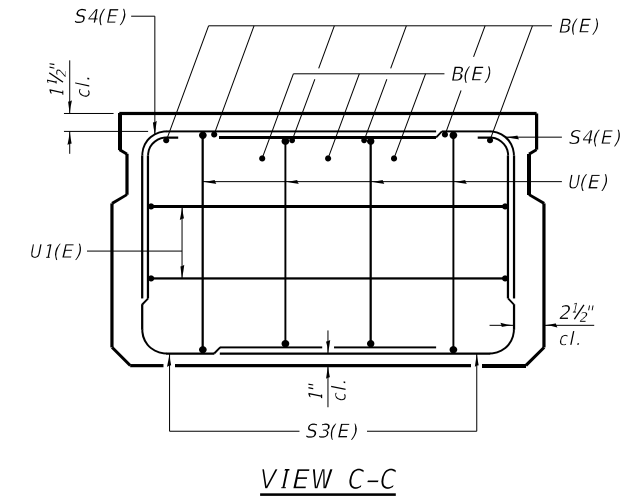
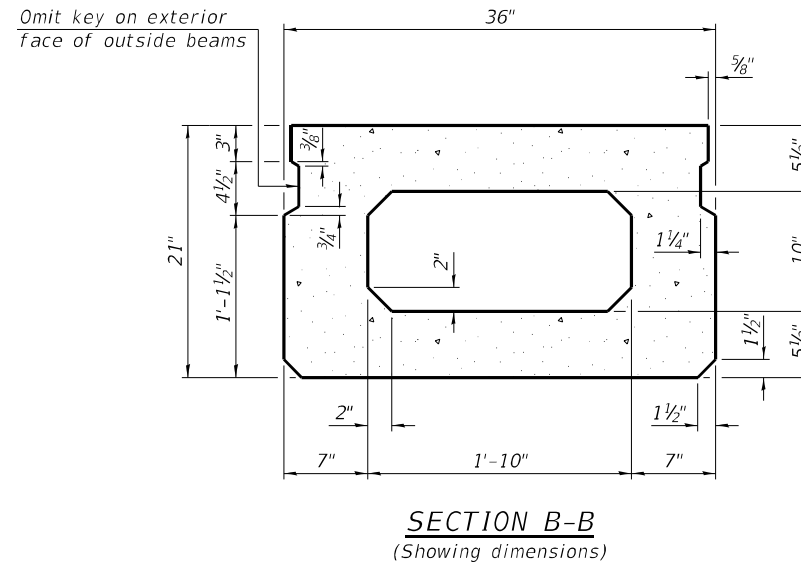
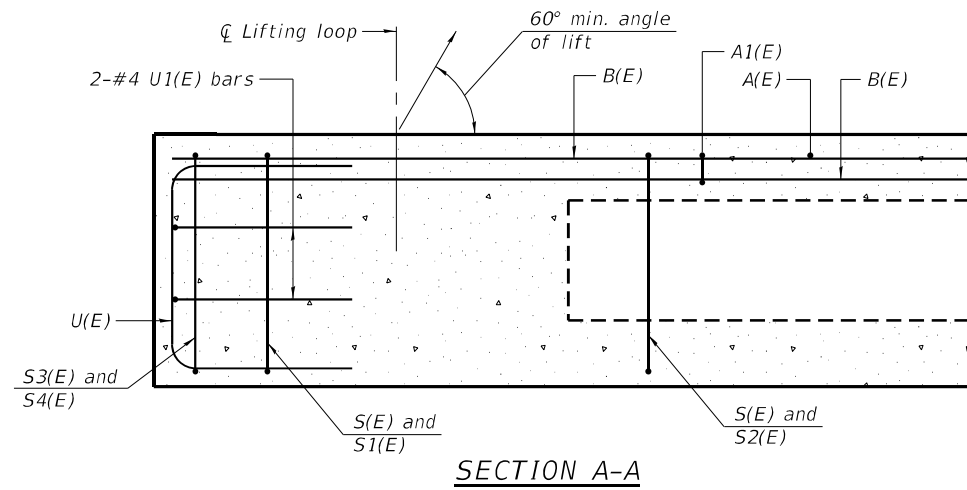
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DEPARTMENT OF TRANSPORTATION

21" x 36" PPC DECK BEAM DETAILS SPANS 1 & 3
STRUCTURE NO. 072-0008

SHEET 8 OF 22 SHEETS

F.A.P. RTE. 317	SECTION (45RB)BR	COUNTY PEORIA	TOTAL SHEETS 86	SHEET NO. 51
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68E48	

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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)	14	#4	2'-7"	—
A1(E)	28	#4	2'-10"	—
B(E)	18	#3	24'-4"	—
S(E)	64	#4	6'-5"	U
S1(E)	8	#4	4'-11"	U
S2(E)	56	#4	5'-2"	U
S3(E)	8	#4	4'-3"	U
S4(E)	8	#4	3'-6"	U
U(E)	8	#5	4'-0"	C
U1(E)	4	#4	5'-6"	C

Note:
See sheet 10 of 22 for additional details and Bill of Material.
Bars indicated thus 6 x 2-#3 etc. indicates 6 lines of bars with 2 lengths per line.

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.

MINIMUM BAR LAP
#3 bar = 1'-6"

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1-1-2020

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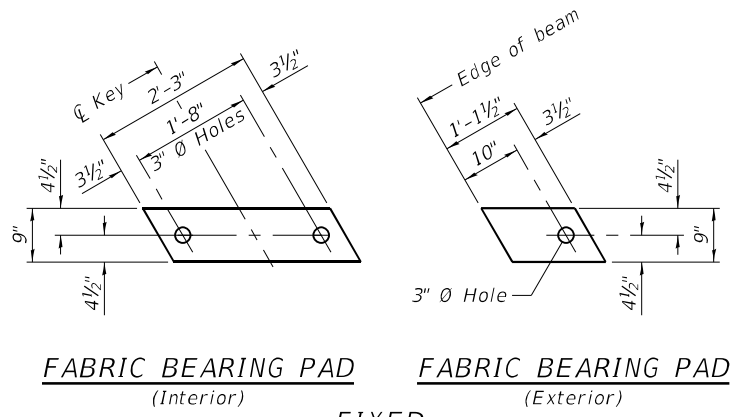
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-	- SAE	-
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DEPARTMENT OF TRANSPORTATION

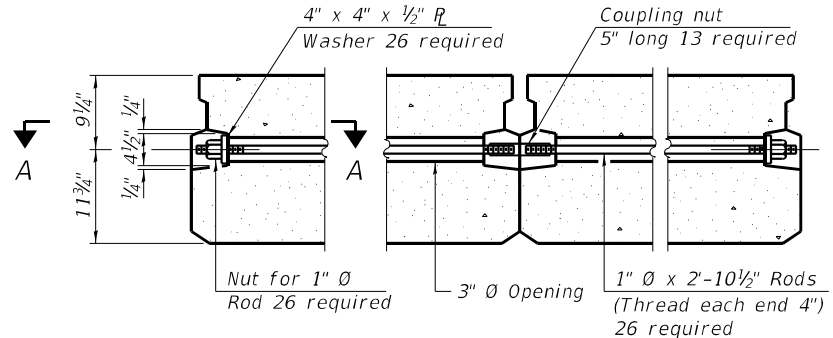
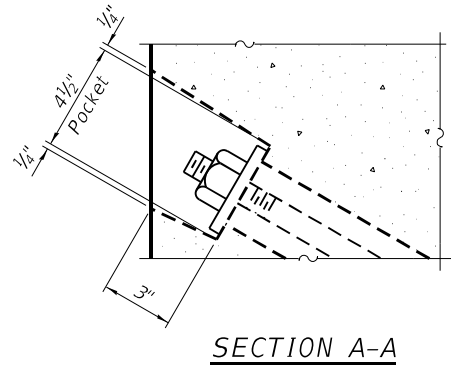
21" x 36" PPC DECK BEAM SPAN 2
STRUCTURE NO. 072-0008

SHEET 9 OF 22 SHEETS

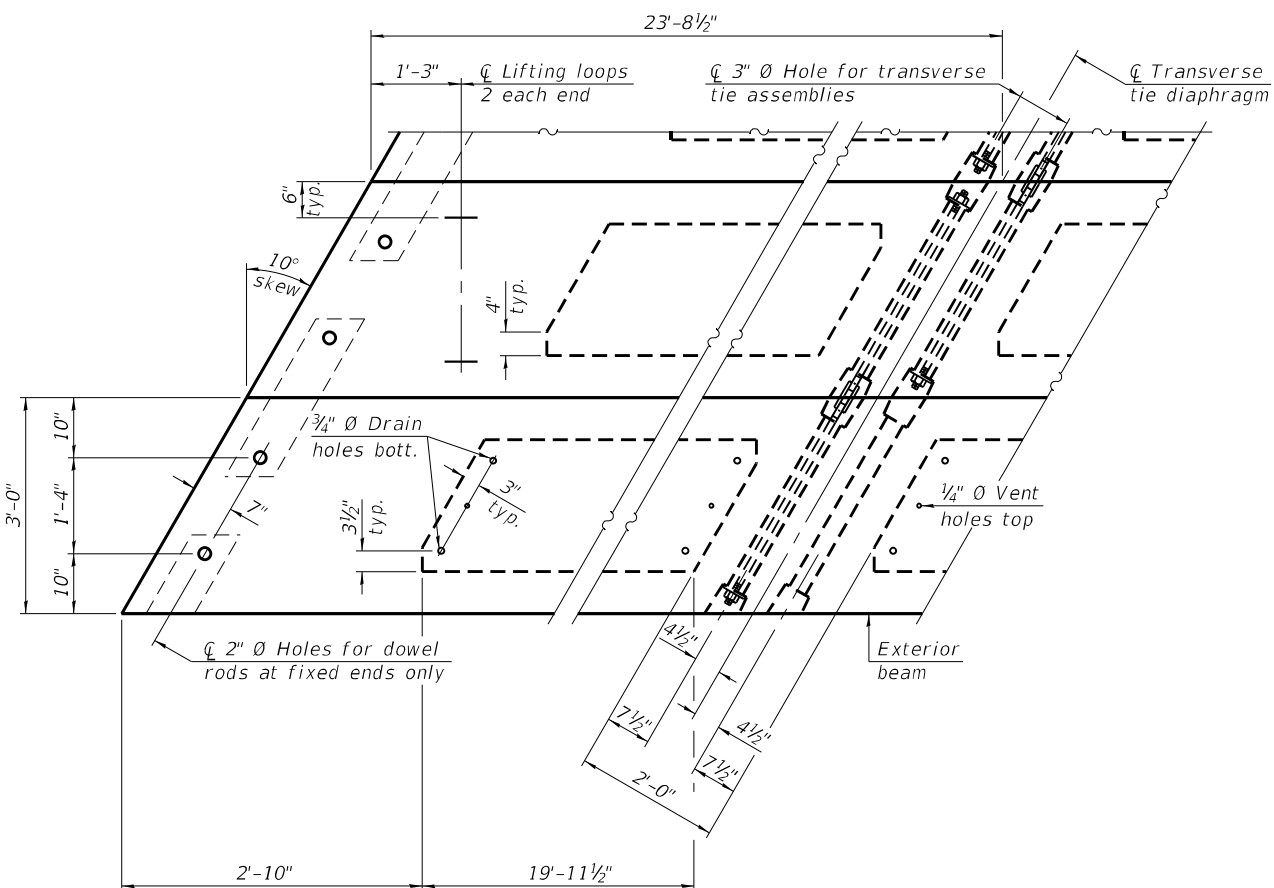
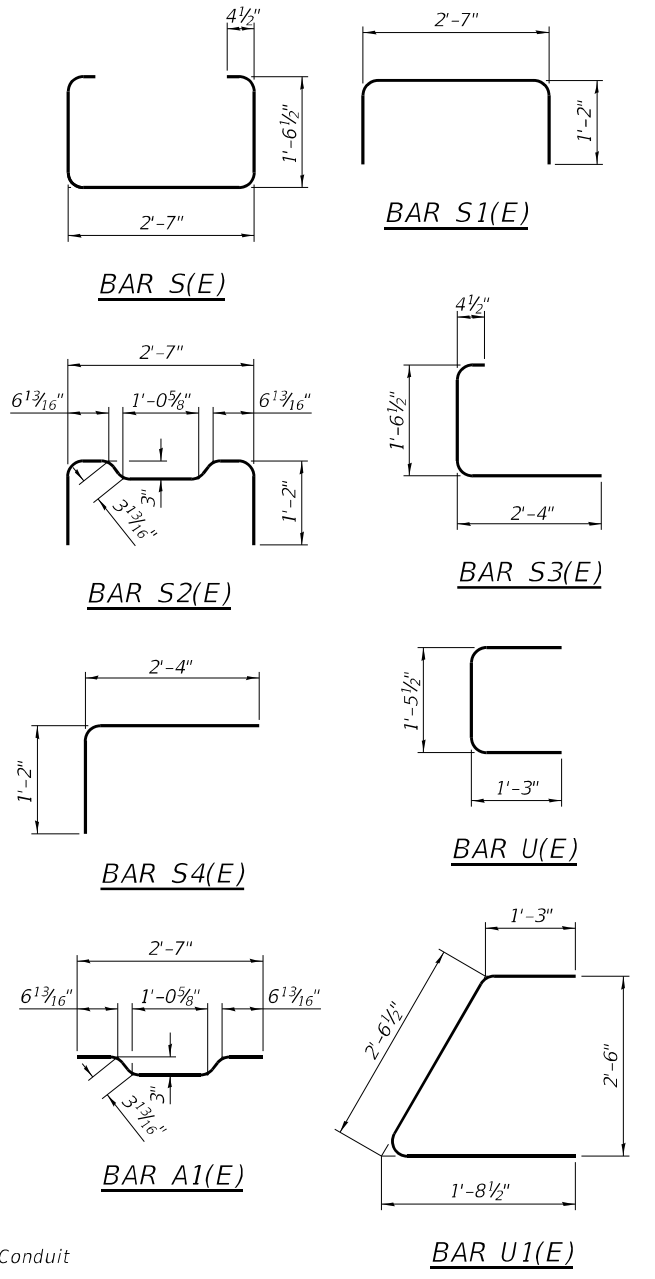
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45RB)BR	PEORIA	86	52
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68E48	



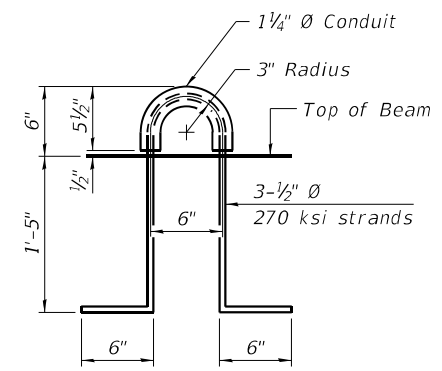
FIXED



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



NOTES
 Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2 inch and the nominal cross-sectional area shall be 0.153 sq. in. The 1 inch diameter 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 1/8 inch fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. A minimum 2 1/2 inch diameter lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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. (21" depth)	Sq. Ft.	1992
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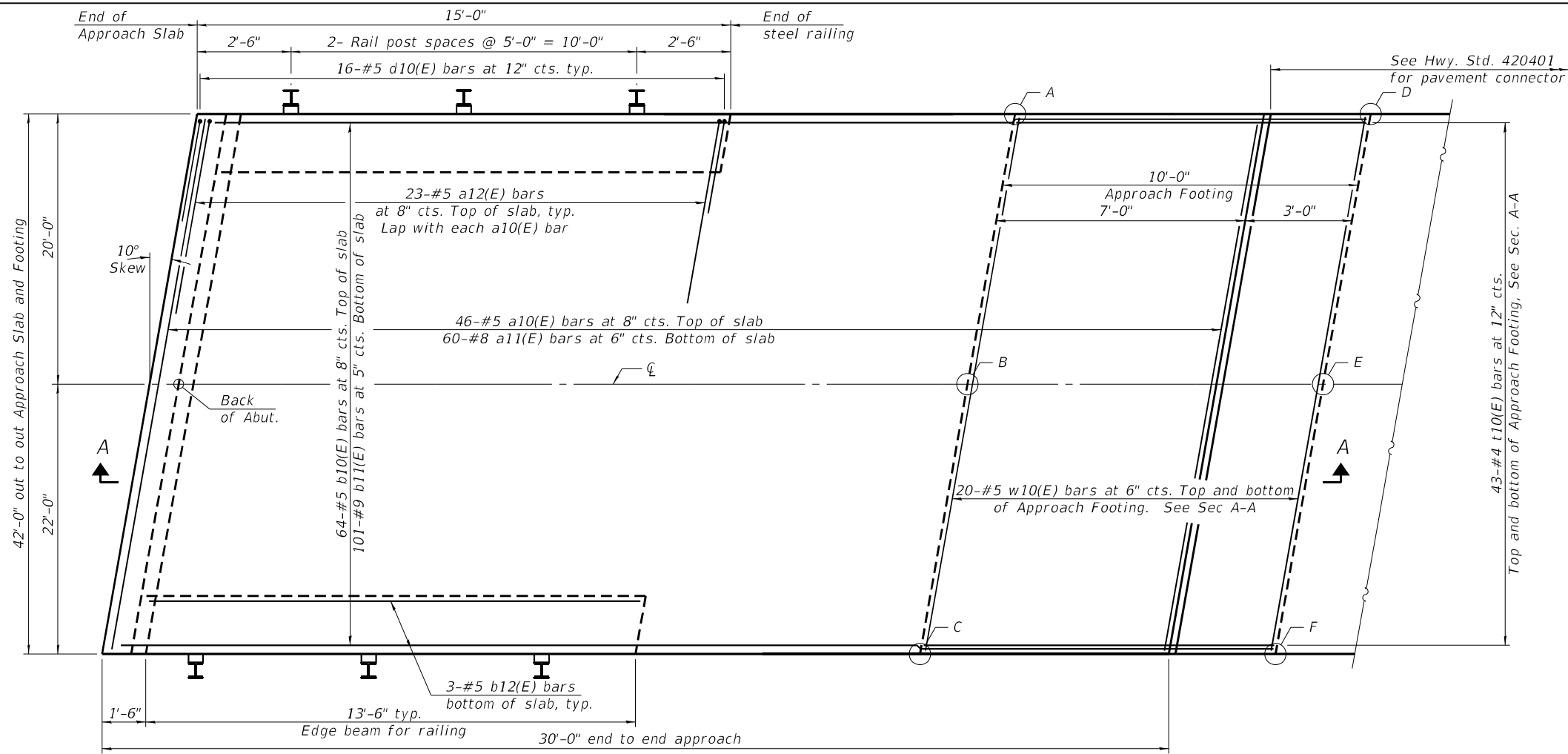
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DRAWN - SAE	REVISIONS
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**21" x 36" PPC DECK BEAM DETAILS SPAN 2
 STRUCTURE NO. 072-0008**

SHEET 10 OF 22 SHEETS

F.A.P. RTE. 317	SECTION (45RB)BR	COUNTY PEORIA	TOTAL SHEETS 86	SHEET NO. 53
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68E48	



TOP AND BOTTOM ELEVATIONS FOR WEST APPROACH FOOTING

Point	Sta.	Offset	Top	Bottom
A	176+95.82	20' Lt	466.49	465.66
B	176+92.29	0	466.81	465.98
C	176+88.41	22' Rt	466.51	465.68
D	176+85.82	20' Lt	466.56	465.73
E	176+82.29	0	466.88	466.05
F	176+78.41	22' Rt	466.57	465.74

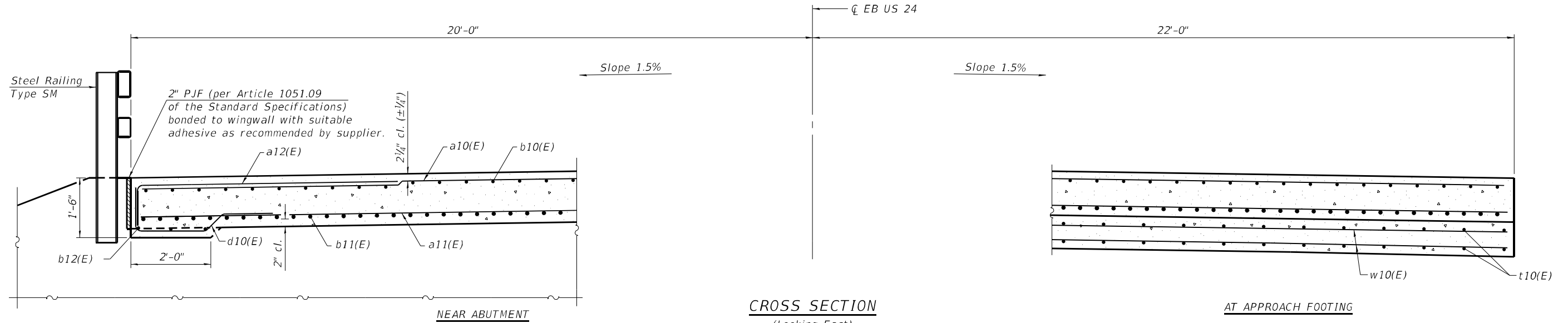
Notes:
For Section A-A see sheet 12 of 22 .

TOP AND BOTTOM ELEVATIONS FOR EAST APPROACH FOOTING

Point	Sta.	Offset	Top	Bottom
A	178+64.78	20' Lt	465.39	464.56
B	178+61.25	0	465.72	464.88
C	178+57.37	22' Rt	465.41	464.58
D	178+74.78	20' Lt	465.33	464.50
E	178+71.25	0	465.65	464.82
F	178+67.37	22' Rt	465.34	464.51

Notes:
For Section A-A see sheet 12 of 22 .

PLAN
(East Appr. shown, West Appr. similar)



CROSS SECTION
(Looking East)

AT APPROACH FOOTING

BAIA-CIP-R34-0 6-15-2019

(Sheet 1 of 2)

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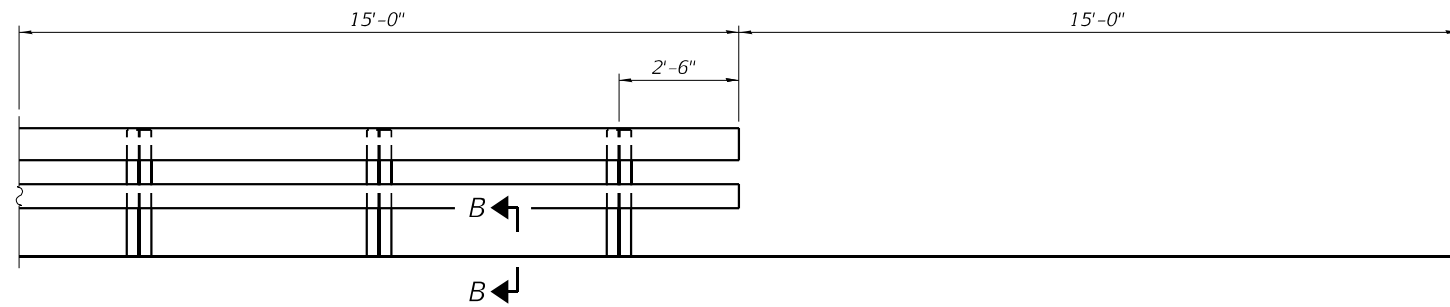
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 072-0008

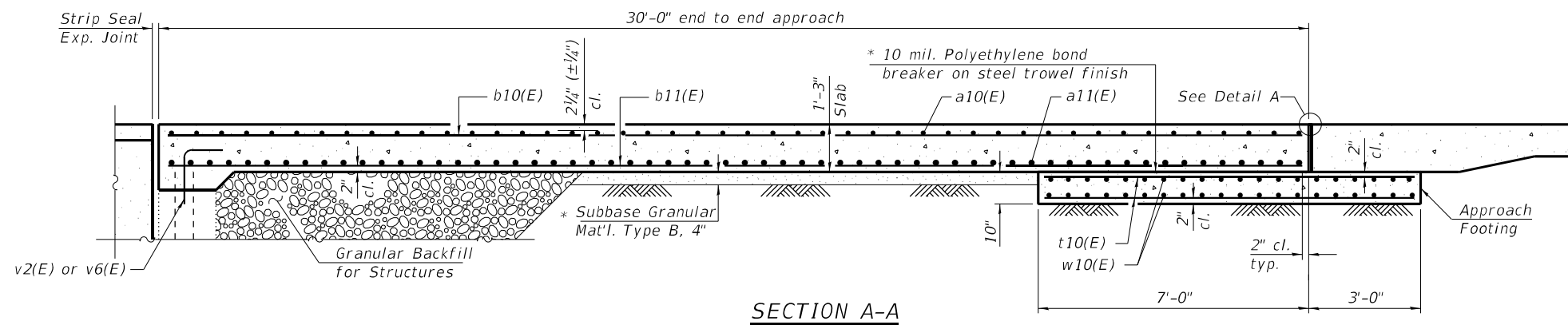
SHEET 11 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT				

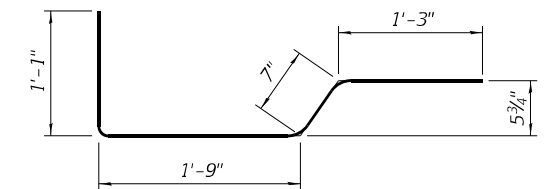


INSIDE ELEVATION OF RAILING

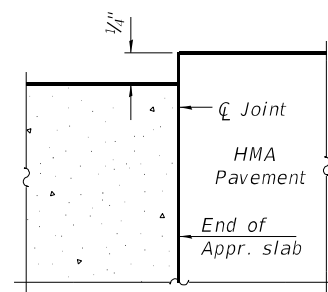
Notes:
 The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications.
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 22.
 For railing details, see sheet 13 of 22.
 For v2(E) and v6(E) bar details, see sheets 17 and 18 of 22.



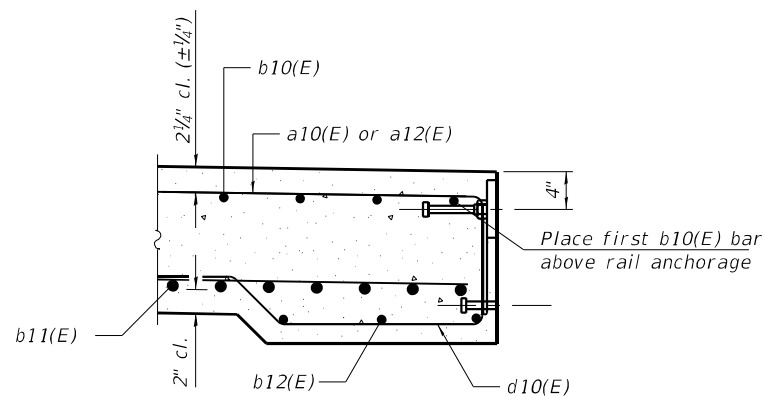
SECTION A-A



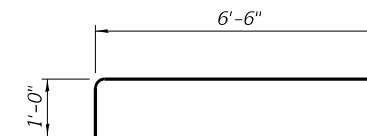
BAR d10(E)



**FLEXIBLE PAVEMENT
DETAIL A**



SECTION B-B



BAR a12(E)

**TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	92	#5	42'-3"	—
a11(E)	120	#8	42'-3"	—
a12(E)	92	#5	7'-6"	┌
b10(E)	128	#5	29'-8"	—
b11(E)	202	#9	29'-8"	—
b12(E)	12	#5	13'-8"	—
d10(E)	64	#5	4'-8"	┌
t10(E)	172	#4	9'-8"	—
w10(E)	80	#5	42'-3"	—
Concrete Superstructure (Approach Slab)			Cu. Yd.	123.1
Concrete Structures			Cu. Yd.	26
Reinforcement Bars, Epoxy Coated			Pound	47,770

* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations

BAIA-CIP-R34-0 6-15-2019

(Sheet 2 of 2)

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DESIGNED - MIS	REVISIONS	1	DATE	DESCRIPTION
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DRAWN - SAE	3			
CHECKED - SJF	4			

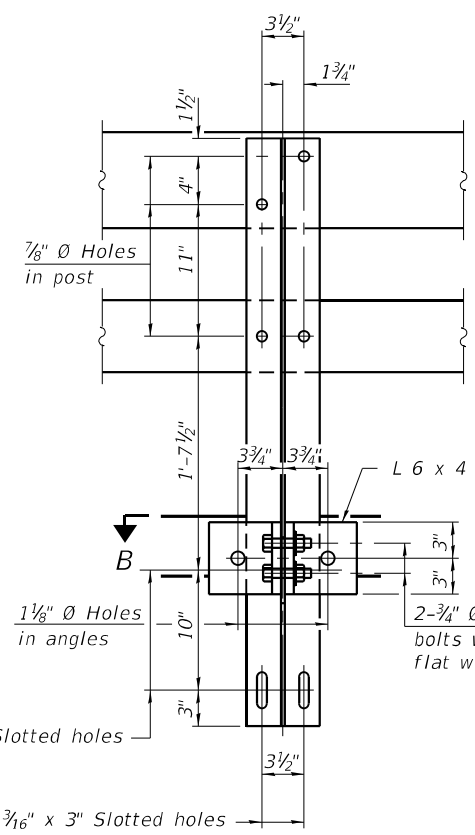
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 072-0008**

SHEET 12 OF 22 SHEETS

F.A.P. RTE. 317	SECTION (45RB)BR	COUNTY PEORIA	TOTAL SHEETS 86	SHEET NO. 55
			CONTRACT NO. 68E48	
ILLINOIS FED. AID PROJECT				

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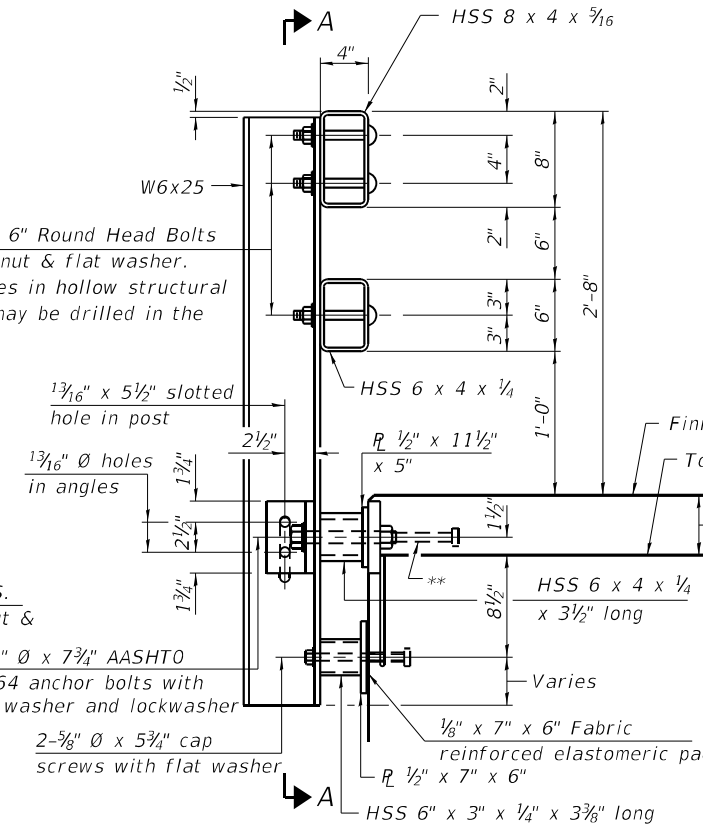


SECTION A-A

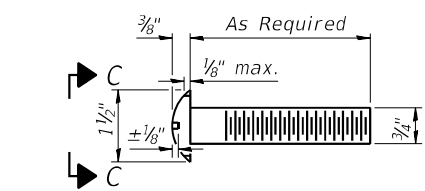
4-3/4" \varnothing x 6" Round Head Bolts with locknut & flat washer.
 7/8" \varnothing holes in hollow structural section may be drilled in the field.

1 1/2" \varnothing Holes in angles
 2-3/4" \varnothing x 3 1/4" H.S. bolts with hex nut & flat washers
 2- 1" \varnothing x 7 3/4" AASHTO M-164 anchor bolts with flat washer and lockwasher
 2- 5/8" \varnothing x 5 1/2" cap screws with flat washer

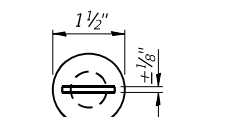
1 3/16" x 3" Slotted holes
 1 3/16" x 5 1/2" slotted hole in post
 1 3/16" \varnothing holes in angles



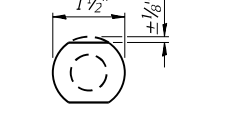
SECTION AT RAIL POST



DETAIL OF 3/4" \varnothing ROUND HEAD BOLT

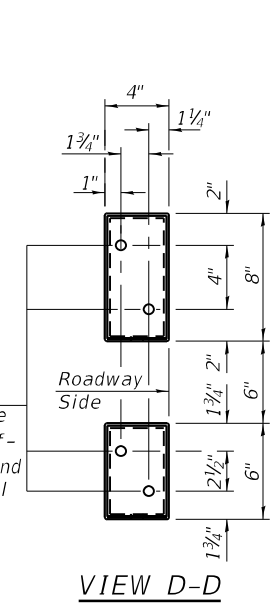


With Slot (shown) or Approved Recess

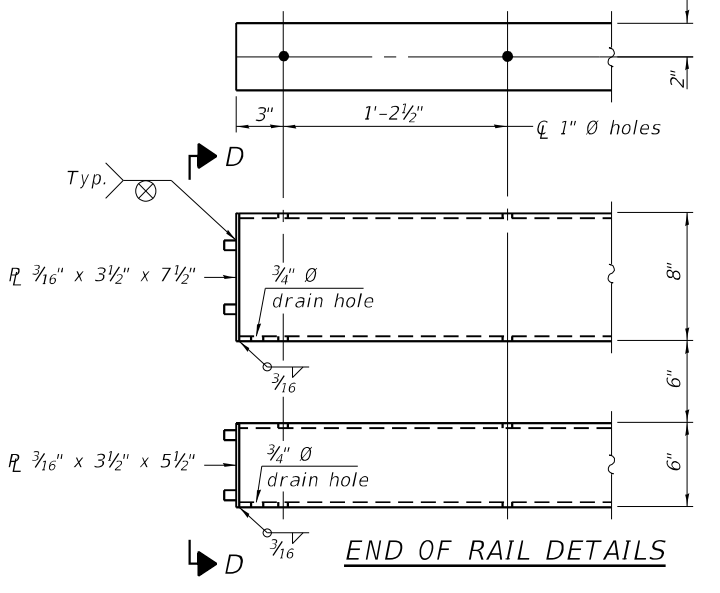


Without Slot or Recess

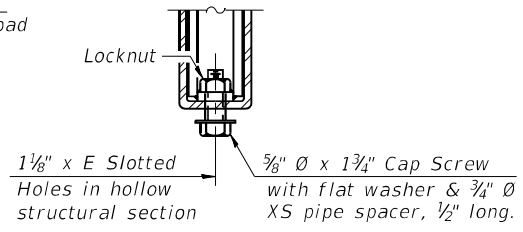
VIEW C-C



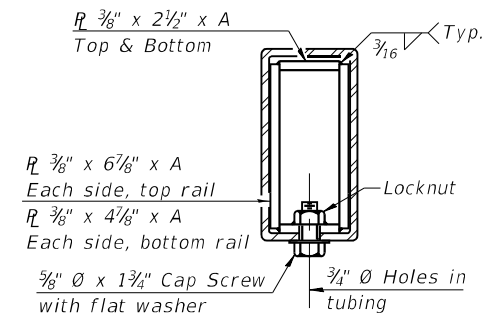
VIEW D-D



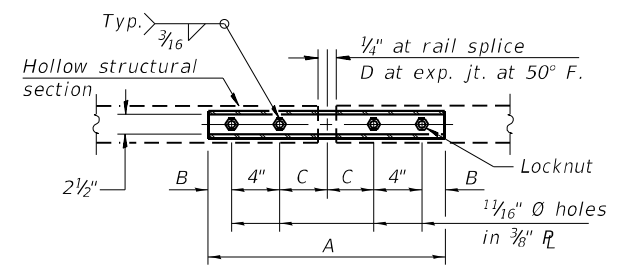
END OF RAIL DETAILS



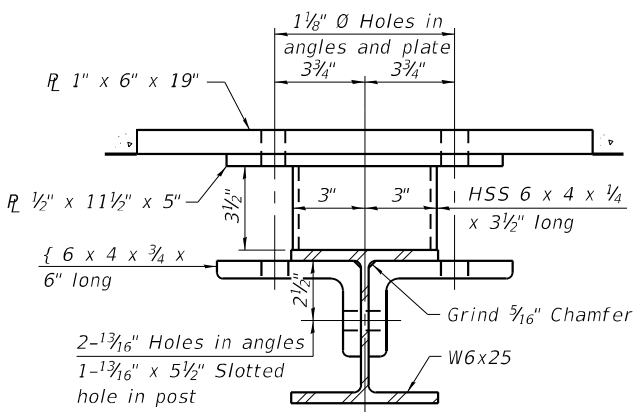
RAIL SPLICE CONNECTION AT EXPANSION JT.



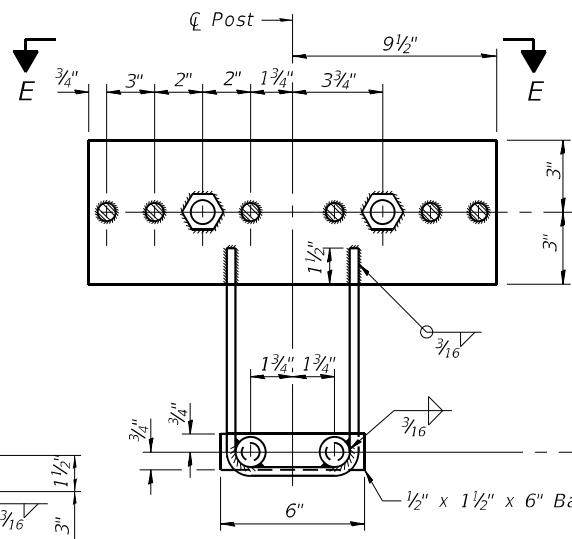
SECTION AT RAIL SPLICE



PLAN-BOTT. SPLICE R TYPICAL

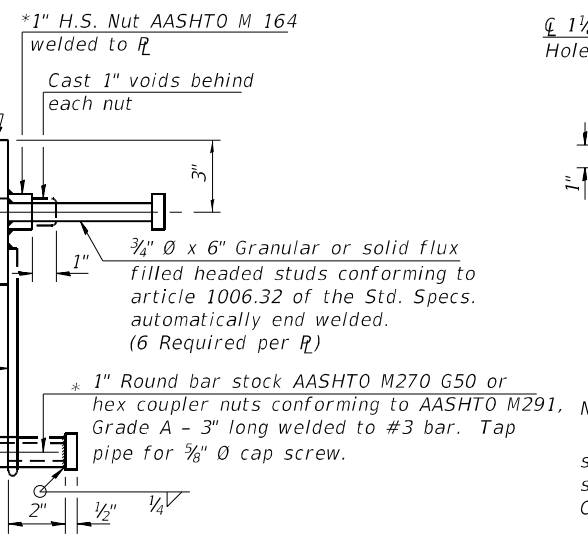


SECTION B-B



ANCHOR DEVICE

*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.



SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

Notes:
 For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans.
 Cost included with Steel Railing, Type SM.
 Steel rail elements 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	306

R-34CWS 2-17-2017 (6'-3" Maximum Post Spacing) (5" minimum to 7 1/8" maximum CWS thickness)

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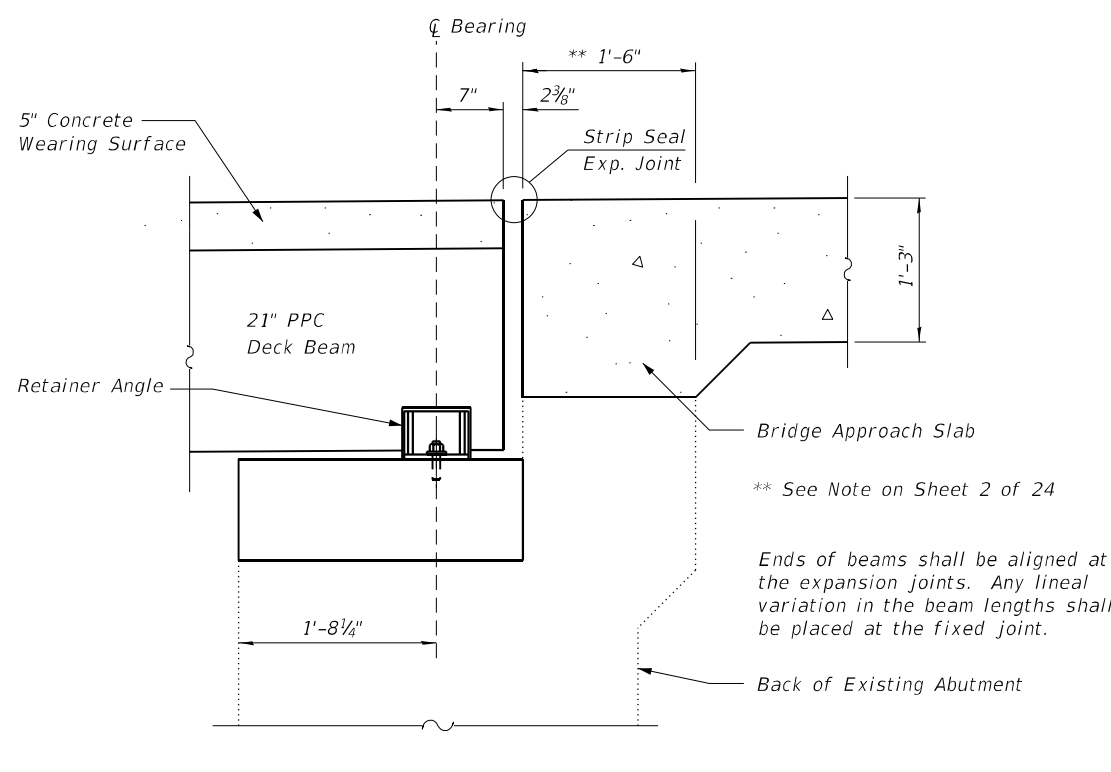
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE SM WITH CONCRETE WEARING SURFACE
STRUCTURE NO. 072-0008

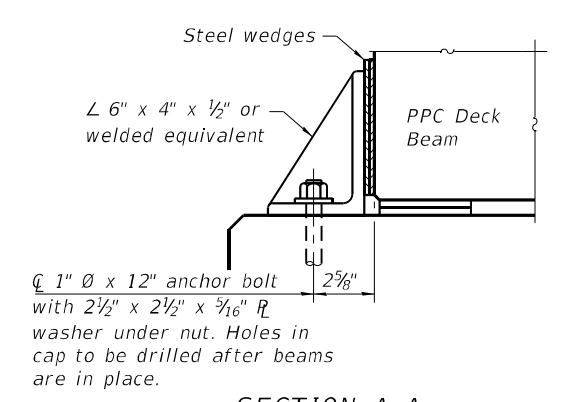
SHEET 13 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 68E48	
ILLINOIS FED. AID PROJECT				

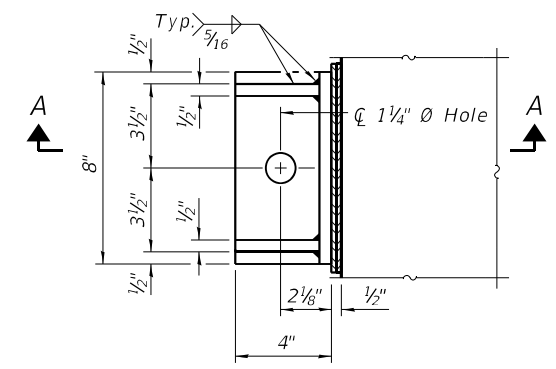
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SECTION THRU ABUTMENT
 (East Abutment shown)
 (West Abutment similar)
 (Dimensions are at Rt. L's)



SECTION A-A



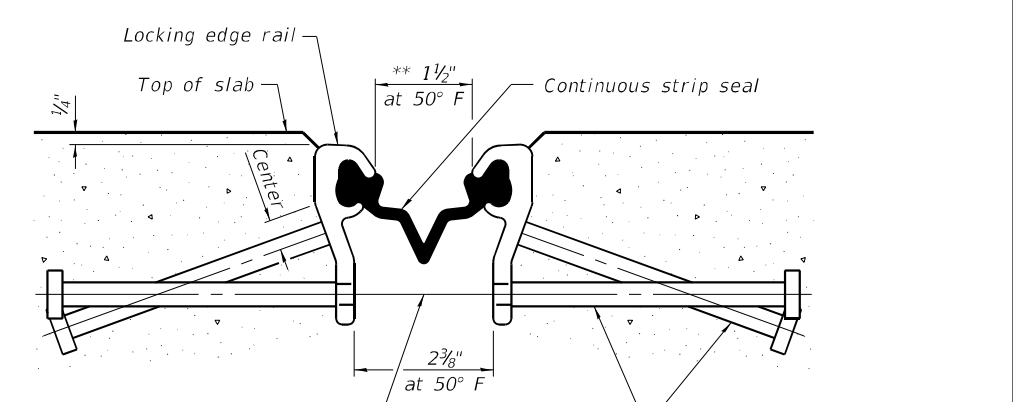
PLAN
RETAINER ANGLE AT EXPANSION JOINT

Notes:
 Cost of retainer and accessories are included with Precast Prestressed Concrete Deck Beams.
 Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.
 The side retainers shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM 385.
 Anchor bolts and plate washers shall be galvanized according to AASHTO M 232.
 After the notch or concrete overlay are poured and cured, the steel wedges shall be removed.

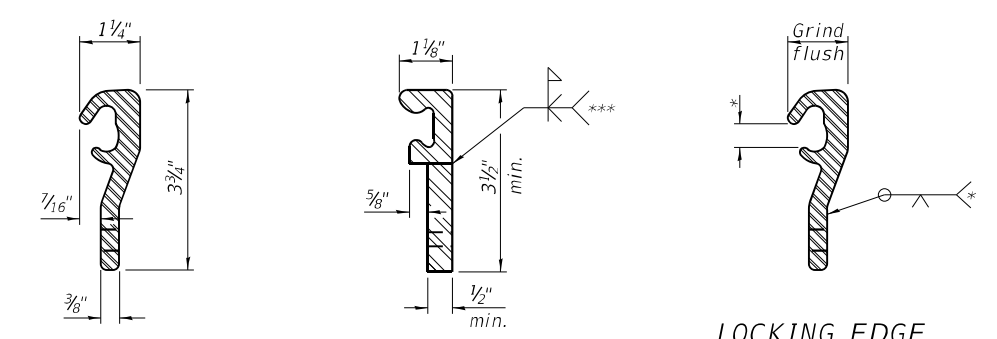
ANCHOR BOLTS FOR RETAINERS

Holes in the masonry for anchor bolts shall be drilled or according to the manufacturer's recommendation after beams or girders have been erected and adjusted.
 Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming.
 The anchor bolts, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for Precast Prestressed Concrete Deck Beams (21" Depth).
 The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.
 The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:
 1. A threaded rod stud with nut and washer of the type specified.
 2. A sealed capsule or a sealed adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Type
Abutments	F 1554 Gr. 105



SECTION THRU STRIP SEAL JOINT FOR OVERLAY OVER DECK BEAMS



LOCKING EDGE RAIL RAIL SPLICE
 Rolled rail shown, welded rail similar.

LOCKING EDGE RAIL

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.
 The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.
 The inside of the Locking Edge Rail groove shall be free of weld residue. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.
 The manufacturer's recommended installation methods shall be followed.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
 Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	86

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 Mankato, IL 61438
 Phone: 217.255.5177
 email: upchurchgroup@upchurchgroup.com

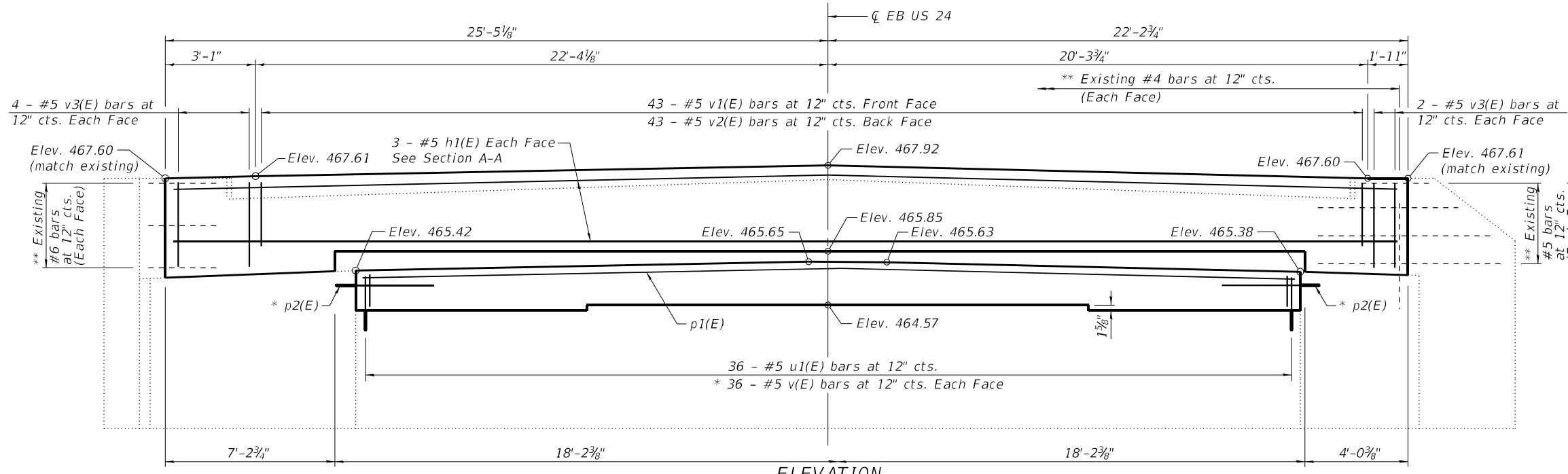
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	CHECKED - SJF	REVISION	
PLOT SCALE	DRAWN - SAE	REVISION	
PLOT DATE	CHECKED - SJF	REVISION	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL AND RETAINERS
STRUCTURE NO. 072-008

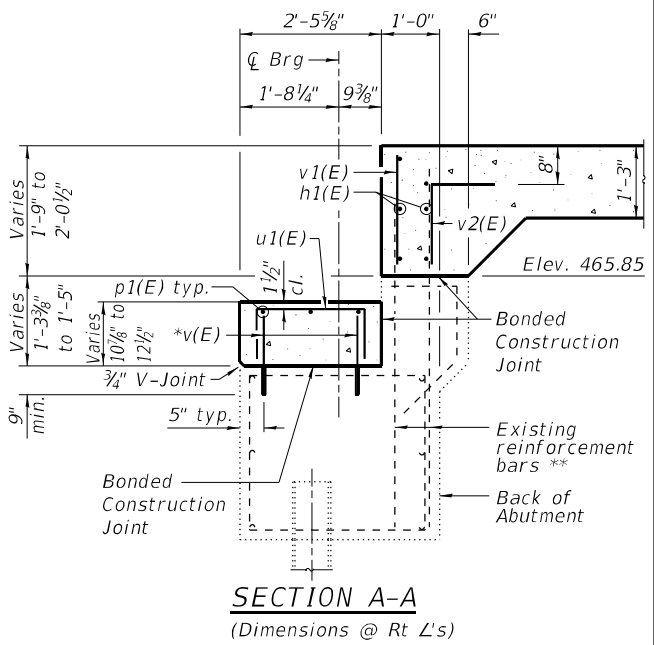
SHEET 14 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45RB)BR	PEORIA	86	57
			CONTRACT NO. 68E48	
		ILLINOIS	FED. AID PROJECT	

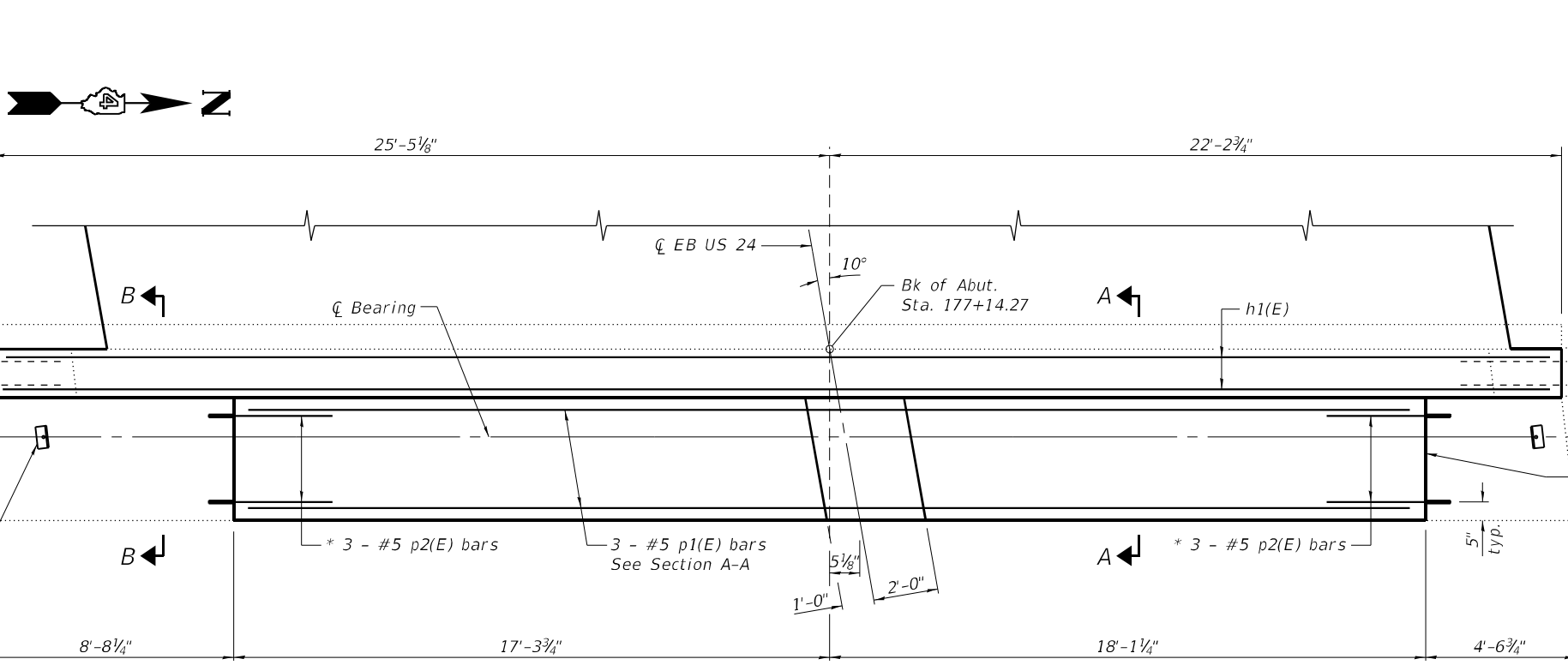


ELEVATION
(Looking West)

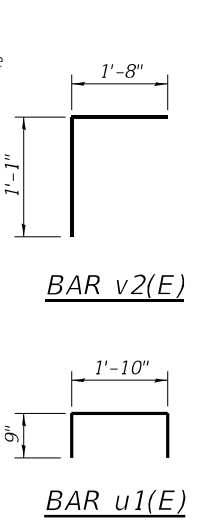
** Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.



SECTION A-A
(Dimensions @ Rt L's)

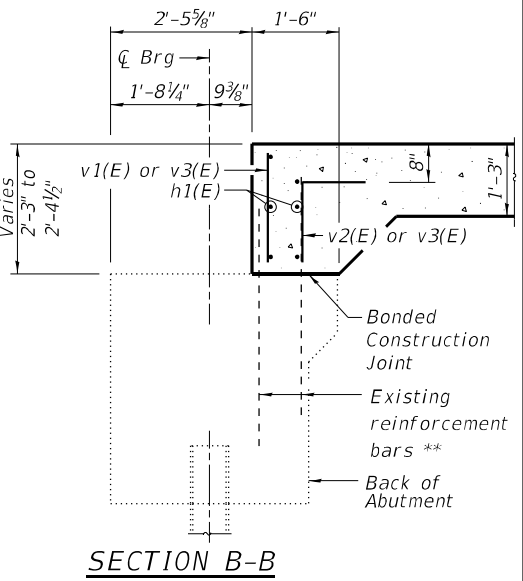


PLAN



BAR v2(E)

BAR u1(E)



SECTION B-B

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	6	#5	47'-4"	—
p1(E)	3	#5	35'-0"	—
p2(E)	6	#5	4'-0"	—
u1(E)	36	#5	3'-4"	⌊
v(E)	72	#5	1'-6"	—
v1(E)	43	#5	1'-6"	—
v2(E)	43	#5	2'-9"	⌊
v3(E)	12	#5	2'-0"	—
Concrete Structures			Cu. Yd.	3.3
Reinforcement Bars, Epoxy Coated			Pound	885

Notes:
Prior to ordering any material, the Contractor shall verify in the field all existing abutment dimensions and elevations.

MODEL: Default
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4/12/2021 11:12:17 AM

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architects engineers surveyors
Professional Design Firm Corporation
123 North 15th Street
Moline, IL 61438
Phone: 317.235.3177
License No. 184603601
e-mail: upchurchgroup@upchurchgroup.com

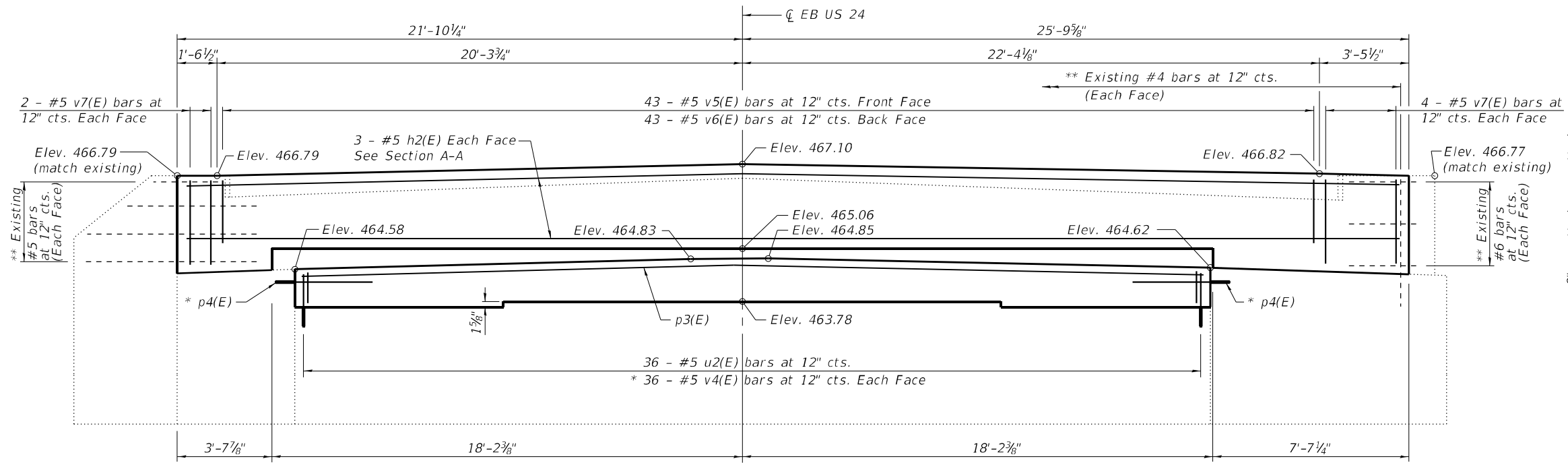
USER NAME	DESIGNED - MIS	REVISIONS
PLOT SCALE	CHECKED - SJF	REVISIONS
PLOT DATE	DRAWN - SAE	REVISIONS
	CHECKED - SJF	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
STRUCTURE NO. 072-0008

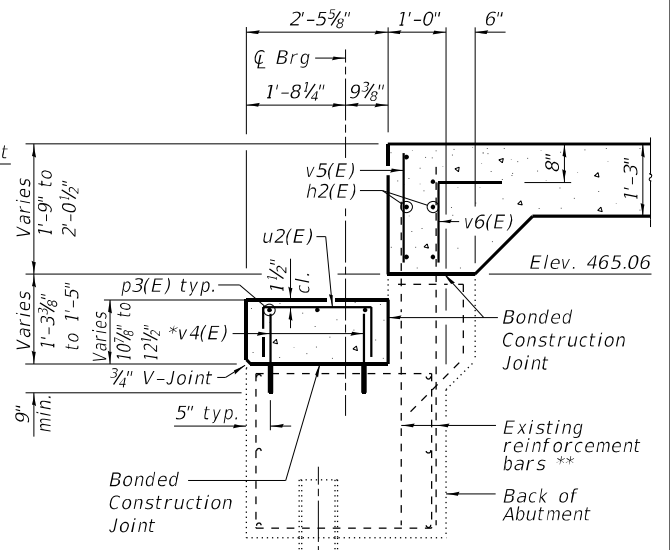
SHEET 17 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68E48				
ILLINOIS FED. AID PROJECT				

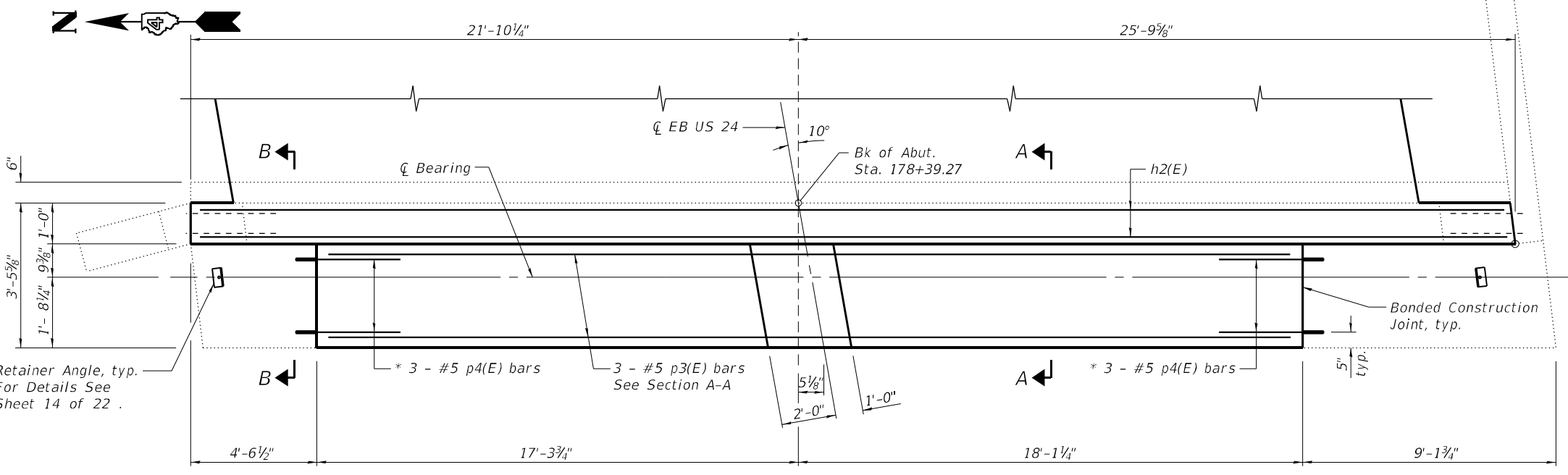


ELEVATION
(Looking East)

** Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.

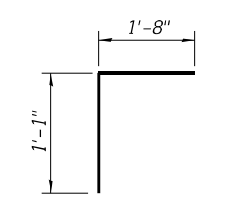


SECTION A-A
(Dimensions @ Rt L's)

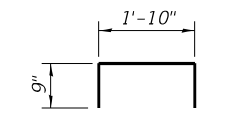


PLAN

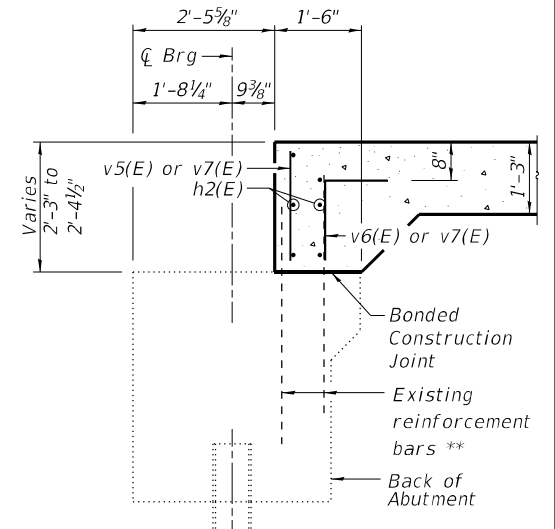
* Epoxy grout p4(E) and v4(E) bars in 9" (min.) drilled holes according to Section 584 of the Standard Specifications. Space to miss existing reinforcement. Cost included with Concrete Structures.



BAR v6(E)



BAR u2(E)



SECTION B-B

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h2(E)	6	#5	47'-4"	—
p3(E)	3	#5	35'-0"	—
p4(E)	6	#5	4'-0"	—
u2(E)	36	#5	3'-4"	┌
v4(E)	72	#5	1'-6"	—
v5(E)	43	#5	1'-6"	—
v6(E)	43	#5	2'-9"	┌
v7(E)	12	#5	2'-0"	—
Concrete Structures		Cu. Yd.	3.2	
Reinforcement Bars, Epoxy Coated		Pound	885	

Notes:
Prior to ordering any material, the Contractor shall verify in the field all existing abutment dimensions and elevations.

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Moline, IL 61938
Phone: 317.255.5177
License No. 184003601
email: upchurchgroup@upchurchgroup.com

USER NAME	DESIGNED - MIS	REVISIONS
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PLOT DATE	DRAWN - SAE	REVISIONS
	CHECKED - SJF	REVISIONS

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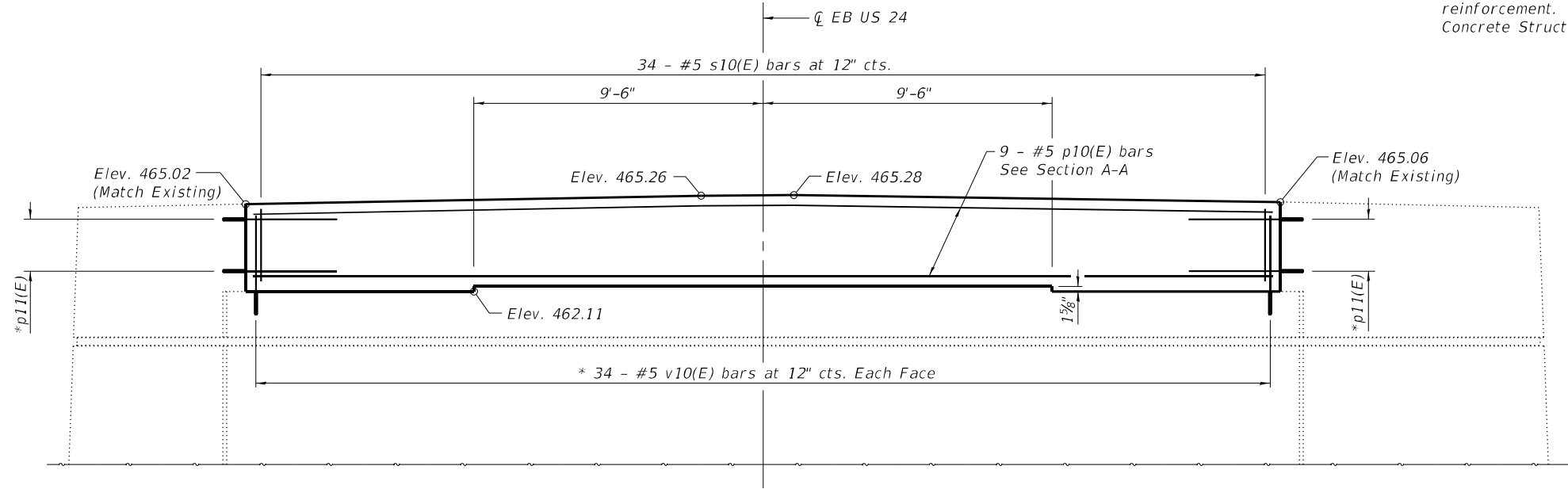
EAST ABUTMENT
STRUCTURE NO. 072-008

SHEET 18 OF 22 SHEETS

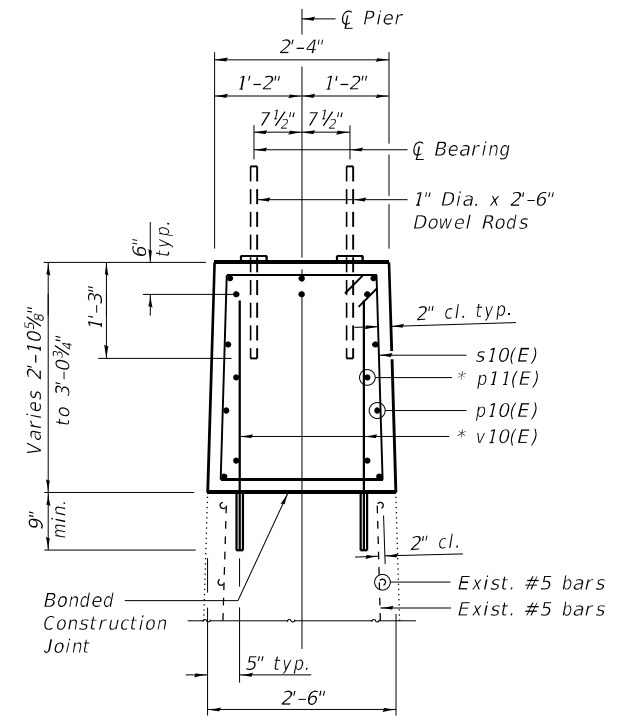
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45R)BR	PEORIA	86	61
CONTRACT NO. 68E48				
ILLINOIS FED. AID PROJECT				



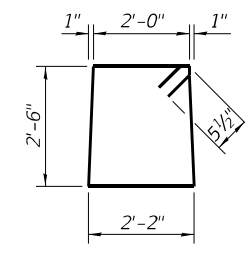
* Epoxy grout p11(E) and v10(E) bars in 9" (min.) drilled holes according to Section 584 of the Standard Specifications. Cost included with Concrete Structures.



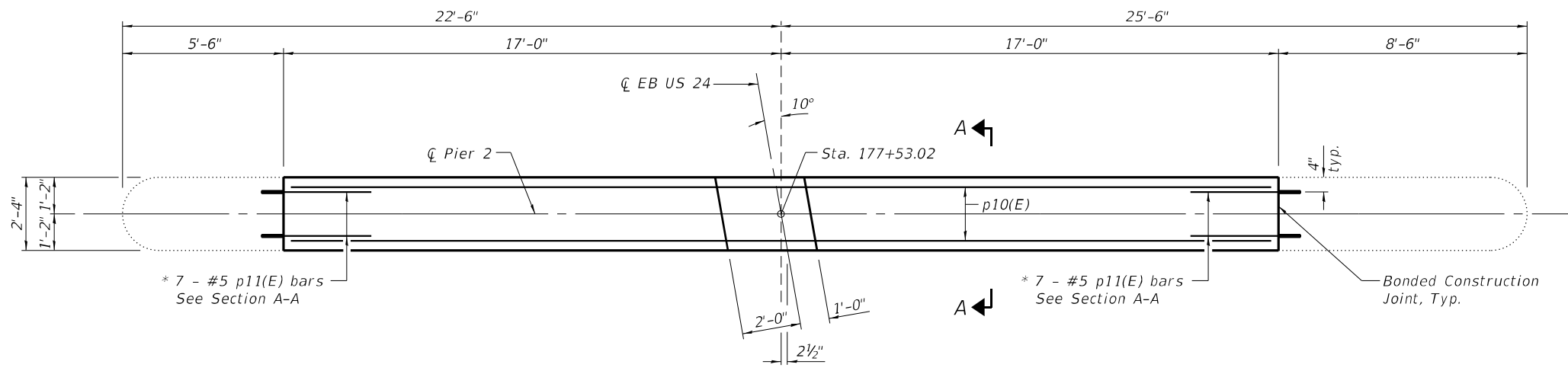
ELEVATION
(Looking East)



SECTION A-A



BAR s10(E)



TOP PLAN

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
p10(E)	9	#5	33'-9"	—
p11(E)	14	#5	3'-9"	—
s10(E)	34	#5	10'-1"	□
v10(E)	68	#5	3'-3"	—
Concrete Structures		Cu. Yd.	9.1	
Reinforcement Bars, Epoxy Coated		Pound	960	

Notes:
Space reinforcement to miss proposed Dowel Rods.
Prior to ordering any material, the Contractor shall verify in the field all existing pier dimensions and elevations.

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Mankato, IL 61438
Phone: 217.235.3177
License No. 184-003401
e-mail: upchurchgroup@upchurchgroup.com

USER NAME	DESIGNED - MIS	REVISIONS
CHECKED - SJF	CHECKED - SJF	REVISIONS
PLOT SCALE	DRAWN - SAE	REVISIONS
PLOT DATE	CHECKED - SJF	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2
STRUCTURE NO. 072-0008

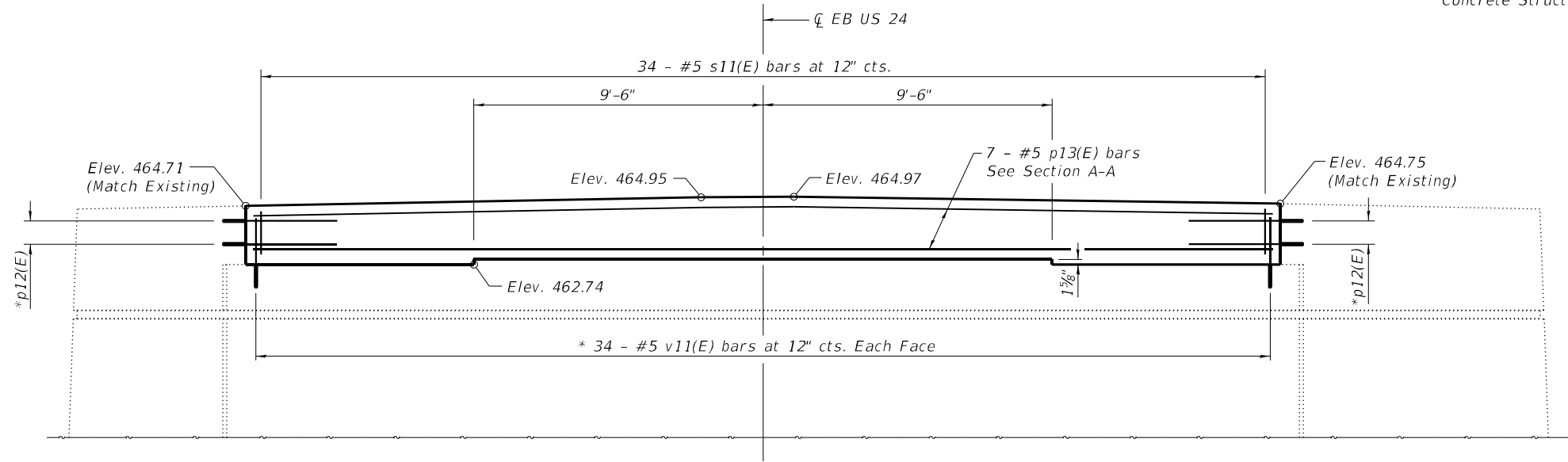
SHEET 19 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45R)BR	PEORIA	86	62
CONTRACT NO. 68E48				

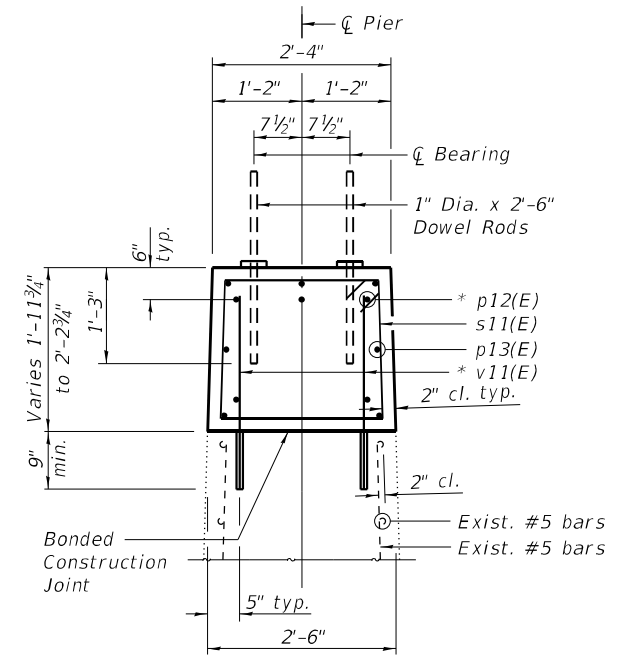
ILLINOIS FED. AID PROJECT



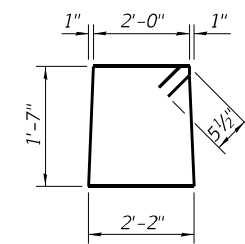
* Epoxy grout p12(E) and v11(E) bars in 9" (min.) drilled holes according to Section 584 of the Standard Specifications. Space to miss existing reinforcement. Cost included with Concrete Structures.



ELEVATION
(Looking East)



SECTION A-A

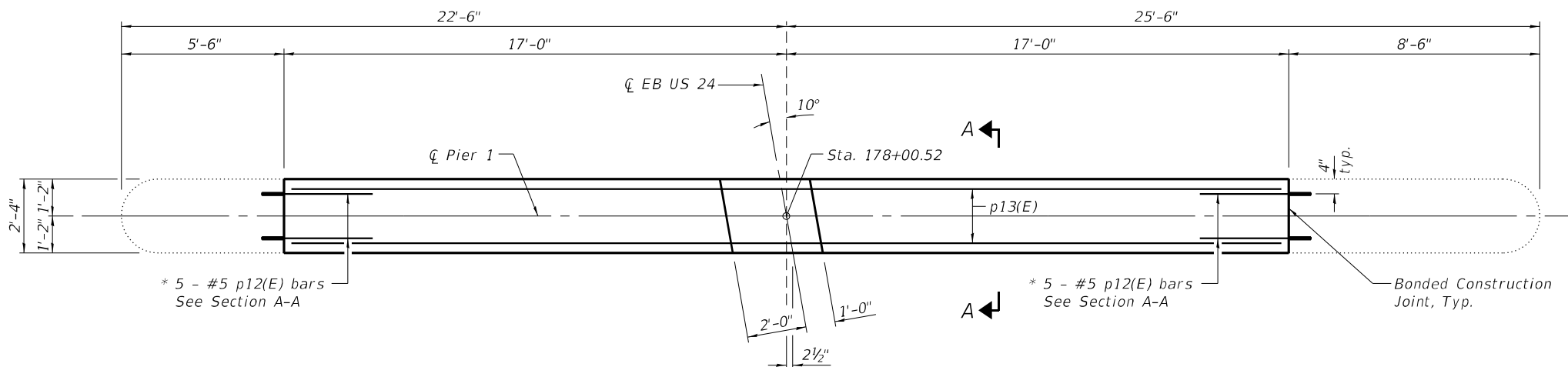


BAR s11(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
p12(E)	10	#5	3'-9"	—
p13(E)	7	#5	33'-9"	—
s11(E)	34	#5	8'-3"	□
v11(E)	68	#5	2'-6"	—
Concrete Structures			Cu. Yd.	6.2
Reinforcement Bars, Epoxy Coated			Pound	755

Notes:
Space reinforcement to miss proposed Dowel Rods.
Prior to ordering any material, the Contractor shall verify in the field all existing pier dimensions and elevations.



TOP PLAN

MODEL: Default; FILE NAME: P:\Civil\DOT_DIST\PTB_194-035 var PH ILL 31200321\WO 4 Little LaMarsh Bridge Design 3120032-04\CAD_Sheets\0720008-68E48-020-Pier 1.dgn

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Professional Design Firm Corporation
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Mankato, IL 61438
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License No. 184-003611
email: upchurchgroup@upchurchgroup.com

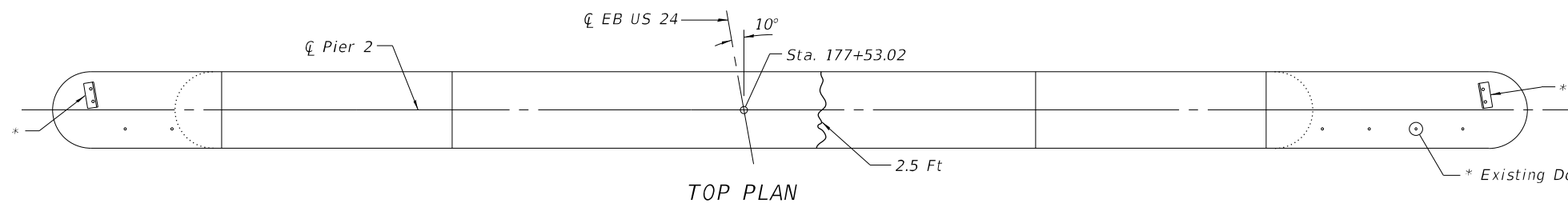
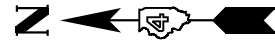
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CHECKED - SJF	CHECKED - SJF	REVISIONS
PLOT SCALE	DRAWN - SAE	REVISIONS
PLOT DATE	CHECKED - SJF	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1
STRUCTURE NO. 072-0008

SHEET 20 OF 22 SHEETS

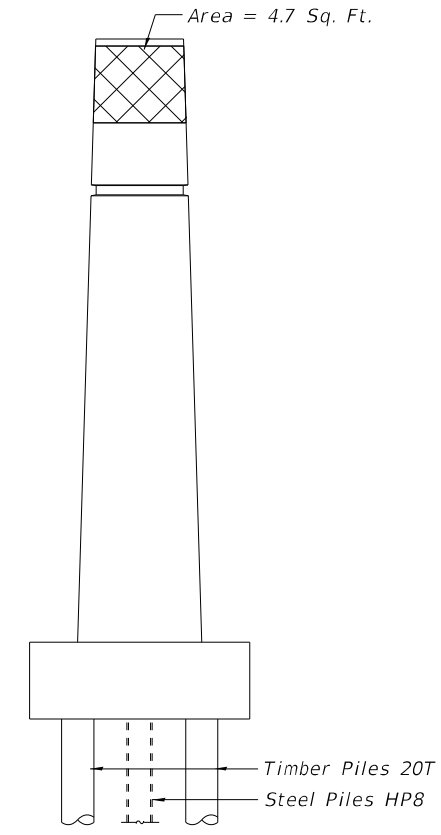
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45RB)BR	PEORIA	86	63
			CONTRACT NO. 68E48	
ILLINOIS FED. AID PROJECT				



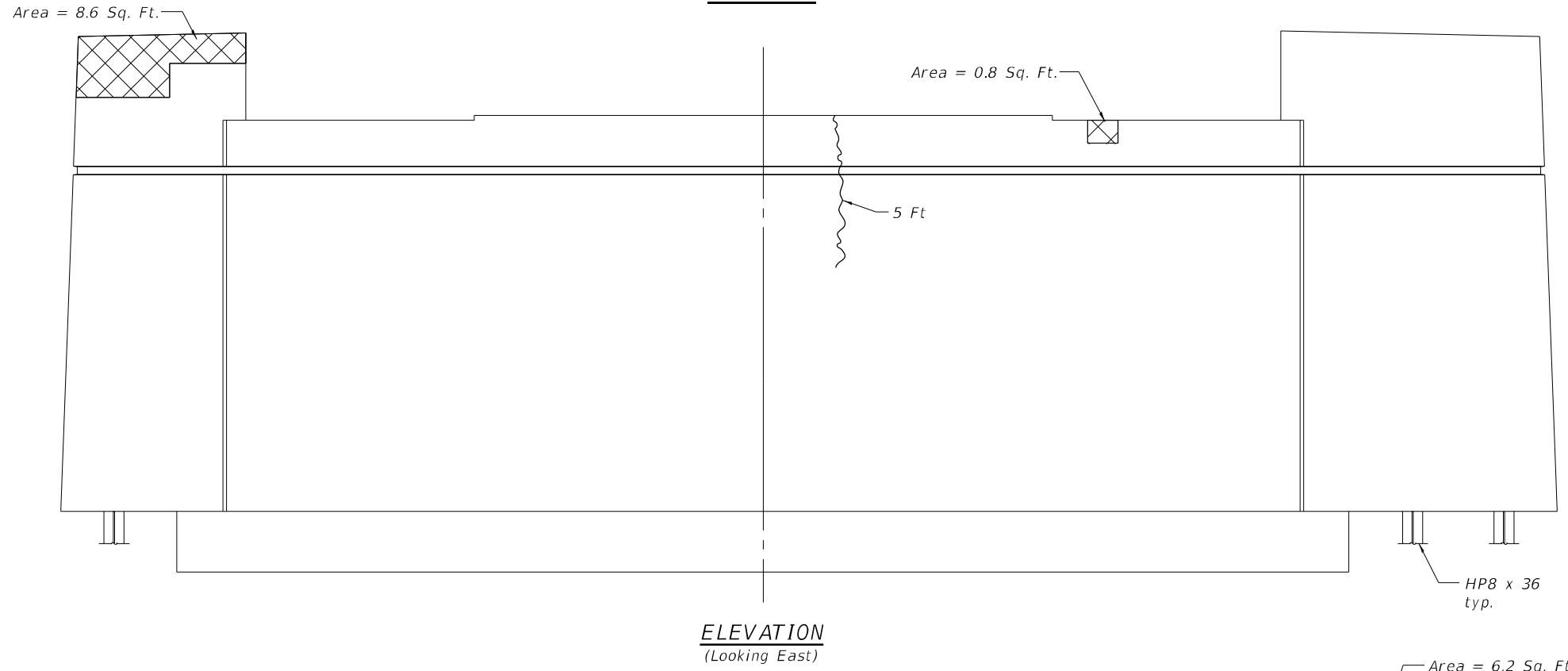
* Remove Existing 4" x 4" x 1/2" Retainer Angles. Cut or Burn 4 - 1" Dia. Anchor Bolts and 6 - 3/4" Dia. Dowel Bars flush with existing concrete surface. Grind existing bolts and dowel bars smooth and seal with epoxy. Cost included with Removal of Existing Superstructure.

* Existing Dowel Bar typ.

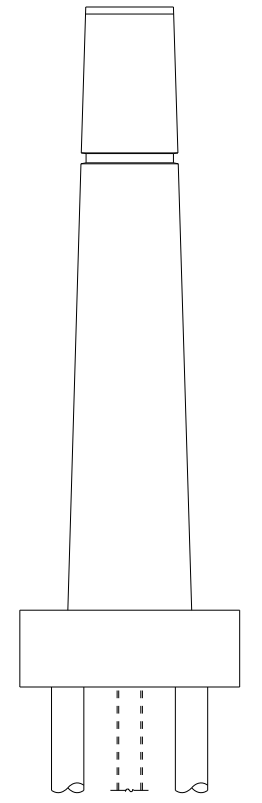
TOP PLAN



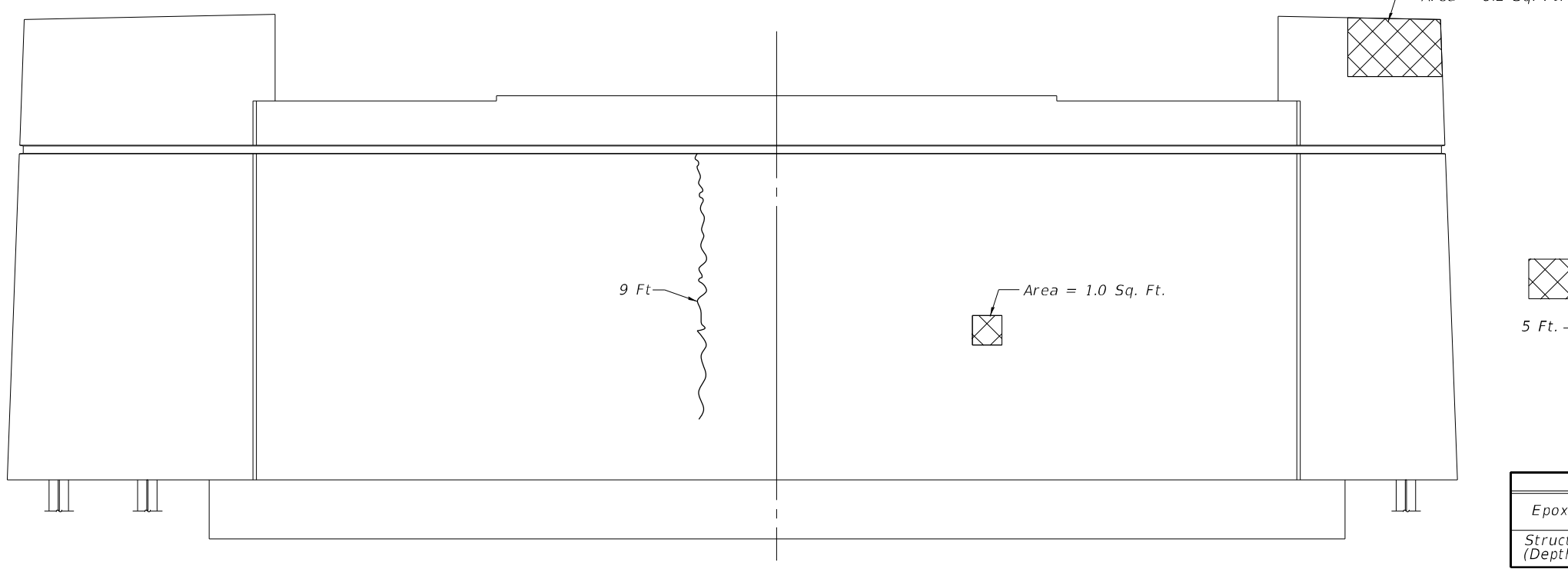
NORTH END VIEW



ELEVATION
(Looking East)



SOUTH END VIEW



ELEVATION
(Looking West)

LEGEND

	Structural Repair of Concrete (depth equal to or less than 5 inches)
	Epoxy Crack Injection (Crack widths shown as approx. 1/16" to 1/8" in width)

BILL OF MATERIAL

Item	Unit	Quantity
Epoxy Crack Injection	Foot	16.5
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	21.3

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4/12/2021 11:15:24 AM

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Mankato, IL 61438
Phone: 217.255.3177
email: upchurchgroup@upchurchgroup.com

USER NAME	-	DESIGNED	- MIS	REVISED	-
CHECKED	- SJF	CHECKED	- SJF	REVISED	-
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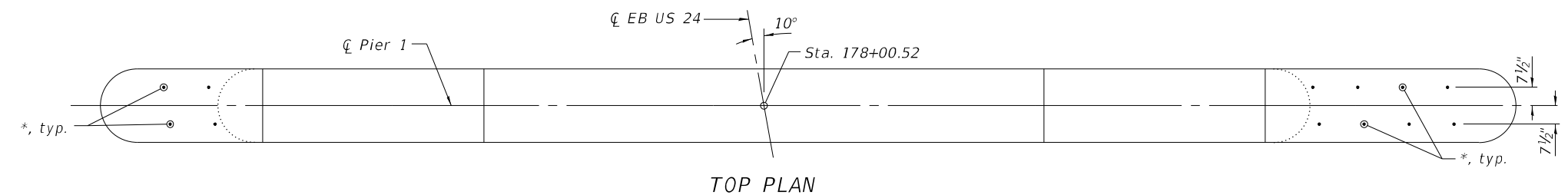
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2 CONCRETE REPAIRS
STRUCTURE NO. 072-0008

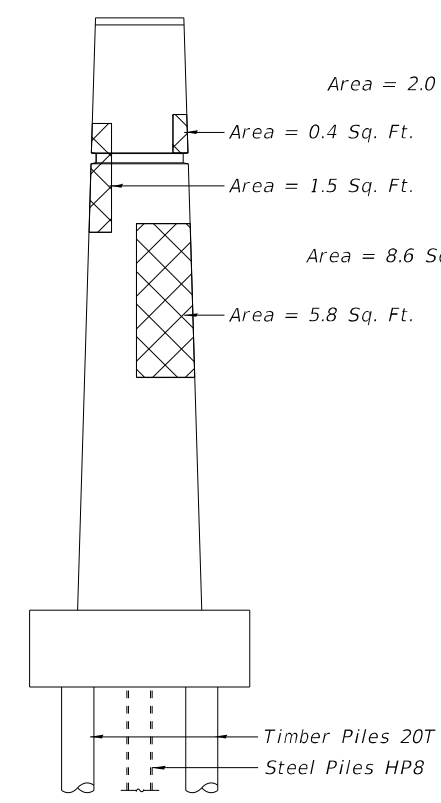
SHEET 21 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45RB)BR	PEORIA	86	64
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68E48	

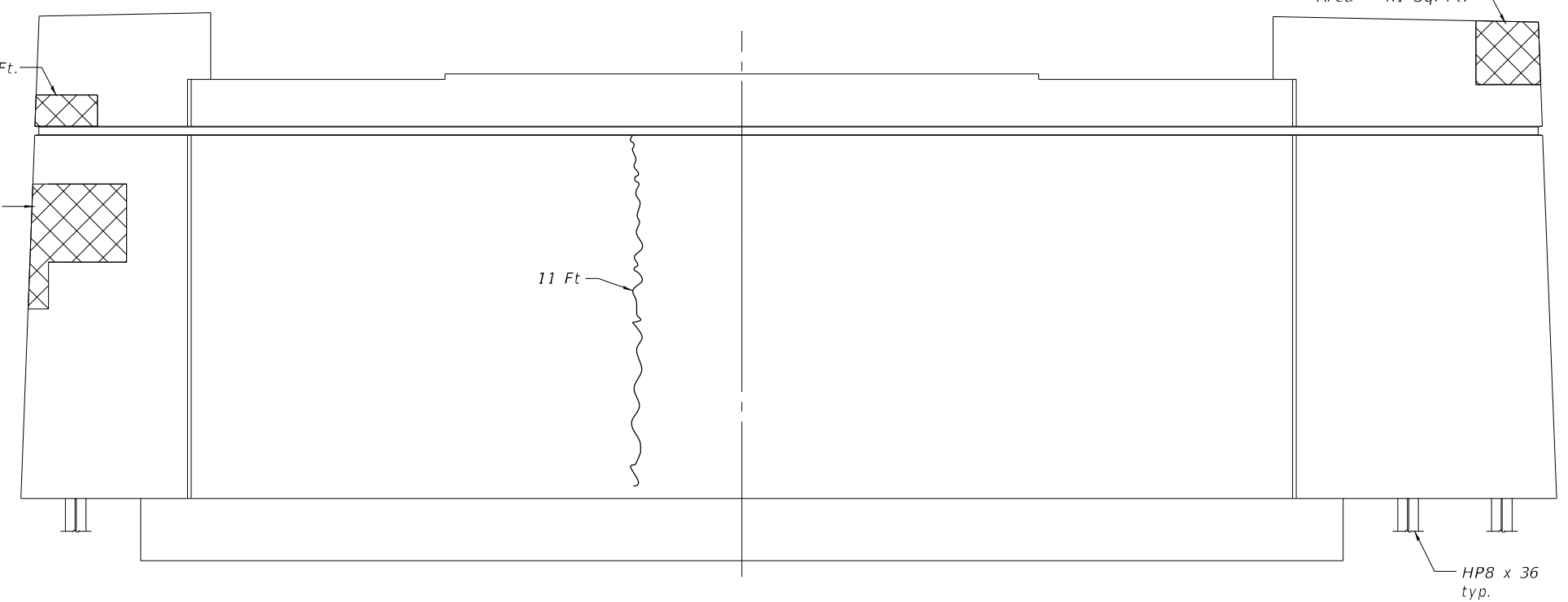
* Cut or Burn Existing 12 - 3/4" Dia. Dowel Rods flush with existing concrete surface. Grind existing dowel rods smooth and seal with epoxy. Cost included with Removal of Existing Superstructure.



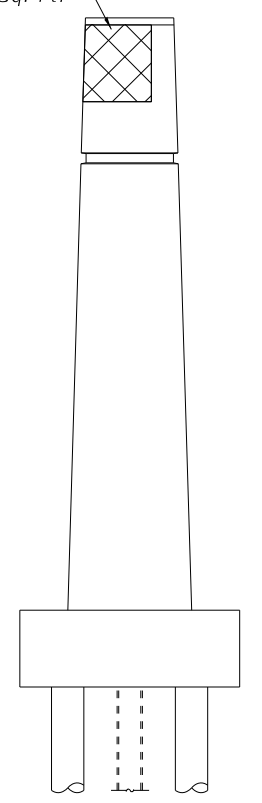
TOP PLAN



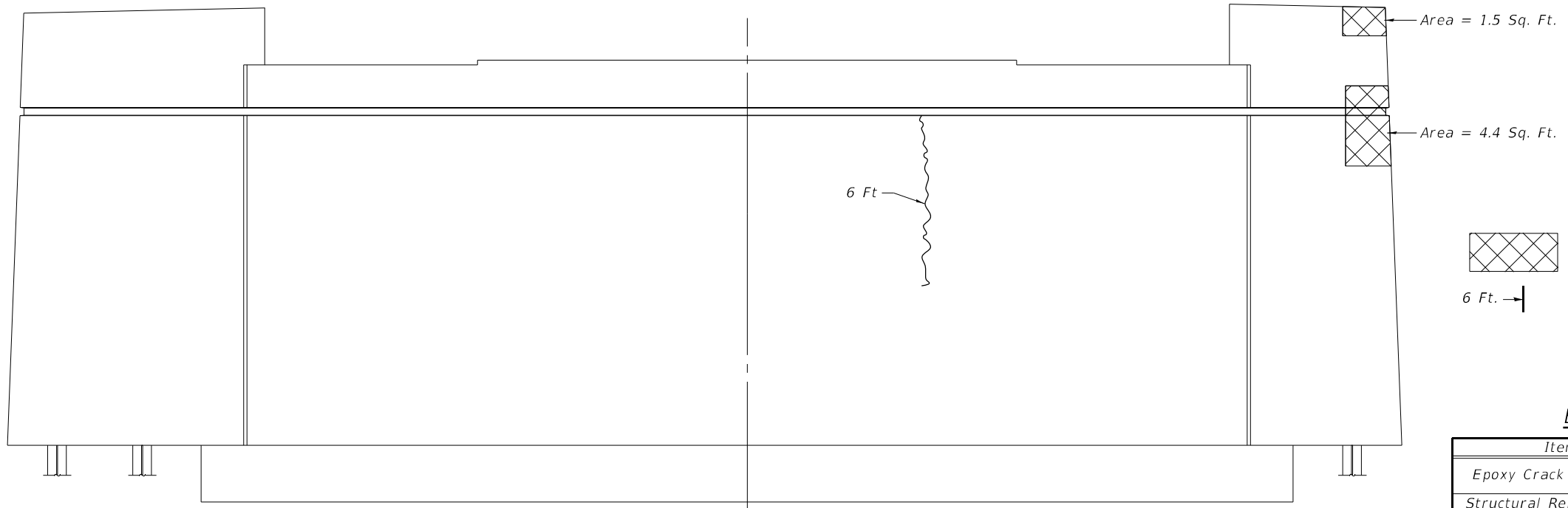
NORTH END VIEW



**ELEVATION
(Looking East)**



SOUTH END VIEW



**ELEVATION
(Looking West)**

LEGEND

Structural Repair of Concrete (depth equal to or less than 5 inches)

6 Ft. → Epoxy Crack Injection (Crack widths shown as approx. 1/16" to 1/8" in width)

BILL OF MATERIAL

Item	Unit	Quantity
Epoxy Crack Injection	Foot	17
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	31.8

MODEL: Default; FILE NAME: P:\Civil\DOT_DIST\PTB_194-035 var. PH ILL 3120032\WO 4 Little LaMarsh Bridge Design 3120032-04\CAD_Sheets\0720008-68E48-022-Pier_1 Conc Repairs.dgn

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 Madison, IL 61738
 Phone: 217.255.5177
 Fax: 217.255.5177
 Email: upchurchgroup@upchurchgroup.com

USER NAME	DESIGNED - MIS	REVISED -
	CHECKED - SJF	REVISED -
PLOT SCALE	DRAWN - SAE	REVISED -
PLOT DATE	CHECKED - SJF	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

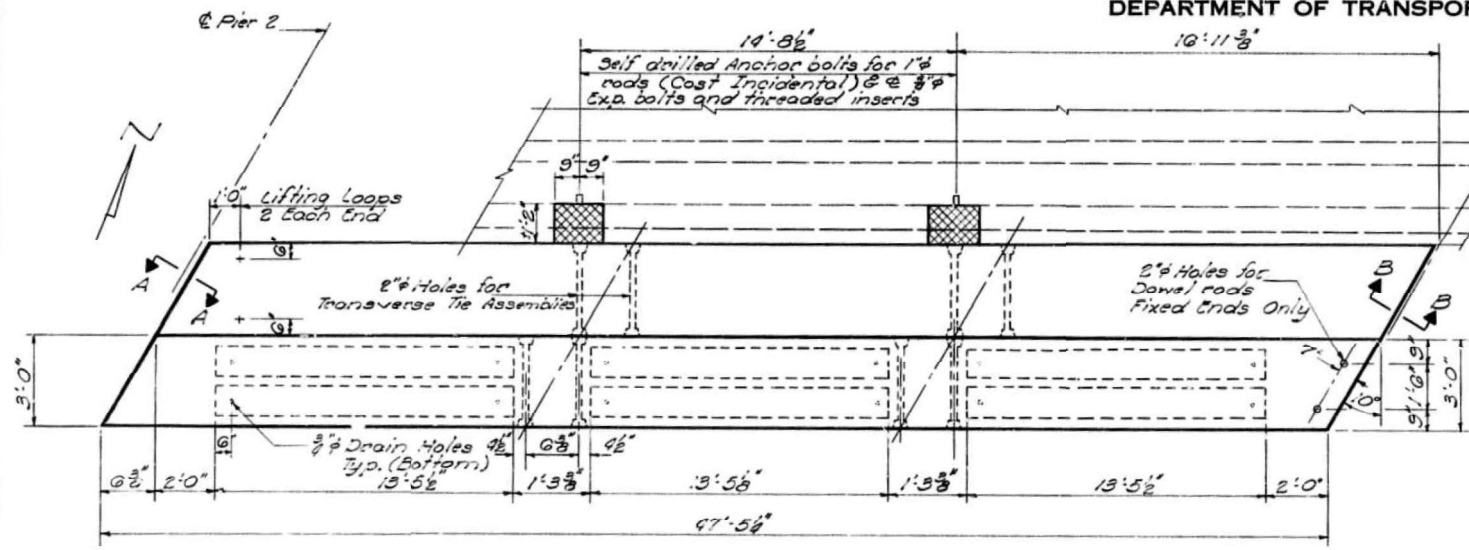
**PIER 1 CONCRETE REPAIRS
STRUCTURE NO. 072-0008**

SHEET 22 OF 22 SHEETS

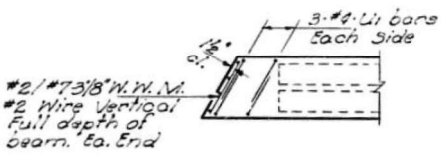
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45RB)BR	PEORIA	86	65
			CONTRACT NO. 68E48	
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

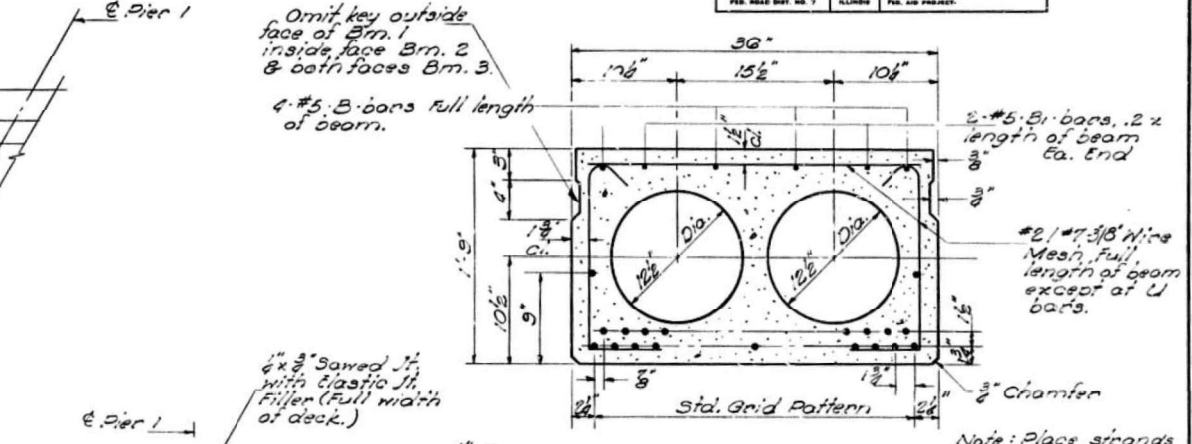
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10	45RB-2	PEORIA	21	17
SHEET NO. 3 7 SHEETS				



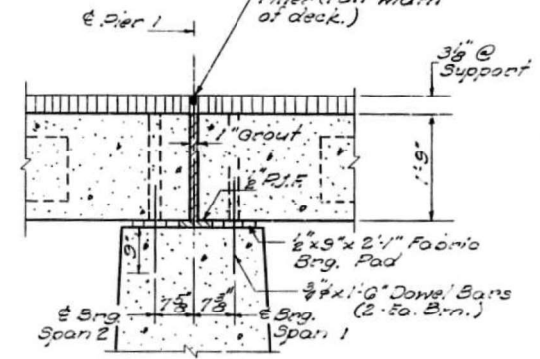
PARTIAL PLAN
(South side Span 2)



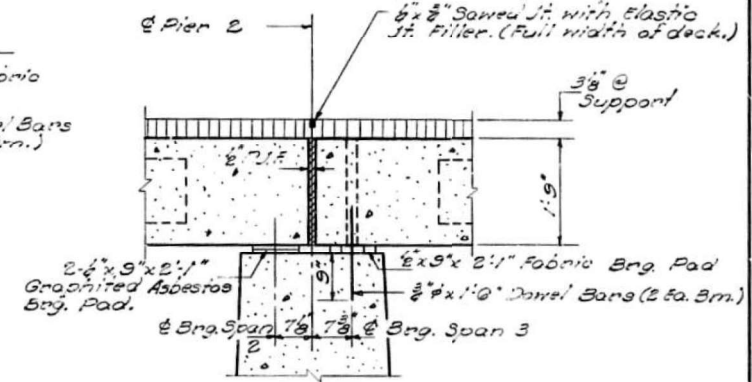
END PLAN



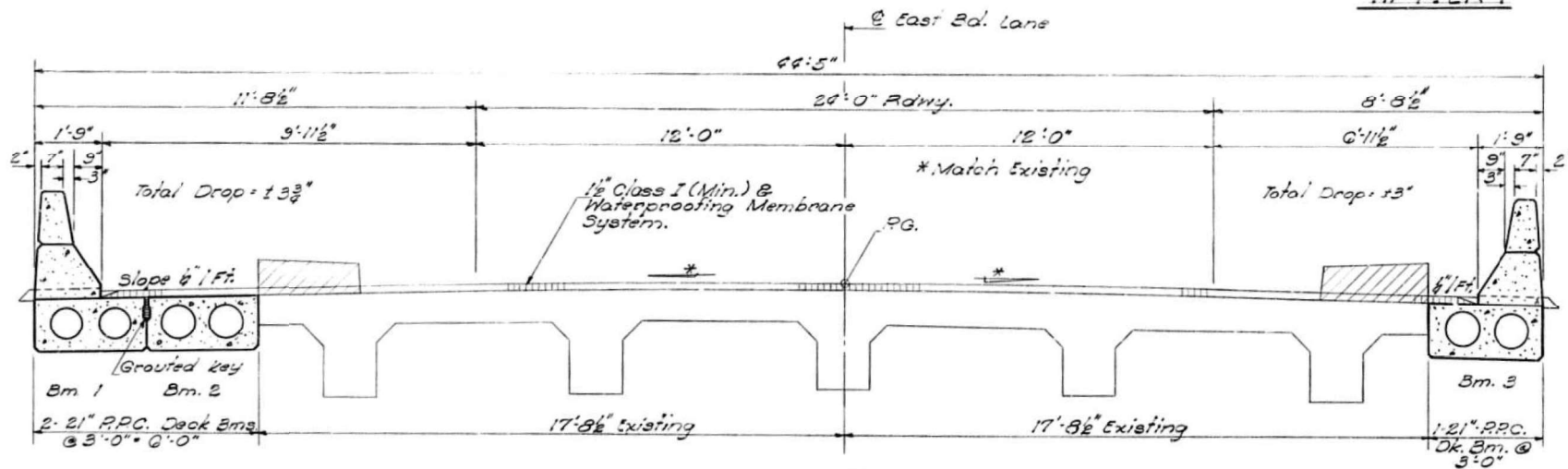
TYPICAL SECTION



**SECTION B-B
AT PIER 1**



**SECTION A-A
AT PIER 2**



CROSS SECTION
(Looking West)

Matched portion of existing bridge to be removed. (Typ.)
Damage to existing slab shall be prevented during removal by the use of saw cuts.

DESIGNED <i>W. Hoag</i>	EXAMINED <i>March 6 1975</i>
CHECKED <i>R. F. Rodney</i>	PASSED
DRAWN <i>J. SCHNEIDER</i>	APPROVED
CHECKED <i>R. F. R.</i>	DIRECTOR OF HIGHWAYS

SUPERSTRUCTURE - SPAN 2
S.B.I. RT. 9 SEC. 45RB-2
PEORIA COUNTY
STA. 496+90.13

FOR INFORMATION ONLY

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PLOT DATE = 3/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OLD STRUCTURE PLANS

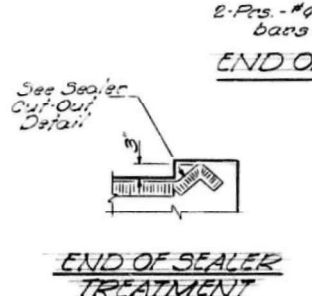
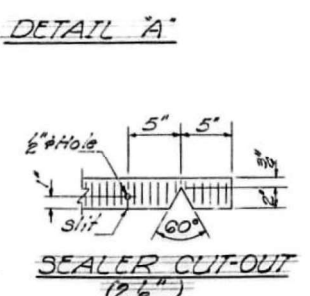
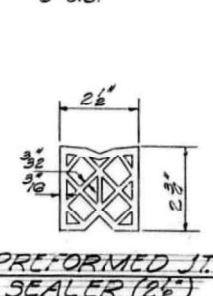
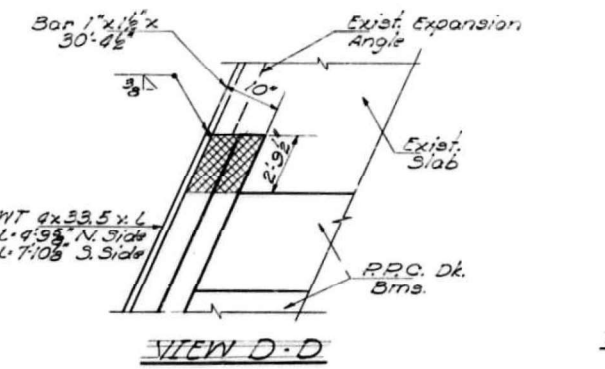
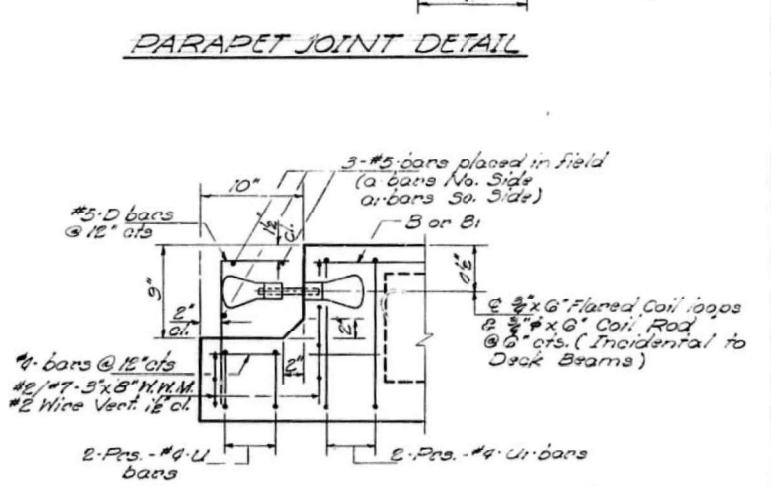
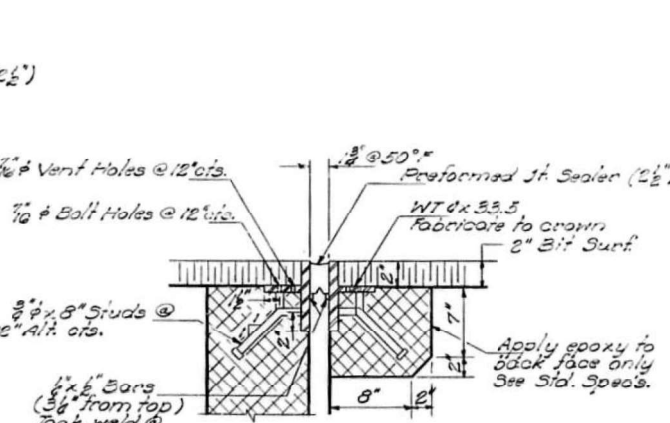
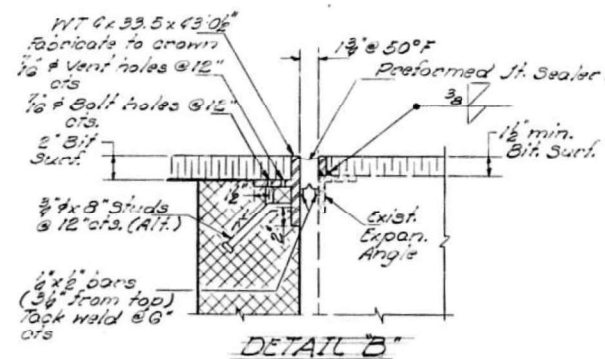
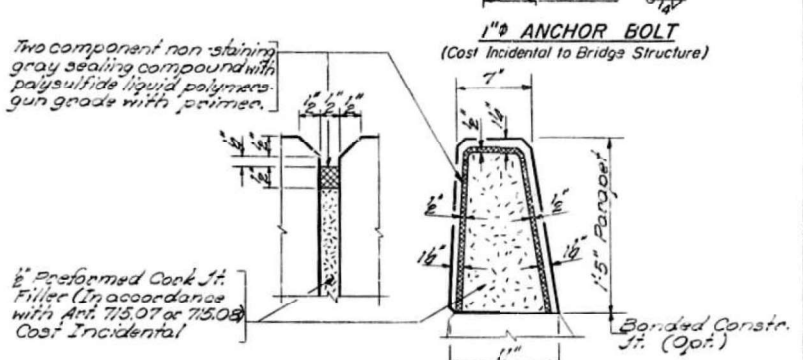
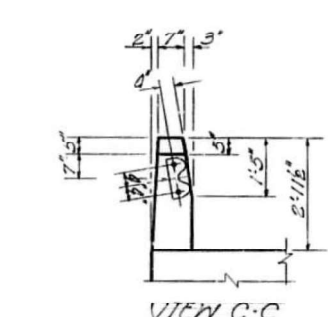
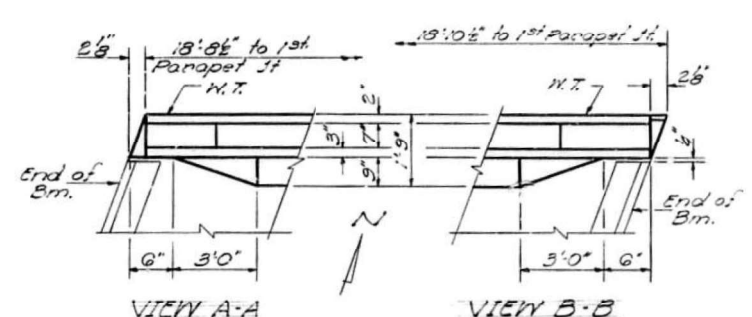
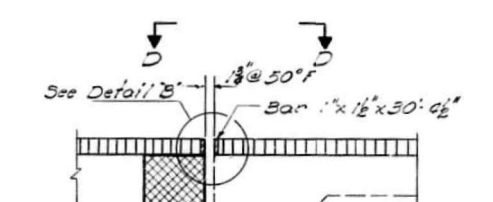
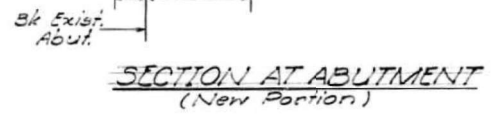
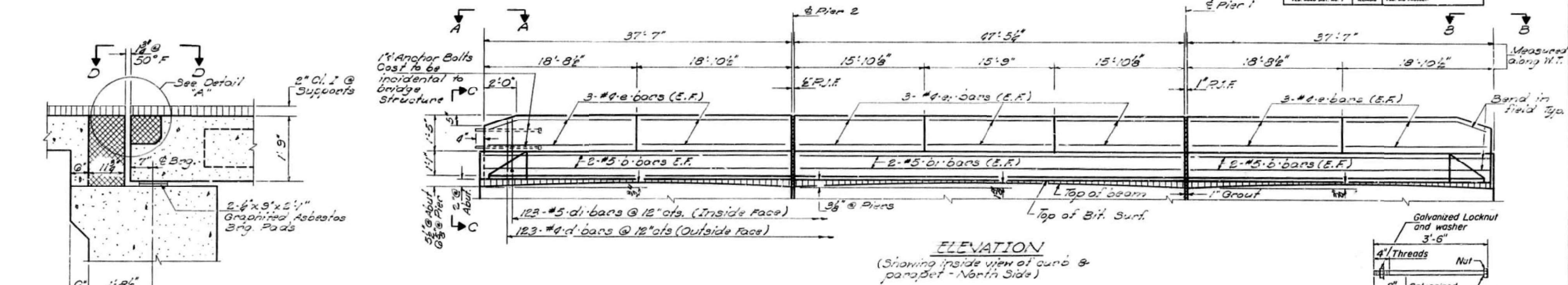
SCALE: SHEET 3 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	68
CONTRACT NO. 68E48				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
10	45RB-2	PEORIA	21	18
FED. ROAD DIST. NO. 7		ILLINOIS	PER. AIR PROJECT	

SHEET NO. 4
7 SHEETS



SUPERSTRUCTURE DETAILS
SBI RT. 9 SEC. 45RB-2
PEORIA COUNTY
STA. 496+94.13

NOTES:
Cross hatched area to be poured after beams are in place.
Cross hatched area of View D-D to be removed to a depth of 19" and replaced with Class X Concrete. Clear existing reinforcement and leave in place.

DESIGNED	W. H. H. H.	EXAMINED	M. G. G.
CHECKED	K. F. K.	PASSED	
DRAWN	J. SCHNELLER	APPROVED	
CHECKED	R. F. K.		

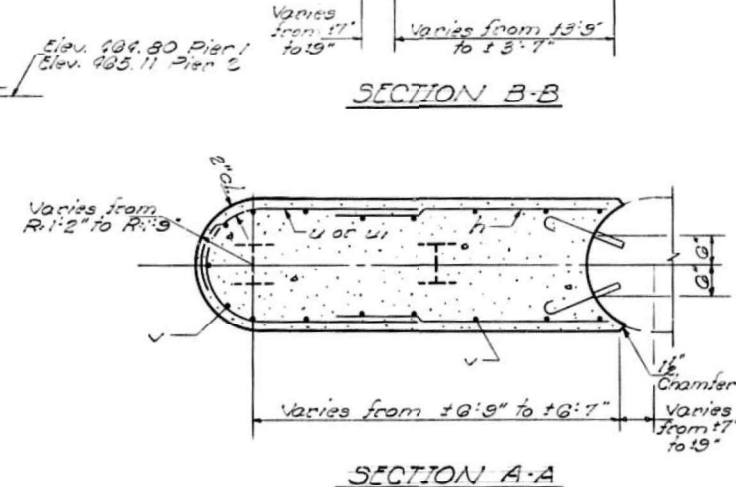
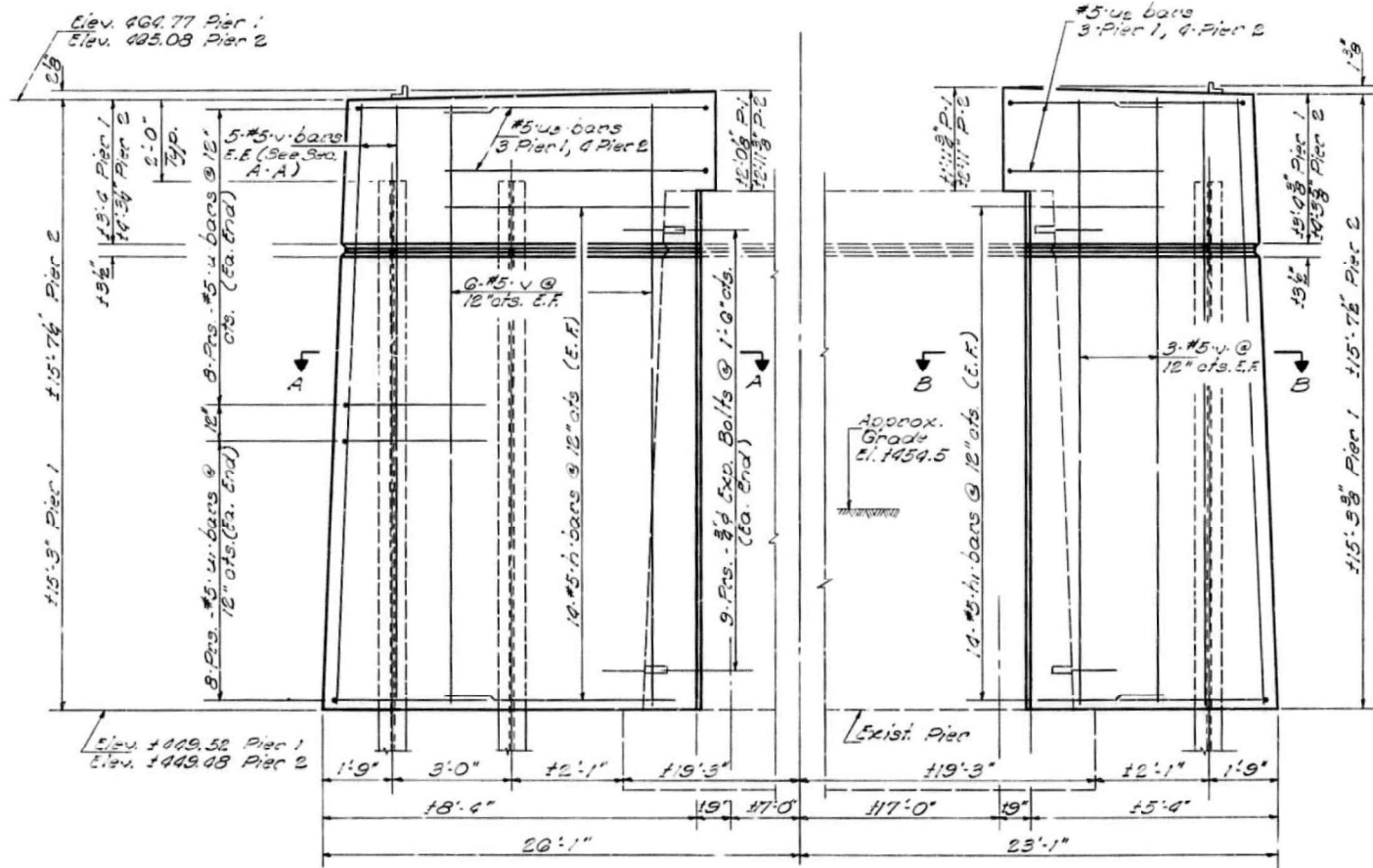
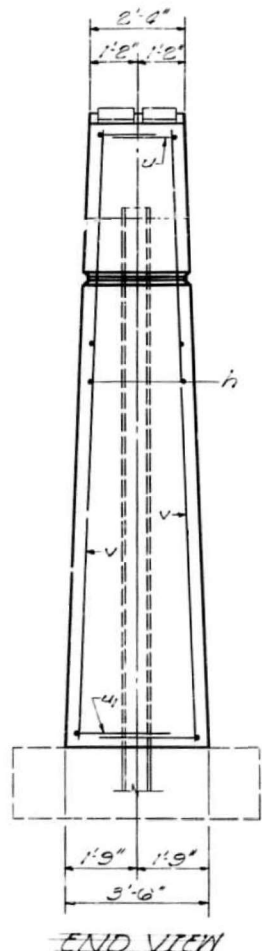
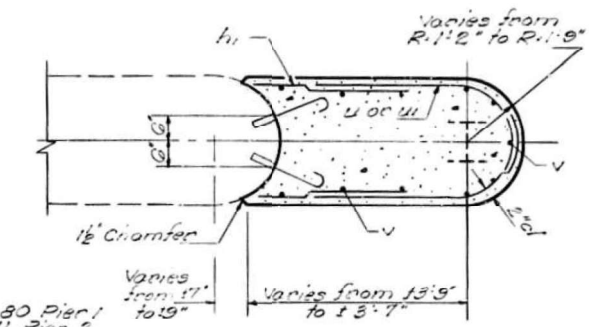
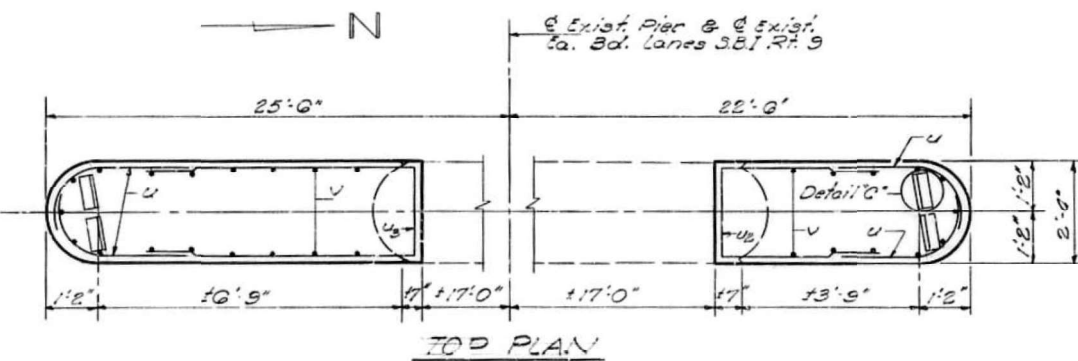
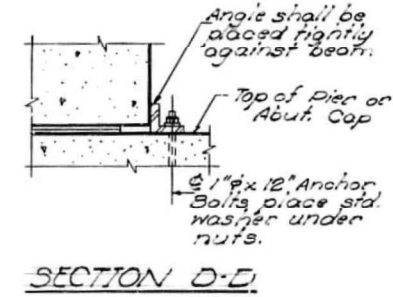
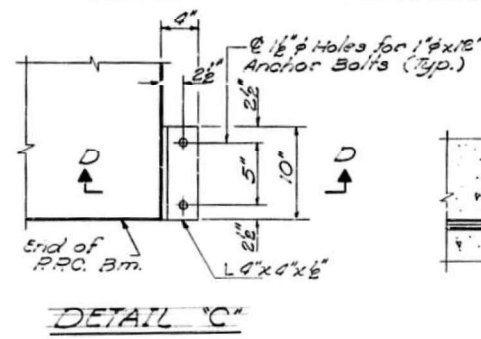
FOR INFORMATION ONLY

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10	45RB-2	PEORIA	21	19
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 5
7 SHEETS



TWO PIERS
BILL OF MATERIAL

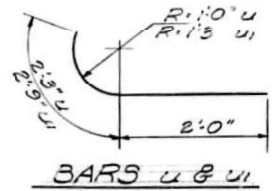
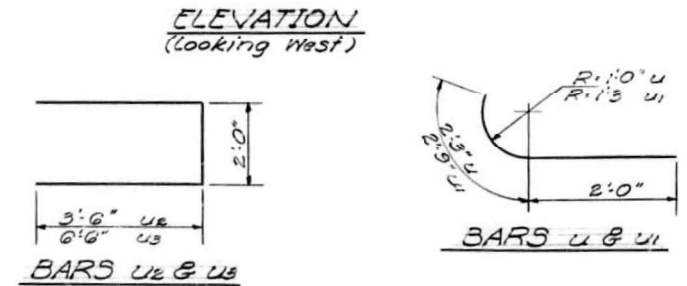
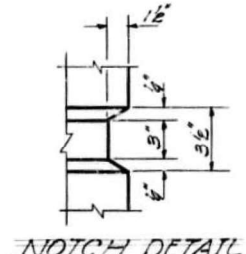
Bar	No	Size	Length	Shape
h	50	#5	6'-0"	—
h1	50	#5	3'-0"	—
u	60	#5	4'-3"	┌
u1	60	#5	4'-3"	└
u2	7	#5	9'-0"	┌
u3	7	#5	15'-0"	└
v	50	#5	15'-0"	—
Class X Concrete		Cu. Yds.	39.7	
Reinforcement Bars		Lbs.	2180	
Expansion Bolts #5		L/20th	72	
Steel Piles (HP 8x30)		L/10th Ft.	128	
Test Piles Steel (HP 8x30)		Ea.	1	

PILE DATA
Type Steel (HP 8x30)
Capacity Drive to refusal
Est. Length 25 Ft. Pier 1
26 Ft. Pier 2
No. Reqd. 5 + 1 test pile @ Pier 1

PIERS
SBI RT 9 SEC 45RB-2
PEORIA COUNTY
STA. 490 +94.15

DESIGNED R. T. ROLEY
CHECKED [Signature]
DRAWN J. SCHNEIDER
CHECKED [Signature]

EXAMINED [Signature] MARCH 6 1975
PASSED [Signature]
APPROVED [Signature]



MODEL: Default
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FOR INFORMATION ONLY

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PLOT SCALE = 1:100	DRAWN -	REVISED -
PLOT DATE = 3/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OLD STRUCTURE PLANS

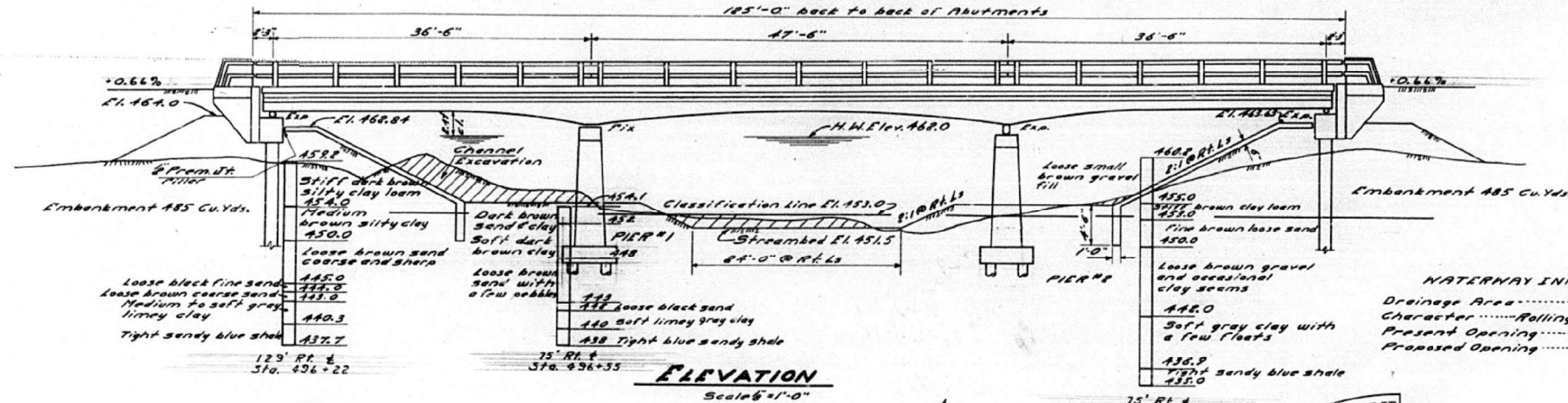
SCALE: SHEET 5 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	70
CONTRACT NO. 68E48			ILLINOIS FED. AID PROJECT	

B.M. #40: Brass plug in S.H. Midg of Existing Bridge
100'± R.L. Sta. 496+25' E.L. 461.05
Existing Structure: Concrete thru girder 60' long, 8' Rdwy.
Closed Concrete Abuts. Paving Contractor
on Sec. 45 R shall remove after new road
is open to traffic.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. / SHEETS
S.A. 9	45RB	PEORIA	31	24	7
F.A. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

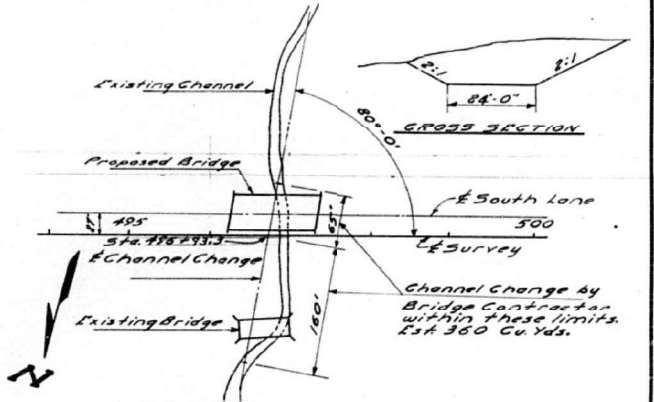
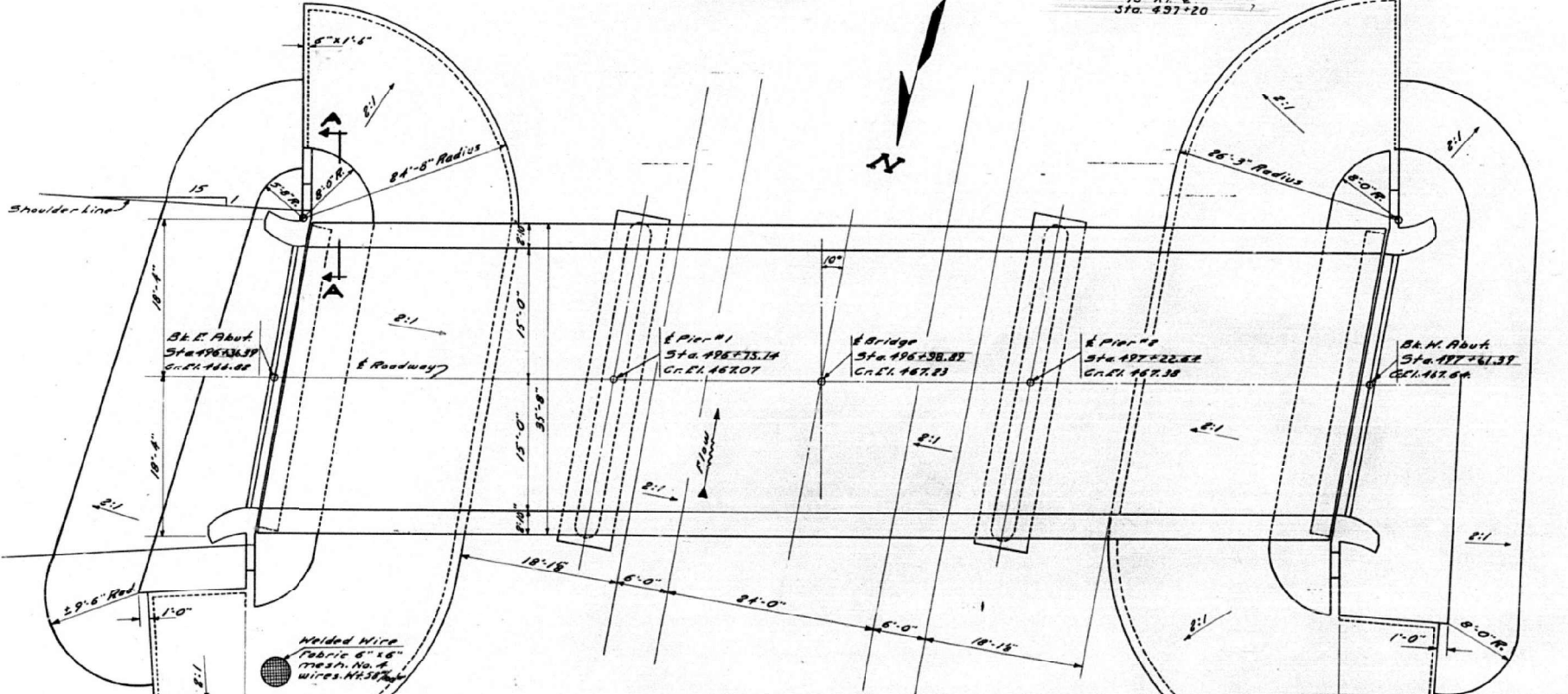


GENERAL NOTES

Class X Concrete shall be used thruout except in end posts and piers.
Class A Concrete shall be used in piers.
Handrail Concrete shall be used in end posts.
The concrete girders and floor slabs shall be poured in one continuous operation between joints.
The concrete floor slab shall be finished in accordance with Art. 51.18(C) of the Standard Specifications.
All rollers, rollers, bearing plates, lead plates, sponges and anchor bolts shall be fabricated and set in accordance with Art. 51.18(A) of the Standard Specifications and are included for payment as Structural Steel. All rollers are included for payment as Structural Steel. All rollers are included for payment as Structural Steel.
Expansion guards shall be fabricated and erected in accordance with Art. 51.18(C) of the Standard Specifications.
Metal Handrail and Structural Steel shall receive one shop coat of red lead paint after inspection and two field coats of aluminum paint. All paint shall be furnished and applied by the contractor.
All Metal Work, including rail post anchors, is included for payment as Metal Handrail. The number of lin. ft. is measured face to face of concrete abutts.
The contract unit price for Metal Handrail includes installing and painting the Handrail.
The Contractor shall drive Two Test Piles in permanent location, as directed by the Engineer, before ordering or casting the remainder of the Piles.
Boring logs are shown only as a guide to bidders in estimating soil conditions which may be encountered in the work.
Layout of Slope walls may be varied as necessary to conform to ground surface if Pier embankment has been constructed, if so directed by the Engineer.
Before Superstructure is placed, construct embankment in accordance with Art. 15 of the Standard Specifications. Material for embankment to be obtained from channel excavation and borrow. Borrow to be furnished by Bridge Contractor.

WATERWAY INFORMATION

Drainage Area.....5000 Acres
Character.....Rolling, Hilly, Wooded, Cultiv.
Present Opening.....285 FT
Proposed Opening.....700 FT



PROPOSED CHANNEL CHANGE

TOTAL BILL OF MATERIAL

ITEM	SUPER	SUB.	TOTAL	
Class X Concrete	Cu. Yds.	193.3	44.7	238.0
Class A Concrete	Cu. Yds.		140.7	140.7
Handrail Concrete	Cu. Yds.	1.6		1.6
Reinforcement Bars	Lbs.	54,010	6,790	60,790
Structural Steel	Lbs.	8,670		8,670
Metal Handrail	Lin. Ft.	2,493		2,493
16" Precast Concrete Piles (21/2")		198		198
Test Piles (Concrete)	Each	1		1
Slope wall	Sq. Yds.			648
Name Plate	Each			1
Channel Excavation	Cu. Yds.			360
Class A Excav for Struct	Cu. Yds.			30
Class B Excav for Struct	Cu. Yds.			240
Borrow Excavation	Cu. Yds.			889
Untreated Timber Piles	Lin. Ft.		300	300
Test Piles (Timber)	Each		1	1
Metal Pile Shoes	Each		32	32
Tyre Removal	REISER			0.6

STATION 496+96(1)
BUILT 185 BY
STATE OF ILLINOIS
R.A. RT. 10 SEC. 45 R-B
F.A. PROJ. F-33(7)
LOADING H20-S16

NAME & DATA

See Sta. 4113

STRESSES

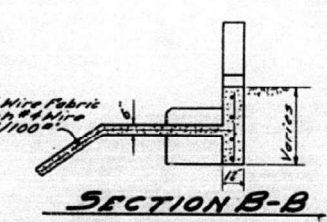
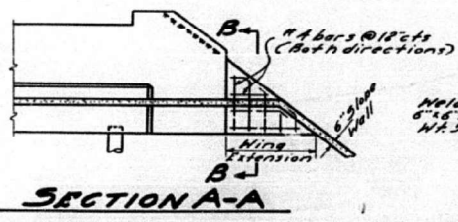
$F = 20,000 \frac{lb}{sq. in.}$
 $F_c = 1,400 \frac{lb}{sq. in.}$ Super.
 $F_c = 800 \frac{lb}{sq. in.}$ Sub.
 $n = 10$
Loading H20-S16-44

GENERAL PLAN & ELEVATION
PROJECT F-33(7)
F.A. RT. 10 (S.B.I. RT. 9) SECTION 45 R-B
PEORIA COUNTY
STATION 496+94(1)

DESIGNED: M. J. Rice
CHECKED: Vedat M. Capkun
DRAWN: M. J. Rice, C. Pulley
CHECKED: Vedat M. Capkun

EXAMINED: W. E. Hansen
PASSED: E. J. ...
APPROVED: F. H. ...

June 19 1953



FOR INFORMATION ONLY

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PLOT SCALE = 1:100	DRAWN -	REVISED -
PLOT DATE = 3/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

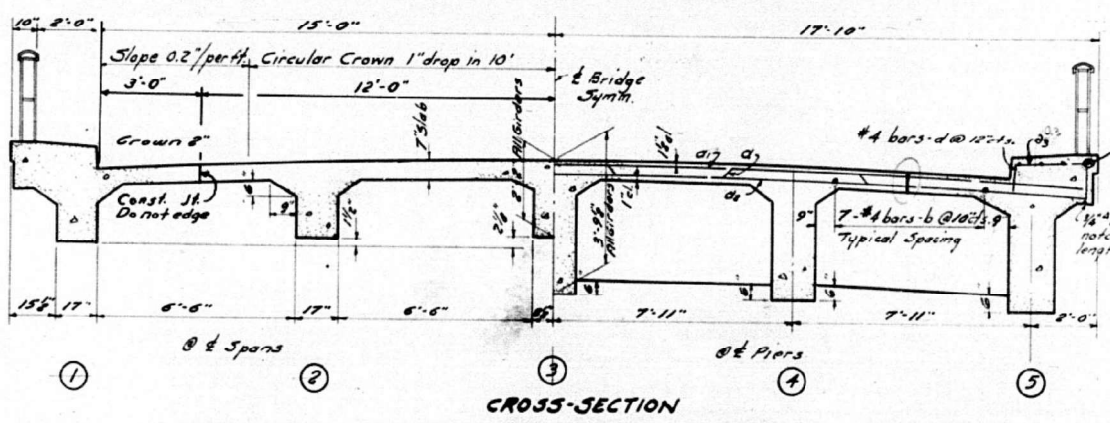
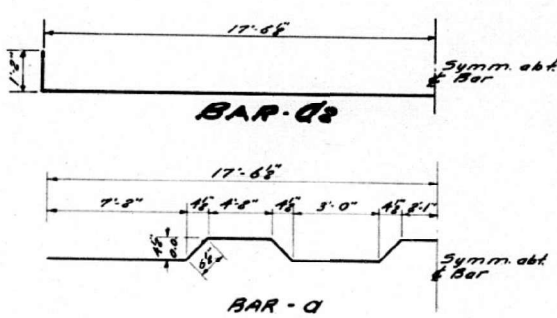
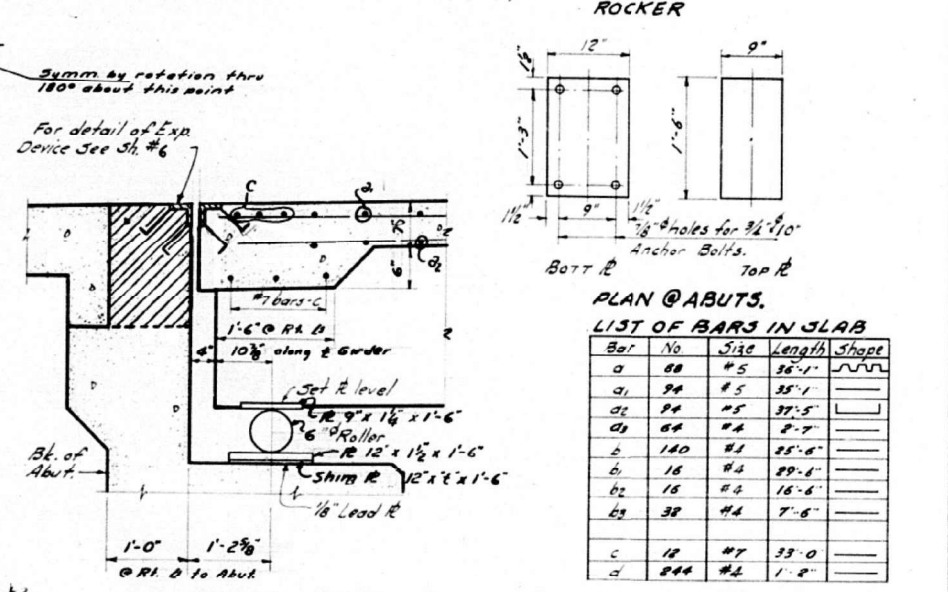
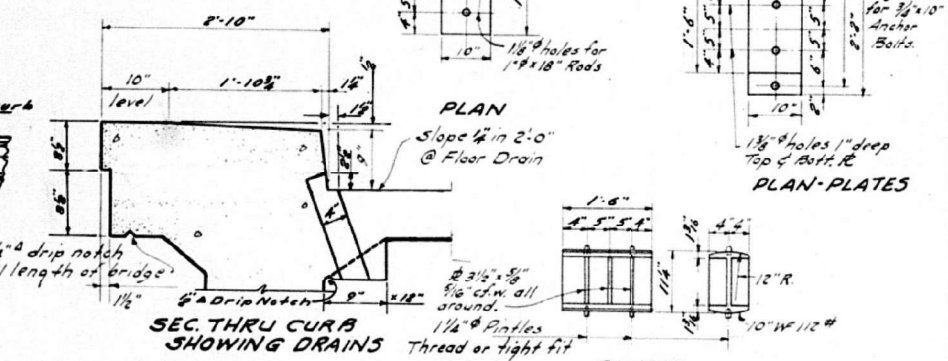
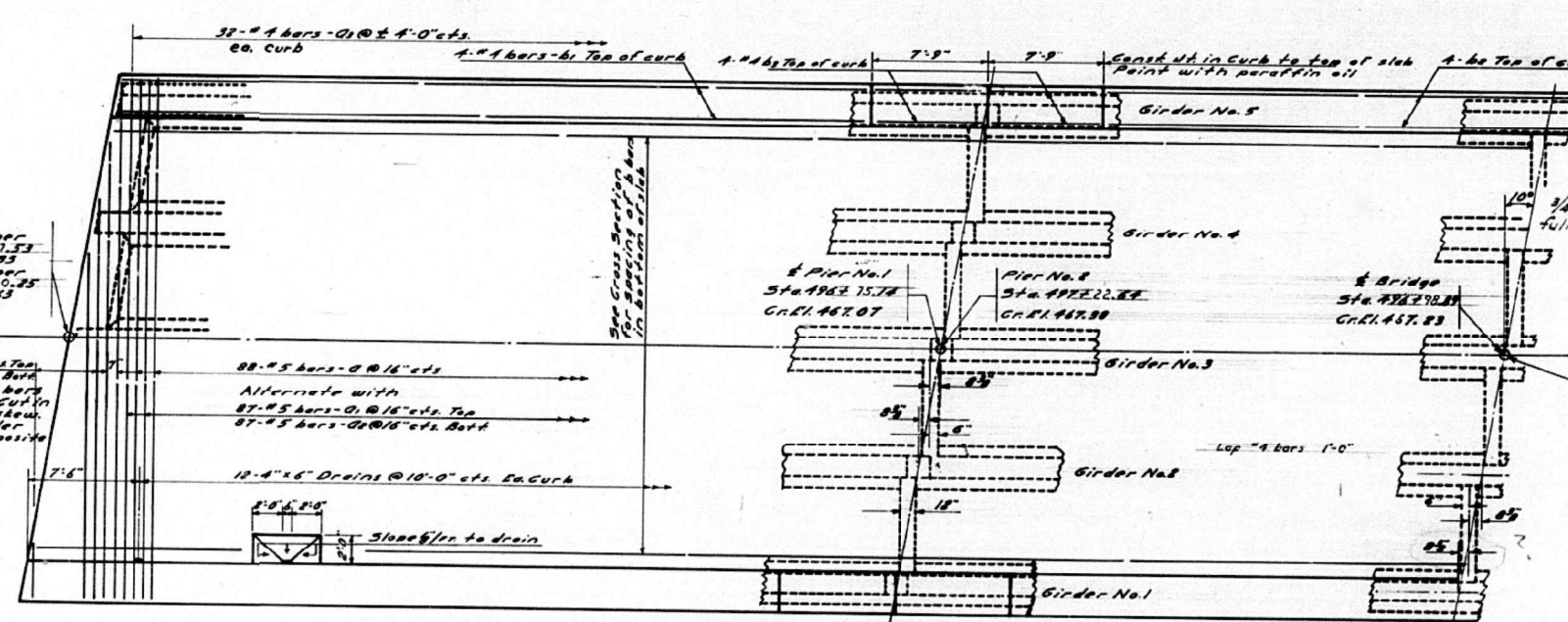
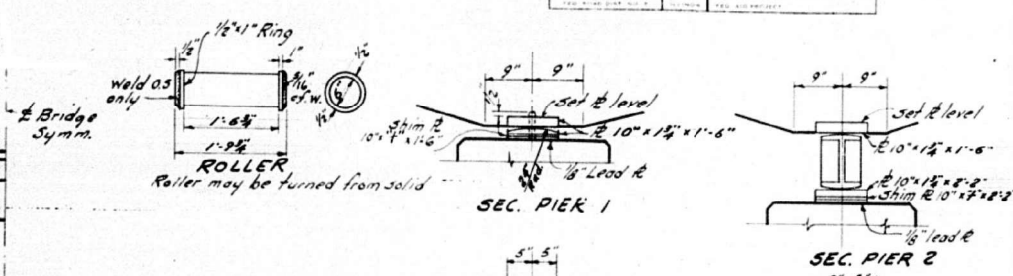
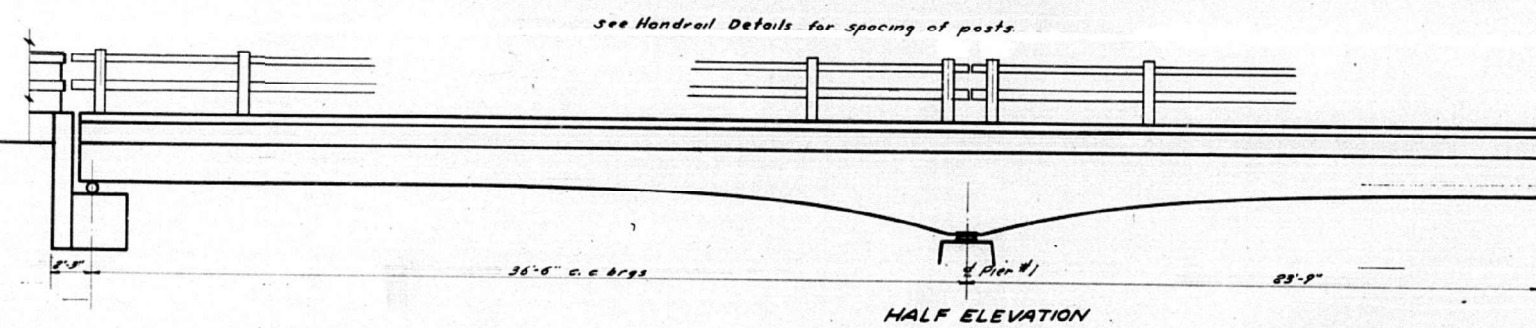
OLD STRUCTURE PLANS

SCALE: SHEET 8 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	73
CONTRACT NO. 68E48				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9	45RB	PEORIA	31	25
				7 SHEETS



PLAN @ ABUTS.

LIST OF BARS IN SLAB

Bar	No	Size	Length	Shape
a	88	#5	36'-1"	U
a1	94	#5	35'-1"	U
a2	94	#5	37'-5"	U
a3	64	#4	2'-7"	U
b	140	#4	25'-6"	U
b1	16	#4	29'-8"	U
b2	16	#4	16'-6"	U
b3	38	#4	7'-6"	U
c	12	#7	33'-0"	U
d	244	#2	1'-2"	U

BILL OF MATERIALS IN SUPER.

ITEM	Quantity
Class X Concrete	Cu.Yds. 193.7
Handmade Concrete	
Reinforcing Bars	Lbs. 53840
Structural Steel	Lbs. 8470
Metall Handcraft	
Name R	Ko 1

SUPERSTRUCTURE
PROJECT F-33(7)
F.A.R.T. 10(S.B.I.R.T. 9) SEC. 45RB
PEORIA COUNTY
STATION 196+74(2)

FOR INFORMATION ONLY

DESIGNED: *Marcus J. P...*
CHECKED: *Vedat M. Cookin*
DRAWN: *M.J.P.*
APPROVED: *Vedat M. Cookin*

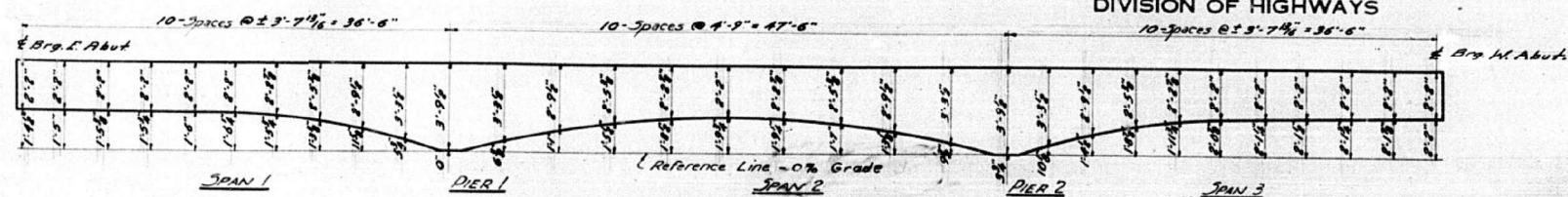
EXAMINED: *W.B. Hanson*
PASSED: *C. J. ...*
APPROVED: *J.N. Parker*

JUNE 13 1953

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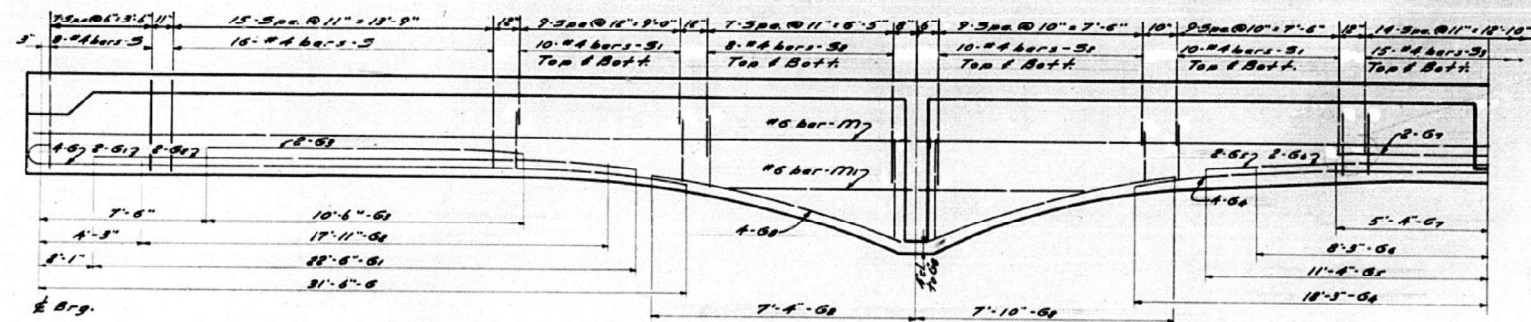
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	45RB PEORIA	SHEET NO.	31	26	SHEET NO.	7
7 SHEETS						

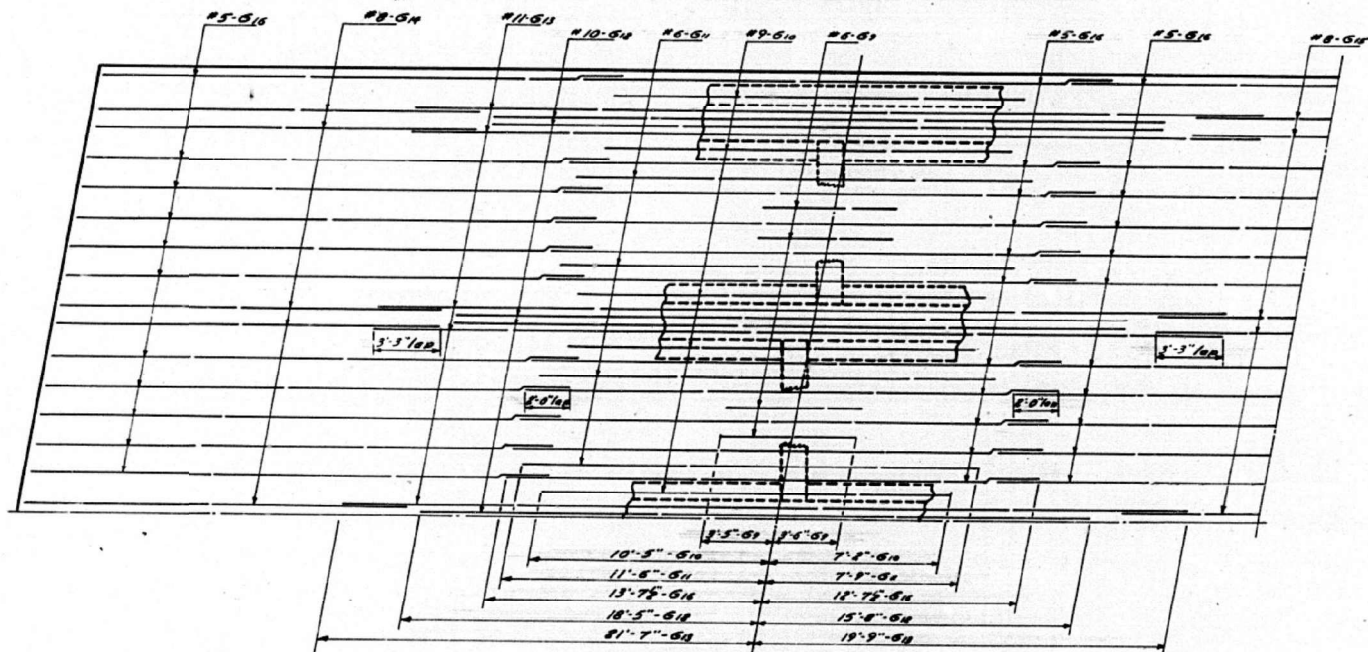


GIRDER ORGINATES (ALL GIRDERS)

Girder Ordinates include Dead Load Deflections. Contractor shall also allow for Settlement of Forms and Shrinkage.

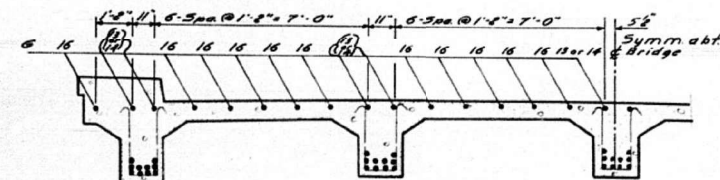


HALF ELEVATION OF GIRDERS

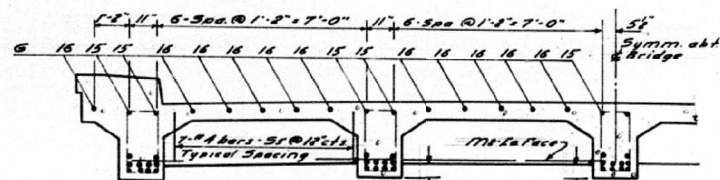


QUARTER PLAN

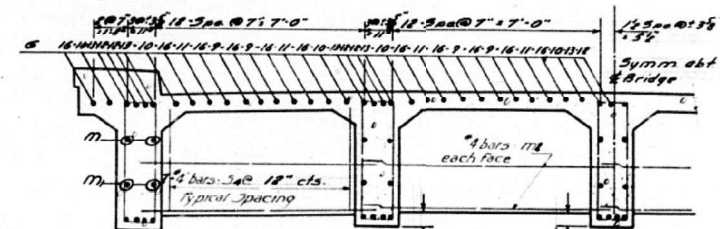
SHOWING LONGITUDINAL REINFORCEMENT IN TOP OF SLAB



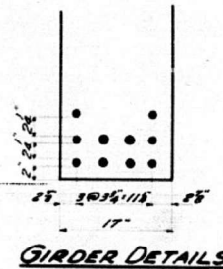
HALF SECTION AT & SPAN 1 OR 3



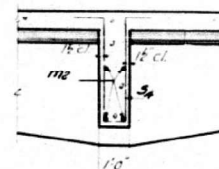
HALF SECTION AT & SPAN 2



HALF SECTION AT PIER



GIRDER DETAILS



SECTION THRU DIAPHRAGM

BAR LIST- GIRDERS & DIAPHR.

BAR	NO.	SIZE	LENGTH	SHAPE
G1	40	#11	33'-10"	C
G2	80	#11	22'-6"	C
G3	80	#11	17'-11"	C
G4	80	#9	10'-6"	C
G5	20	#11	22'-8"	C
G6	10	#11	16'-6"	C
G7	10	#9	10'-8"	C
G8	80	#9	15'-4"	C
G9	16	#6	6'-11"	C
G10	20	#9	17'-7"	C
G11	16	#6	19'-3"	C
G12	80	#10	34'-1"	C
G13	80	#11	41'-4"	C
G14	20	#8	19'-0"	C
G15	10	#8	14'-6"	C
G16	110	#5	26'-3"	C
G17	240	#4	5'-7"	U
G18	160	#4	7'-0"	U
G19	360	#4	5'-8"	U
G20	150	#4	4'-0"	U
G21	50	#4	7'-7"	U
G22	28	#4	4'-7"	U
G23	50	#6	24'-6"	U
G24	20	#6	9'-8"	U
G25	40	#4	9'-0"	U

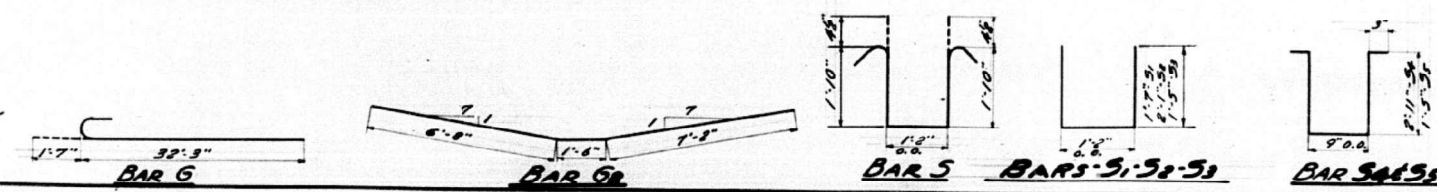
GIRDER DETAILS

PROJECT 33(1)
F.A.R.T. 10 (S.B.I.R.T. 9) SECTION 45-R-B
PEORIA COUNTY
STATION 496+94(1)

DESIGNED: *M. J. Rice*
CHECKED: *Vedat M. Coburn*
DRAWN: *M. J. Rice*
CHECKED: *Vedat M. Coburn*

EXAMINED: *W. B. Hanson*
PASSED: *E. L. Hanson*
APPROVED: *F. N. Barber*

June 19 1953



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OLD STRUCTURE PLANS

USER NAME = SUSERS	DESIGNED -	REVISED -
PLOT SCALE = 1:100	DRAWN -	REVISED -
PLOT DATE = 3/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

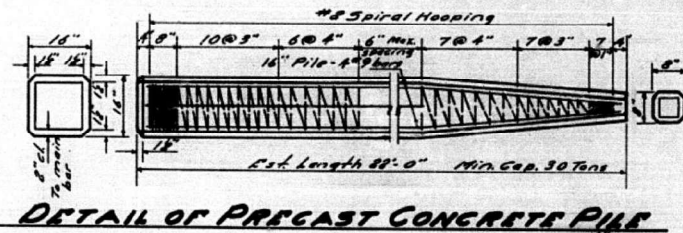
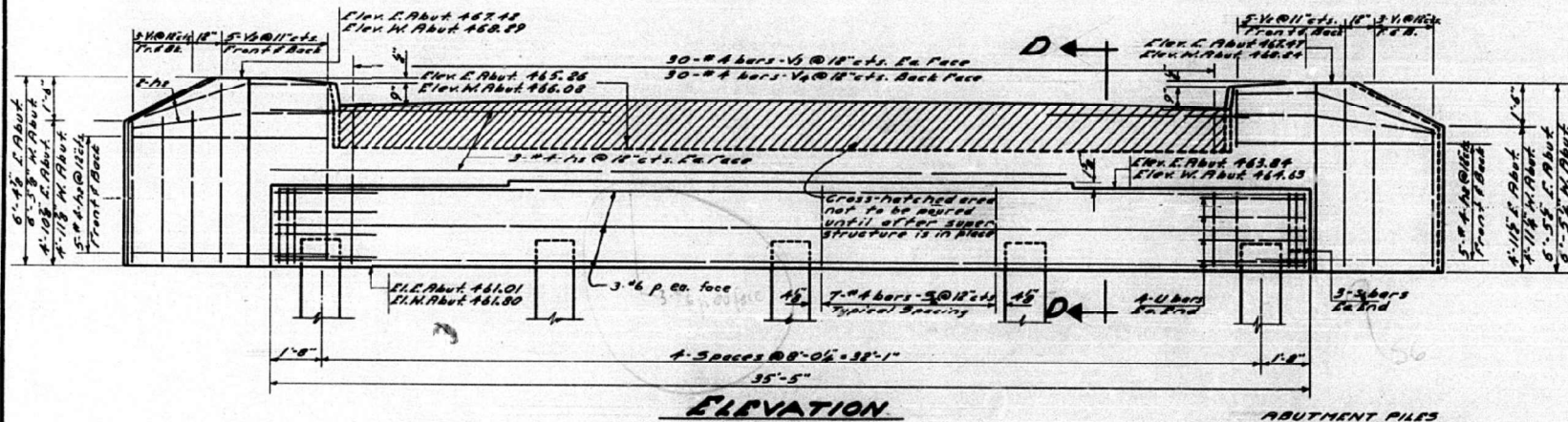
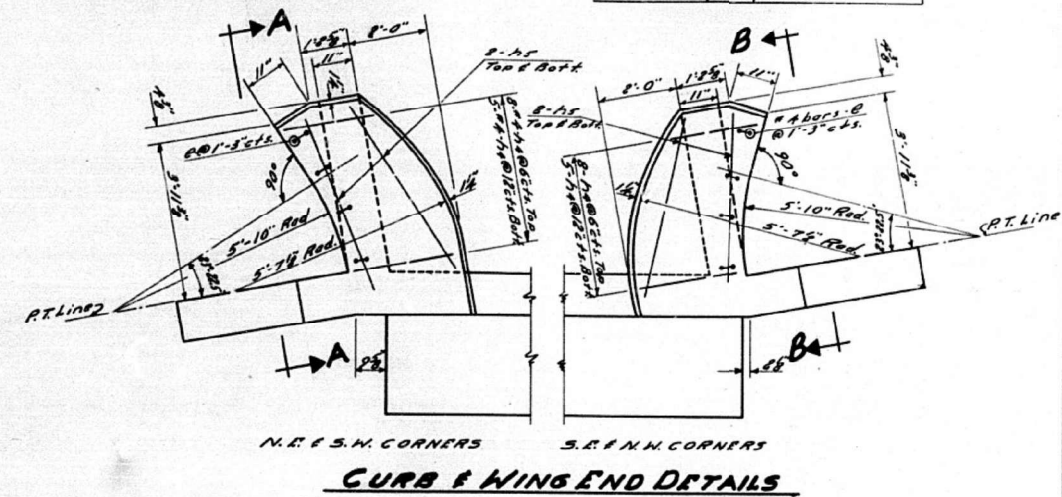
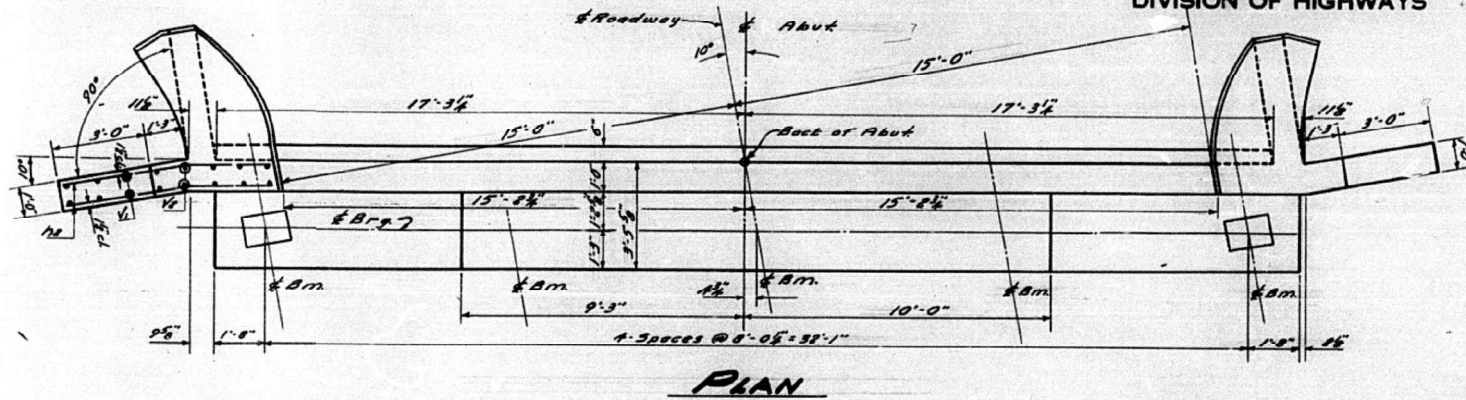
SCALE:	SHEET 10 OF 14 SHEETS	STA.	TO STA.
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
317	45(RB)BR	PEORIA	86
SHEET NO. 75			
CONTRACT NO. 68E48			
ILLINOIS FED. AID PROJECT			

FOR INFORMATION ONLY

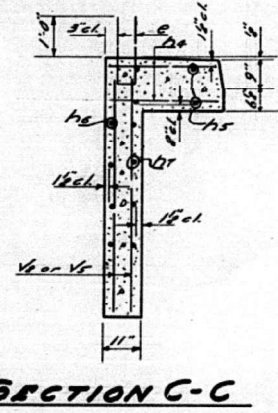
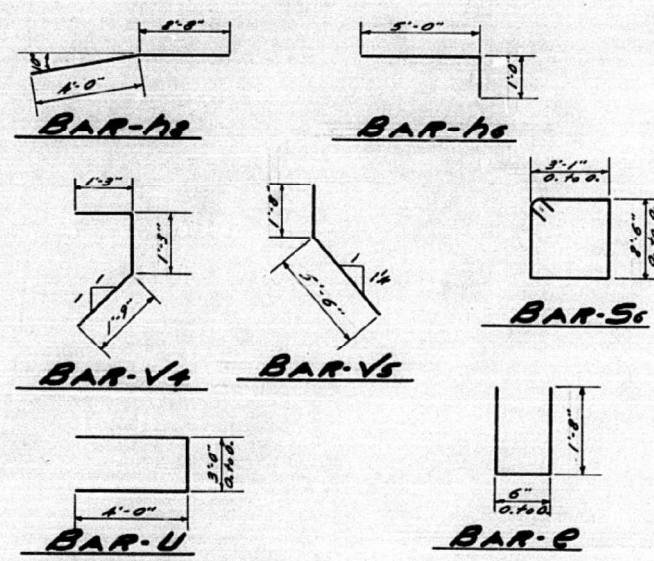
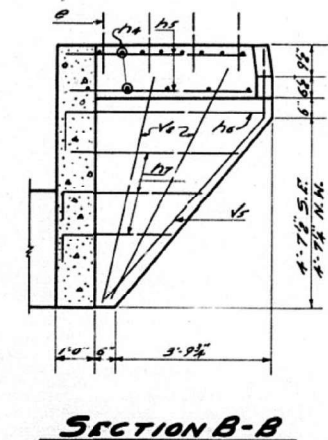
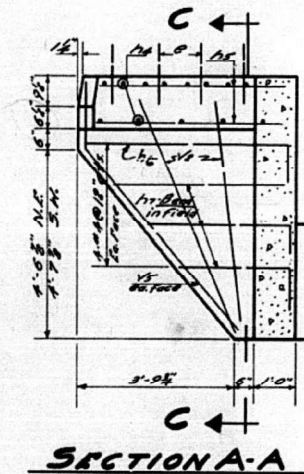
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STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
45RB	PEORIA	31	28	7 SHEETS
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



ABUTMENT PILES
18" PRECAST CONCRETE
EST. LENGTH 88'-0"
MIN. CAP. 30 TONS
NO. REQS. 8 ABUTS. - 10

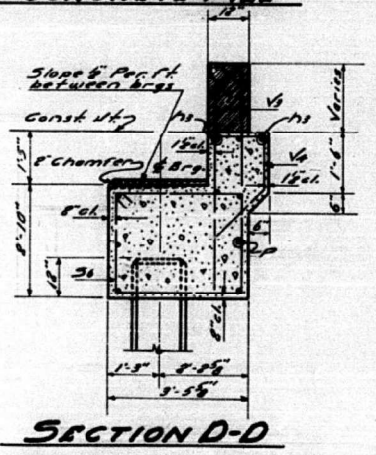


BILL OF MATERIAL - 8 ABUTMENTS

BAR NO.	SIZE	LENGTH	SHAPE	BAR NO.	SIZE	LENGTH	SHAPE
H2	#4	6'-0"	—	V1	#4	4'-10"	—
H2	#4	18'-6"	—	V6	#4	6'-8"	—
H4	#4	8'-6"	—	V6	#4	5'-0"	—
H5	#4	4'-6"	—	V4	#4	4'-3"	—
H6	#4	6'-0"	—	V5	#4	7'-8"	—
H7	#4	4'-5"	—				
				P	#4	34'-6"	—
				S6	#4	11'-11"	—
				U	#6	11'-0"	—
Class X Concrete				Cu. Yds. 44.7			
Reinforcement Bars				Lbs. 3350			
Precast Concrete Piles				Lin. Ft. 198			
Test Pile				Cu. 1			

DESIGNED *Marcus J. Quie*
CHECKED *Vedat M. Coşkun*
DRAWN *M. J. Q. C. Polley*
CHECKED *Vedat M. Coşkun*

EXAMINED *W. E. Hanson* JUN 19 1953
PASSED *[Signature]*
APPROVED *[Signature]*



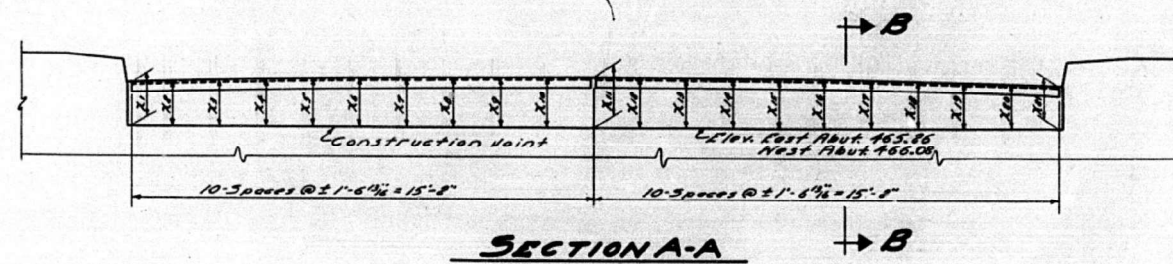
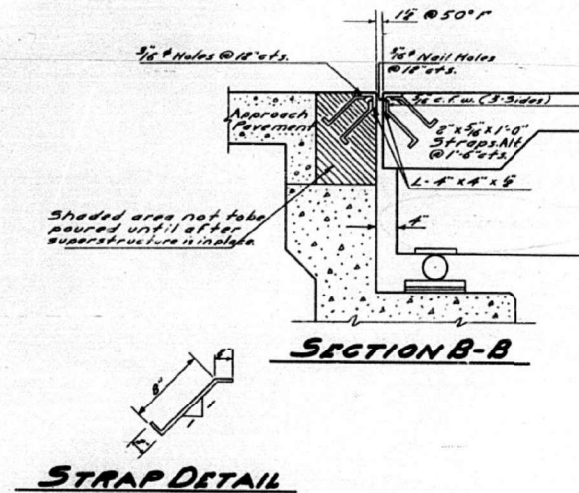
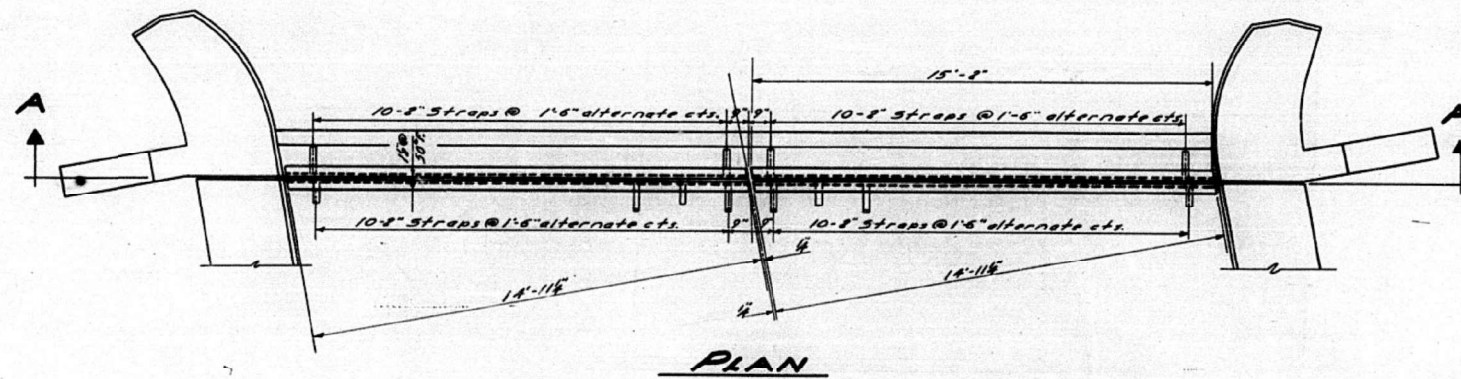
ABUTMENTS
PROJECT F-33(7)
F.A.R.M.S. B.I. RT. 9) SECTION 45-RB
PEORIA COUNTY
STATION 496+94 (1)

FOR INFORMATION ONLY

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STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. OF SHEETS
F.A.R.T. 9	45RB	PEORIA	31	29	7 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			



NOTE

The Roadway Expansion Guard shall be fabricated to fit the Roadway.
All surfaces inaccessible after erection shall receive two shop coats of red lead paint except the 5/8" x 3/4" straps. The straps shall not be painted. Estimated wt. 1730 lbs. for 2 Expansion Guards complete. Included for payment as Structural Steel on Sheet #2.

TABLE OF X DIMENSIONS

	X ₁	X ₂	X ₃	X ₄	X ₅	X ₆	X ₇	X ₈	X ₉	X ₁₀	X ₁₁	X ₁₂	X ₁₃	X ₁₄	X ₁₅	X ₁₆	X ₁₇	X ₁₈	X ₁₉	X ₂₀	X ₂₁	
East Abut	1'-4 1/2"	1'-4 1/2"	1'-5 1/2"	1'-5 1/2"	1'-6"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"
West Abut	1'-4 1/2"	1'-5 1/2"	1'-5 1/2"	1'-5 1/2"	1'-6"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"

DESIGNED *Marcus J. Rice*
CHECKED *Vedat M. Copkun*
DRAWN *M. J. G. Pulley*
CHECKED *Vedat M. Copkun*

EXAMINED *W.E. Hanson*
PASSED *[Signature]*
APPROVED *J.M. Baker*

June 19 1953

EXPANSION GUARD
PROJECT F-33(7)
F.A.R.T. 10 (S.B.I. RT. 9) SEC. 45 RB
PEORIA COUNTY
STATION 496+94(1)

FOR INFORMATION ONLY

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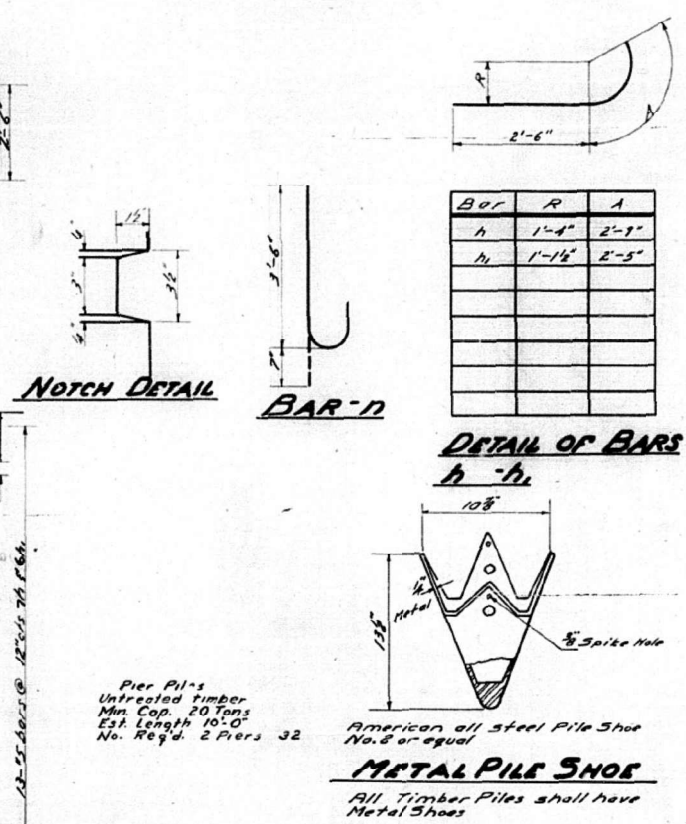
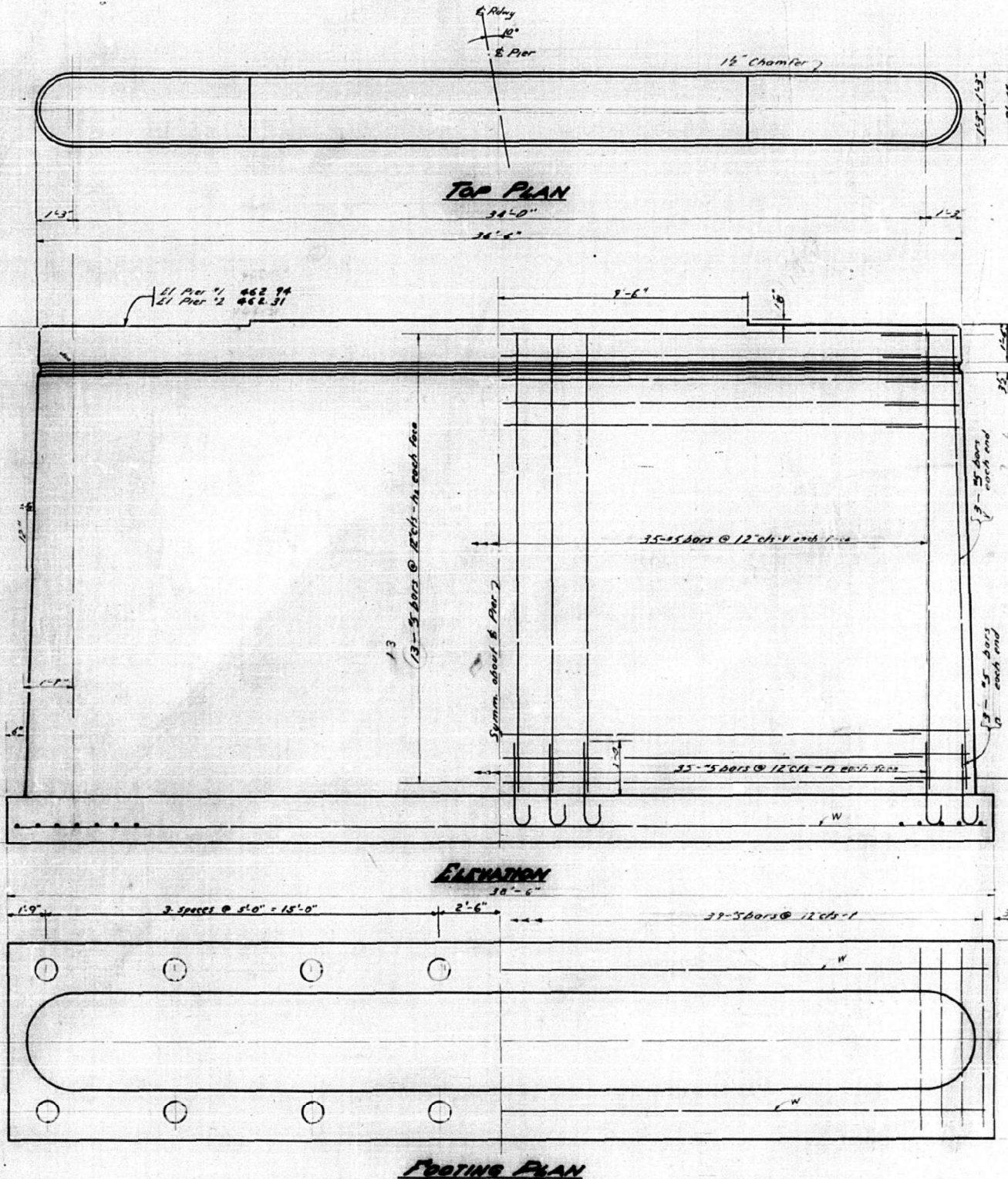
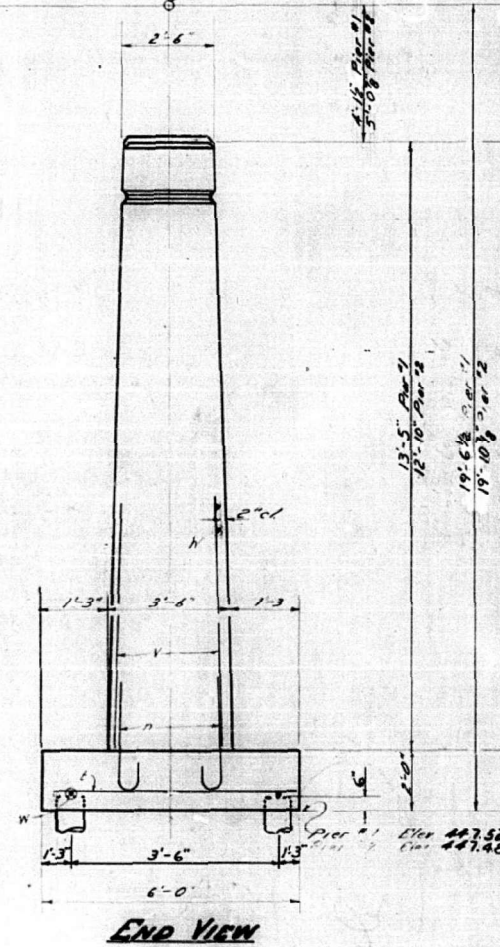
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PLOT SCALE = 1:100	CHECKED -	REVISED -	SCALE:	SHEET 13 OF 14 SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 68E48
PLOT DATE = 3/18/2021	DATE -	REVISED -							

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9	45RB	PEORIA	31	30

SHEET NO. 7
7 SHEETS

Pier #1 Sta. 496+75.14 Cr. Elev. 467.07
Pier #2 Sta. 497+22.84 Cr. Elev. 467.38



Bar	R	A
h	1'-4"	2'-9"
h ₁	1'-1 1/2"	2'-5"

Pier Piles
Untreated timber
Min. Cap. 20 Tons
Est. length 10'-0"
No. Req'd. 2 Piers 32

American all steel Pile Shoe
No. 5 or equal
METAL PILE SHOE
All Timber Piles shall have
Metal Shoes

BILL OF MATERIAL - PIERS 1 & 2

BAR	NO.	SIZE	LENGTH	BAR	NO.	SIZE	LENGTH
V	152	#5	12'-8"	h	56	#5	5'-3"
				h ₁	48	#5	4'-11"
h	152	#5	4'-1"	h ₂	52	#5	34'-0"
l	28	#5	5'-9"				
W	8	#4	19'-9"				
Class 'A' Concrete			Cu Yds.			140.7	
Reinforcement Bars			Lbs.			5630	
Untreated Timber Piles (10')			Lin. Ft.			300	
Test Piles			Each			1	
Metal Pile Shoes			Each			32	

PIERS
PROJ F-33(7)
F.A. RT. 10 (S.B.I. Rt. 9) SEC. 45 R-B
PEORIA COUNTY
STA. 496+94(1)

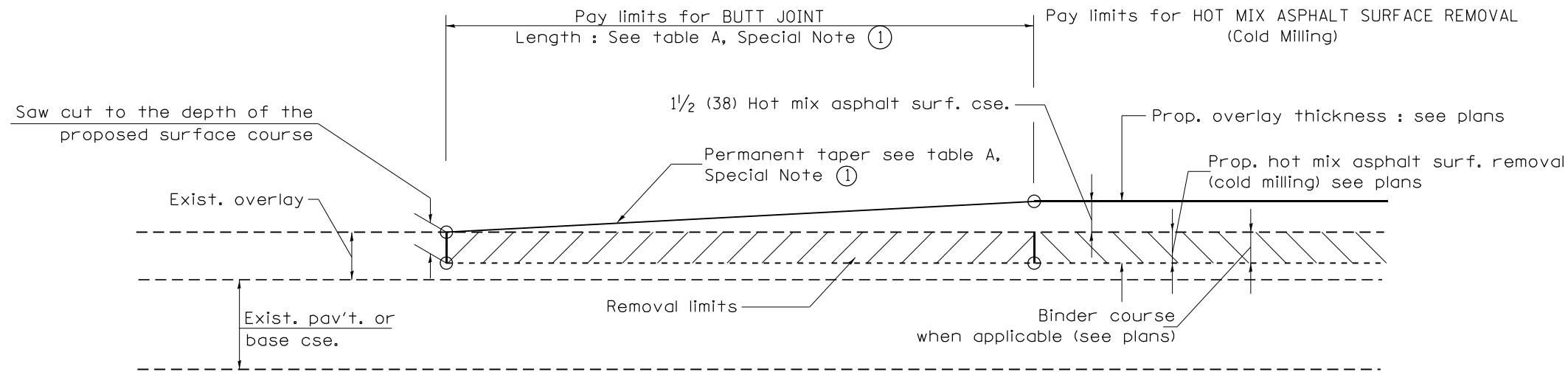
DESIGNED *Marcus J. Quie*
CHECKED *Vedat M. Coburn*
DRAWN *M.J. Quie*
CHECKED *Vedat M. Coburn*

EXAMINED *W.E. Hanson*
PASSED *[Signature]*
APPROVED *A.M. Parker*

JUNE 19 1953

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FOR INFORMATION ONLY



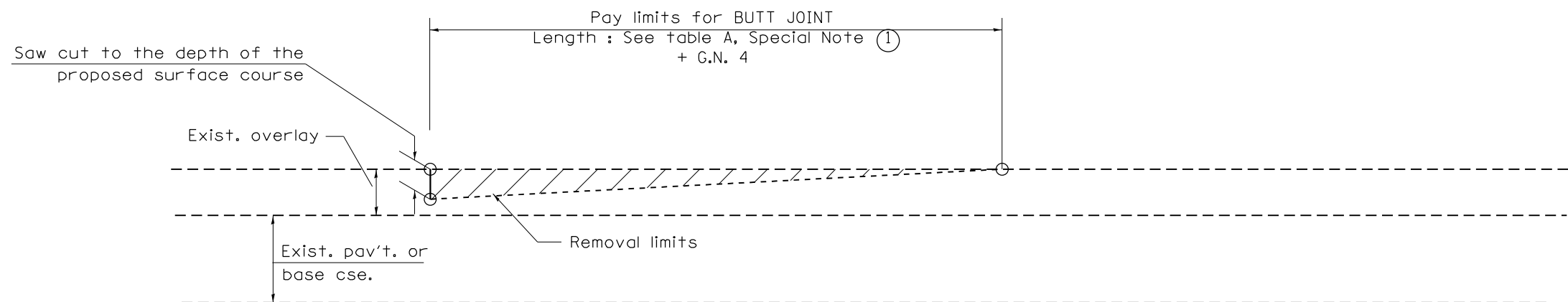
CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

**TABLE A
TAPER RATES**

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
①	BUTT JOINT TAPER RATE	1:480	1:240
②	TEMPORARY RAMP TAPER RATE	1:80	1:40

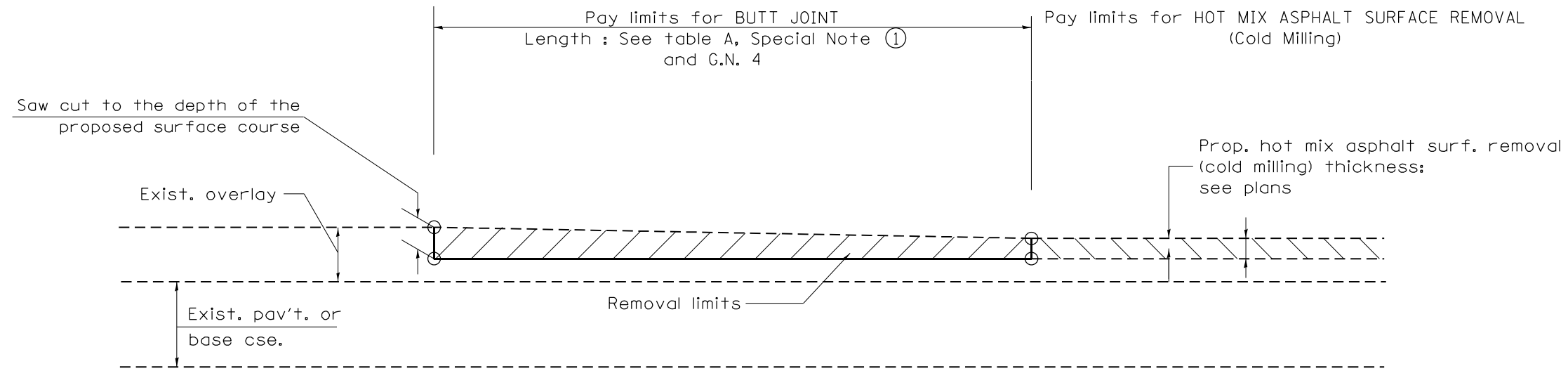
GENERAL NOTES

1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.
4. The length of butt joint is based on the taper rate times change in cold milling depth within the butt joint pay limits, unless otherwise indicated.
5. Temporary ramps are paid for separately and not included in the cost of the butt joints.

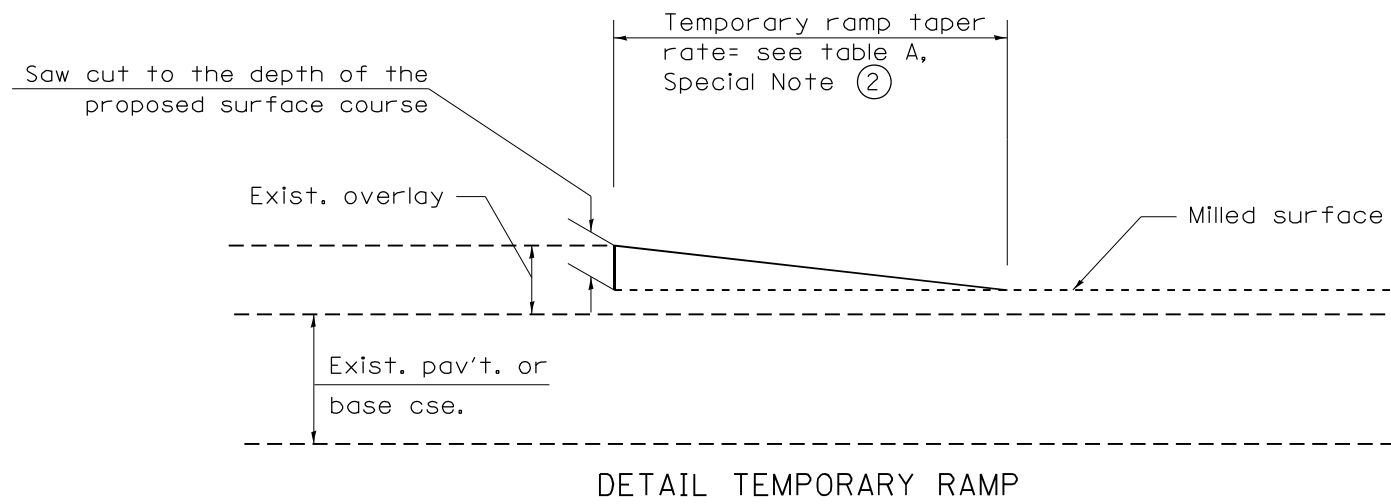


CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

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

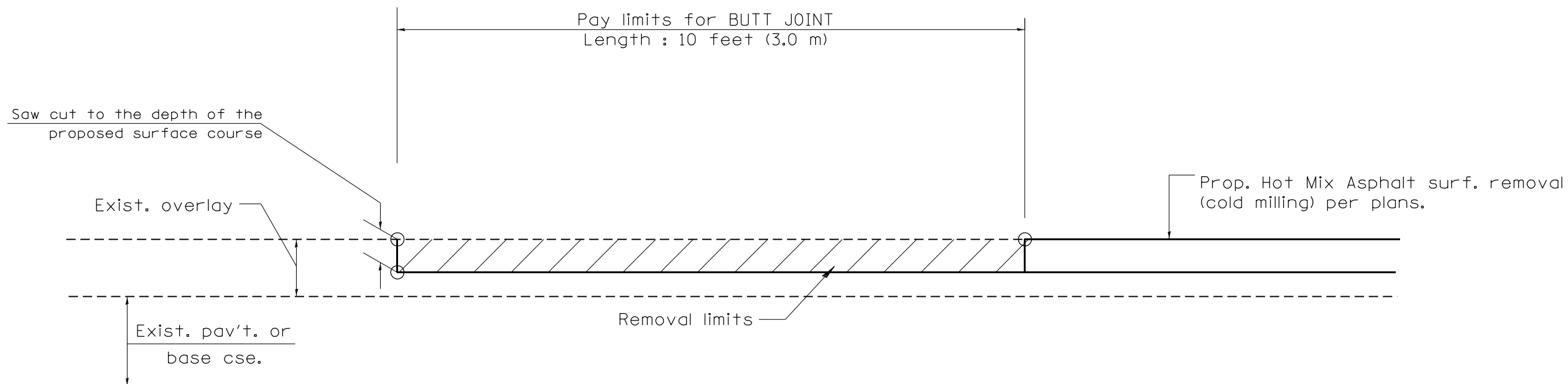


**CASE 3 : HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER**



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

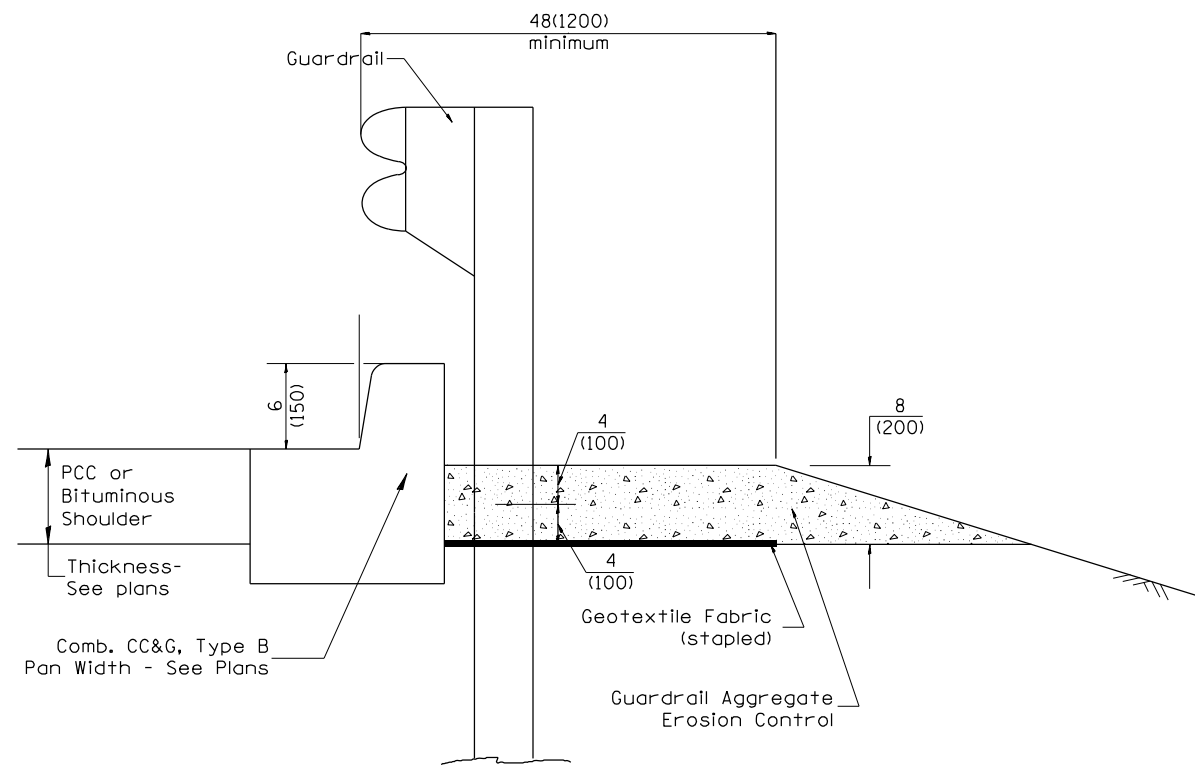
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				BUTT JOINTS		F.A.P. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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NOT TO SCALE						SHT. 2 OF 3		CONTRACT NO. 68E48			
						CADD STD. 406101-D4		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			



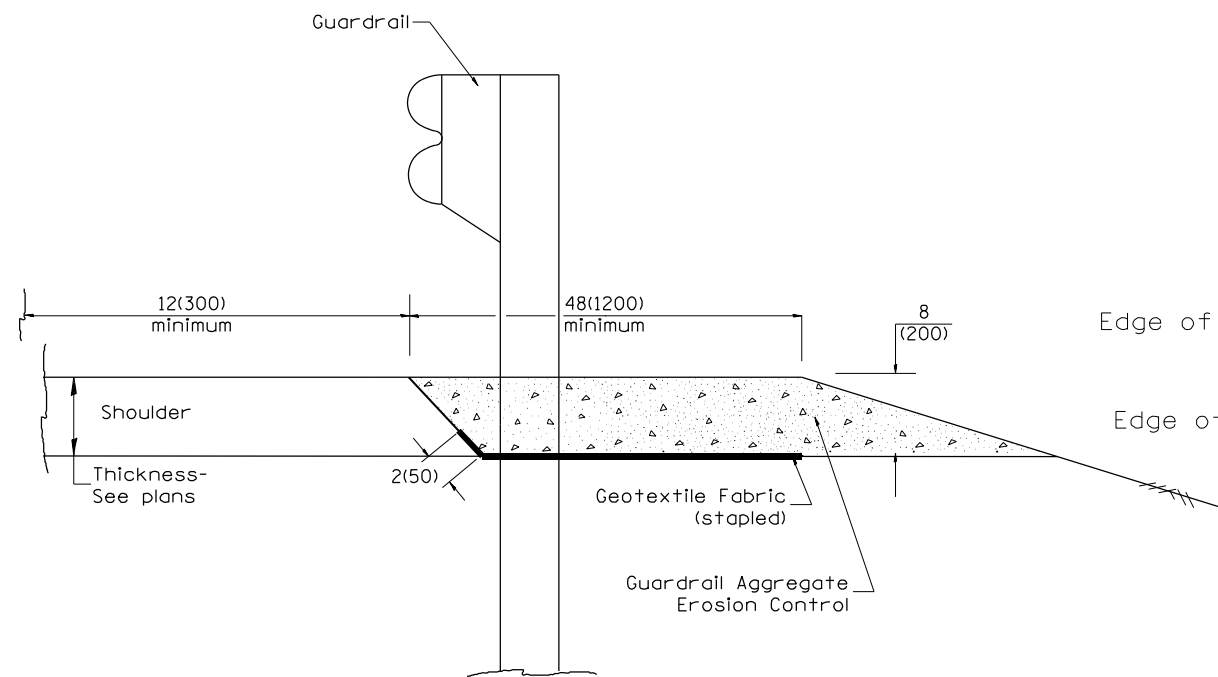
CASE 4 : SINGLE LIFT OVERLAY WITH EQUIVALENT DEPTH
HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER

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

				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		BUTT JOINTS		SHT. 3 OF 3 CADD STD. 406101-D4	
				NOT TO SCALE				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
317	45(RB)BR	PEORIA	86	82	CONTRACT NO. 68E48				



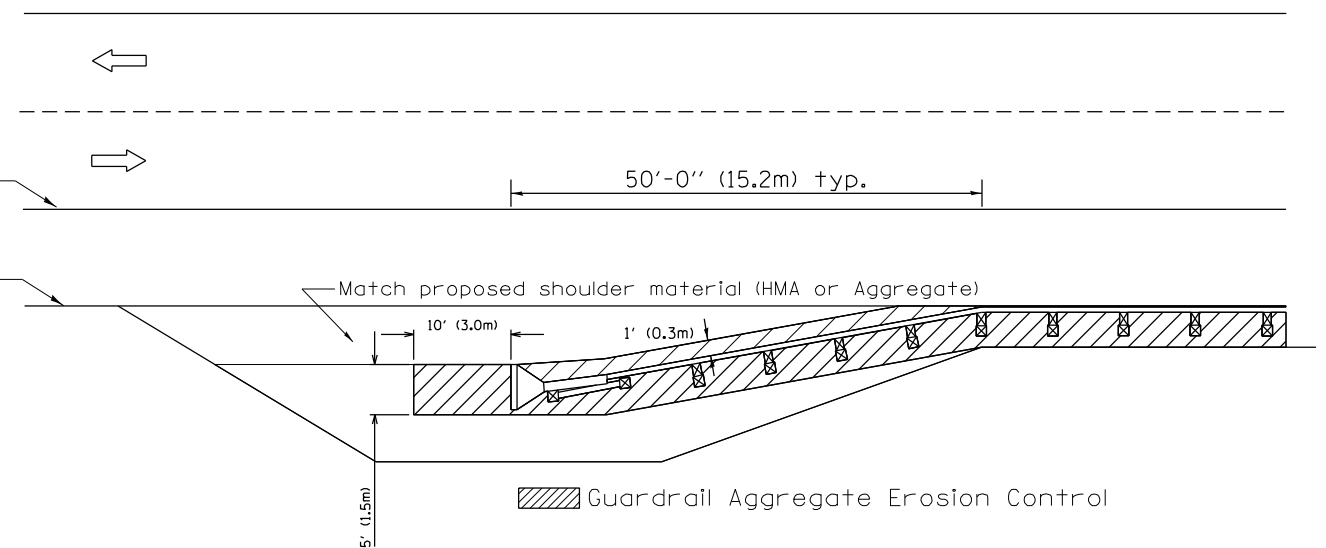
TYPICAL SECTION WITH COMBINATION CONCRETE CURB & GUTTER



TYPICAL SECTION WITHOUT 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.



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

03-07-11	ADDED DETAIL SHOWING PLAN VIEW	R.D.	5-30-18	CHANGE B CURB TO CC&G	R.D.
08-10-12	REVISED CURB "B" AND AGGREGATE	R.D.	07-16-19	SPELLING CORRECTIONS	R.D.
07-15-15	ADDRESSED SHOULDER INLET CURB	R.D.			
01-26-17	REVISED	R.D.			

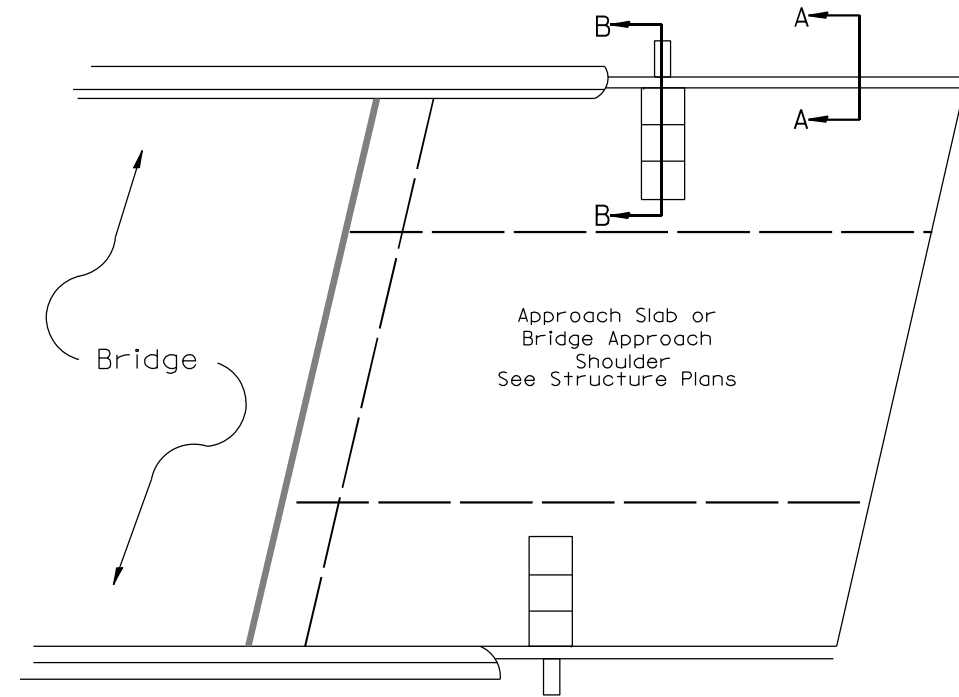
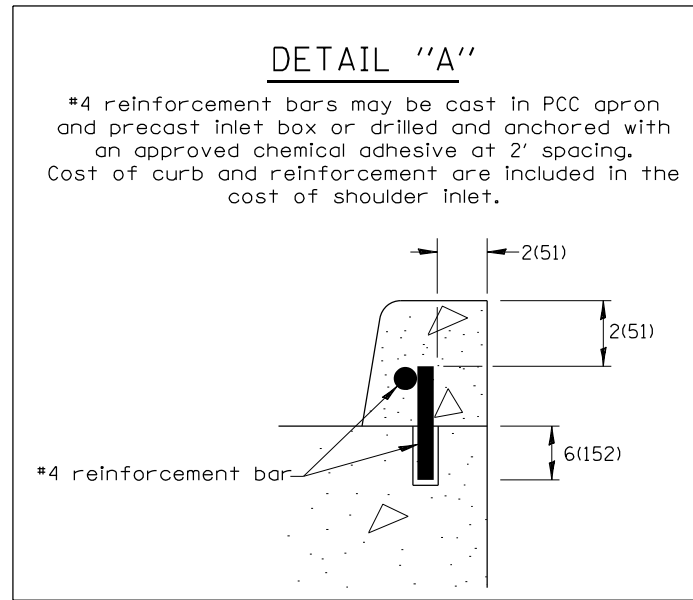
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

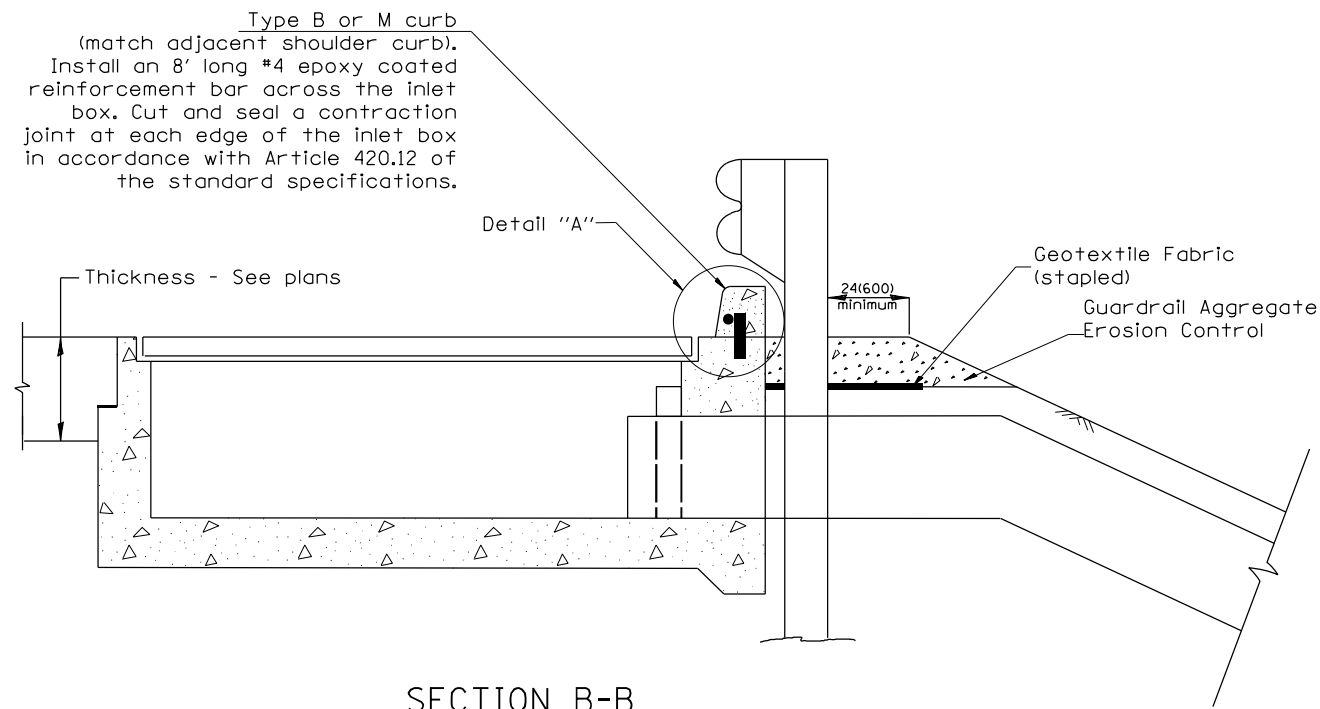
GUARDRAIL EROSION CONTROL TREATMENTS

SHT. 1 OF 2
CADD STD. 630101-D4

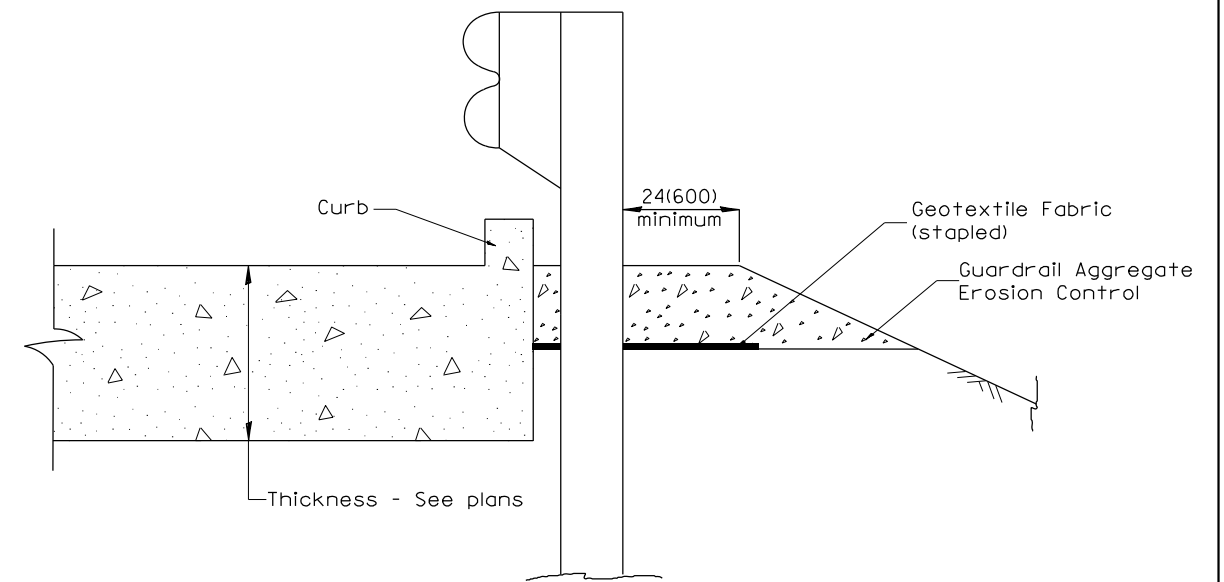
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	45(RB)BR	PEORIA	86	83
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68E48	



PLAN VIEW
APPROACH SLAB OR SHOULDER PLACEMENT



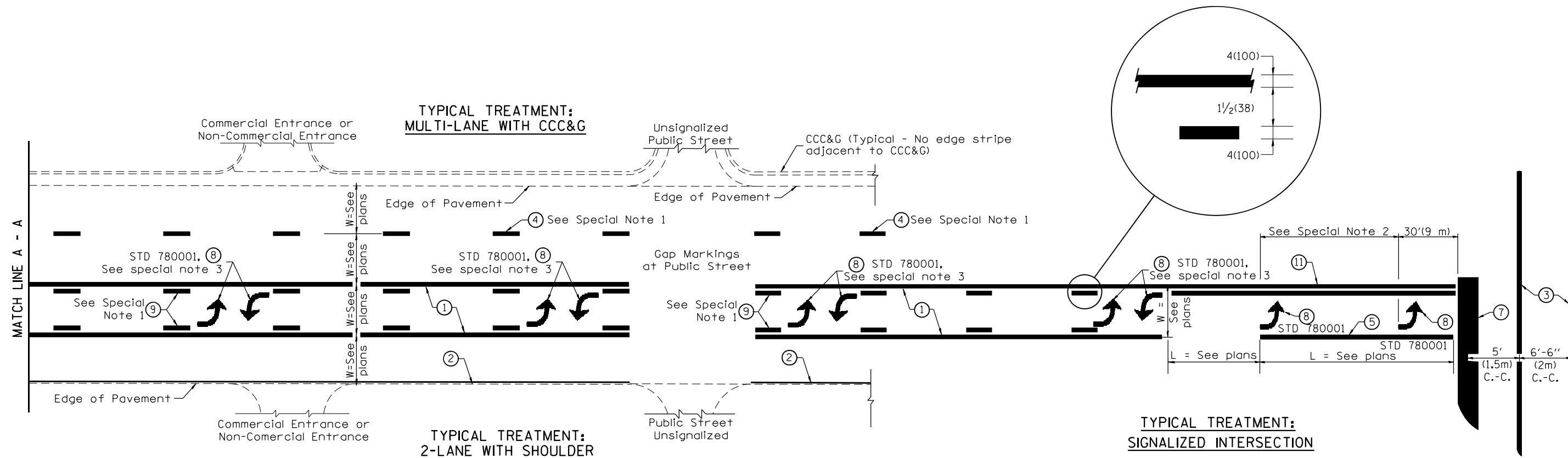
SECTION B-B
TYPICAL SECTION AT INLETS
TYPE E, F & G (HIGHWAY STANDARD 610001)



SECTION A-A
TYPICAL SECTION WITH BRIDGE APPROACH CURB

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

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				GUARDRAIL EROSION CONTROL TREATMENTS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				NOT TO SCALE				317	45(RB)BR	PEORIA	86	84
				SHT. 2 OF 2 CADD STD. 630101-D4				CONTRACT NO. 68E48				
								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION

TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- ① 4(100) Solid (Yellow)
- ② 4(100) Solid (White)
- ③ 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)
2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
- ④ 6(150) Skip-Dash (White) (See Special Note 1)
- ⑤ 8(200) Solid (White)
- ⑥ 12(300) Diagonal (White) (Item ⑥ is shown on Std. 780001)
- ⑦ 24(600) Stop Bar (White)
- ⑧ Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- ⑨ 4(100) Skip-Dash (Yellow) (See Special Note 1)
- ⑩ 12(300) Diagonal (Yellow) (See Table A) (See Table A)
- ⑪ 4(100) Double Solid (Yellow) (See Table A)

SPECIAL NOTES

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
 - A. A minimum of two (2) arrows is required.
 - B. The maximum spacing between arrows is 80' (24 m).
 - C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
 - A. A minimum of two (2) arrow pairs is required.
 - B. The maximum spacing between arrow pairs is 200' (61 m).
 - C. Arrow pairs shall be evenly spaced if three (3) or more are required.
 - D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

GENERAL NOTES

1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.
3. Refer to Article 780.13 for letter, number and symbol areas (sq. ft.)
4. Areas are grooved 1" beyond each edge for the following symbols:
Through Arrow= 14.8 sq. ft.
Large Left or Right Arrow= 21.9 sq. ft.
2 Arrow Combination Left (or Right) and Through= 34.9 sq. ft.
Wrong Way Arrow= 29.5 sq. ft.
Railroad Crossing Symbol= 69.8 sq. ft.
(For further information, refer to BDE Special Provision: Grooving for Recessed Pavement Markings)

01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT MARKINGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.	2/29/16	ADDED GROOVING AREAS	R.D.			317	45(RB)BR	PEORIA	86	85
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.	07-16-19	SPELLING CORRECTIONS	R.D.					CONTRACT NO. 68E48		
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.								SHT. 1 OF 2 CADD STD. 780001-D4		

NOT TO SCALE

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

