

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
74	172-3101 BRR; 130 RS-6	PEORIA	83	1
CONTRACT NO. 68C57				

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES AND COMMITMENTS
- 3-10 SUMMARY OF QUANTITIES
- 11 TYPICAL SECTIONS
- 12-15 SCHEDULE OF QUANTITIES
- 16 ALIGNMENT, TIES AND BENCHMARKS
- 17-19 ROADWAY PLAN AND PROFILE
- 20 DETOUR PLAN
- 21-23 TRAFFIC CONTROL I-74
- 24 EROSION CONTROL PLAN
- 25-27 LIGHTING PLANS
- 28-30 REMOVAL PLAN AND PROFILE
- 31-63 STRUCTURE PLANS
- 64-70 EXISTING BRIDGE PLANS
- 71-78 DISTRICT STANDARDS
- 79 ROADWAY MEDIAN DETAIL
- 80-83 CROSS SECTIONS

SHEETS PREPARED BY IDOT

LIST OF STANDARDS

000001-07	606001-07	701006-05	701402-12	782001-01	406101-D4
001001-02	630001-12	701011-04	701411-09	814001-03	440001-D4
001006	630301-09	701101-05	701451-05	821101-02	630101-D4
280001-07	631031-15	701106-02	701901-08	825011-04	780001-D4
420401-13	635001-02	701400-09	704001-08	8LR21-9	
515001-03	701001-02	701401-12	780001-05		

BELL SCHOOL RD (CH34)

FUNCTIONAL CLASSIFICATION:
MINOR ARTERIAL
2012 ADT=2,050
2032 ADT=1,965
MU%=7.3%; SU=3.4%

PROJECT IS LOCATED IN
BRIMFIELD TOWNSHIP IN
UNINCORPORATED PEORIA COUNTY



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: CHRISTOPHER MAUSHARD (309)-671-3453
PROJECT MANAGER: MIKE MOHAMED (309)-671-3462

CONTRACT NO. 68C57
CATALOG NO. 035265-00D

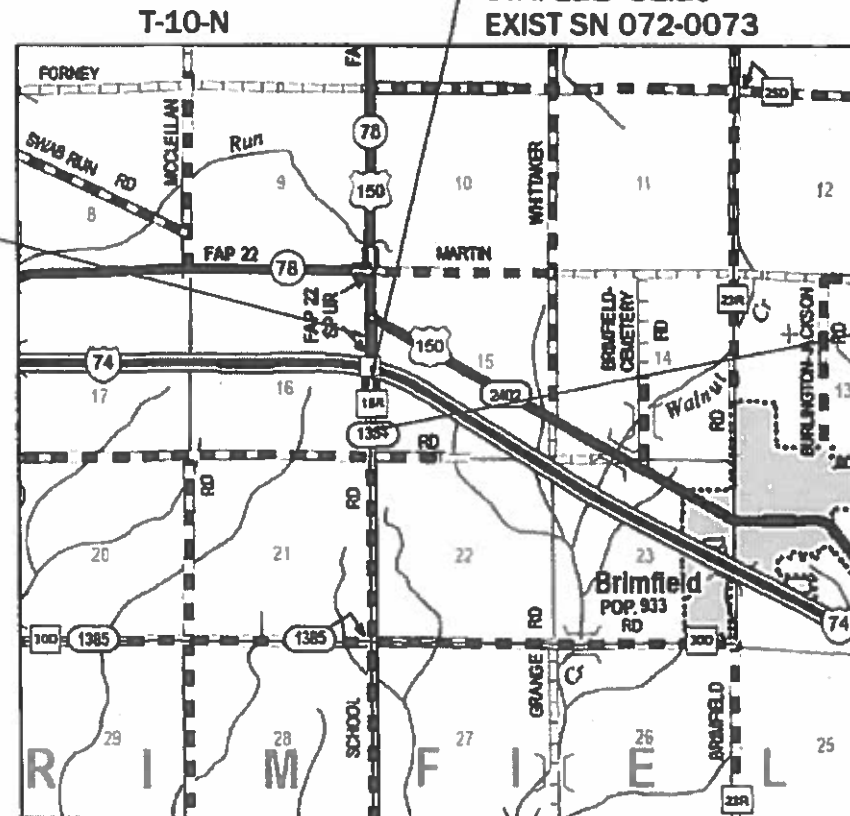
**PROPOSED
HIGHWAY PLANS**

FAI 74 (I-74), FAP 22, FAS 1384 (IL 78)
SECTION (72-3HB) BRR; 130 RS-6
PROJECT NHPP-STP-4EWZ (067)
BRIDGE SUPERSTRUCTURE REPLACEMENT
PEORIA COUNTY

C-94-076-15

BRIDGE SUPERSTRUCTURE REPLACEMENT

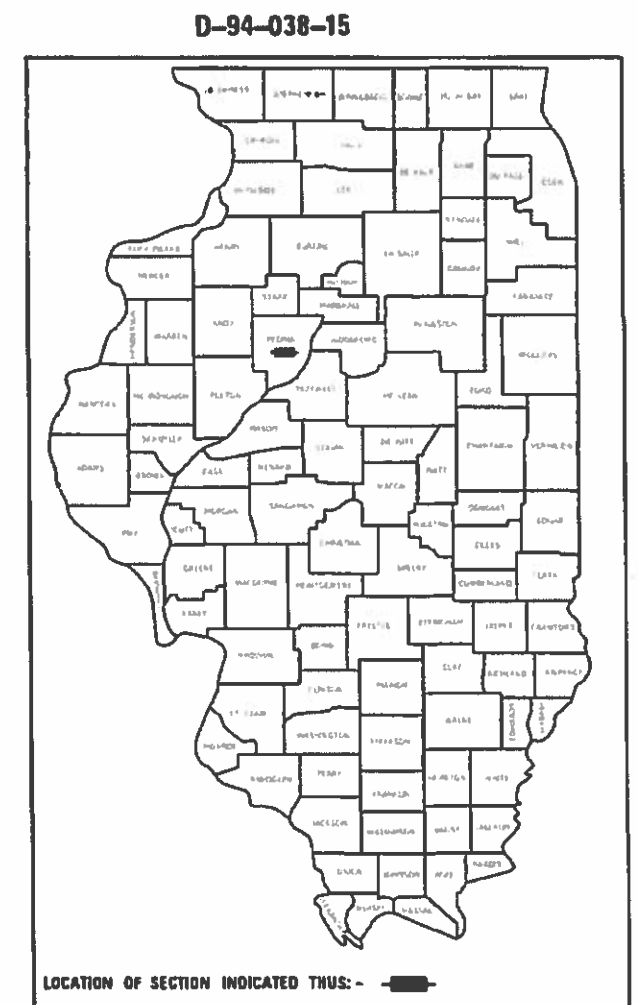
STA. 121+81.29
EXIST SN 072-0073



PROJECT ENDS
STA. 133+27.00
BELL SCHOOL RD.



Stanley J. Feardy
LICENSE EXPIRES 11-30-2019
THE UPCHURCH GROUP, INC.
MATTOON, ILLINOIS 61938



PROJECT DESCRIPTION:
REMOVE AND REPLACE EXISTING BRIDGE
SUPERSTRUCTURE AND ABUTMENTS.
REMOVE AND REPLACE HMA SURFACE COURSE ON
BRIDGE APPROACHES.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED June 28, 2019
Kenneth A. Barnett, P.E.
REGION THREE ENGINEER

Aug 16, 2019
EA, EIC
ENGINEER OF DESIGN AND ENVIRONMENT

Aug 16, 2019
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS**

GENERAL NOTES

PLAN ELEVATIONS - NORTH AMERICAN VERTICAL DATUM OF 1988
 ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON N.A.V.D. 88.

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

PAVEMENT STATION NUMBERS & PLACEMENT
 THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS REQUIRED TO IMPRINT PAVEMENT STATION NUMBERS IN THE FINISHED SURFACE OF THE PAVEMENT AND/OR OVERLAY. THE NUMBERS SHALL BE APPROXIMATELY 3/4 INCH (20 MM) WIDE, 5 INCHES (125 MM) HIGH AND 5/8 INCH (15 MM) DEEP.

THE PAVEMENT STATION NUMBERS SHALL BE INSTALLED AS SPECIFIED HEREIN:

INTERVAL - 200 FEET (ENGLISH STATIONING) OR 100 METERS (METRIC STATIONING)

BOTTOM OF NUMBERS - 6 INCHES (150 MM) FROM THE INSIDE EDGE OF THE PAVEMENT MARKING

LOCATION:
 - 2, 3, & 5 LANE PAVEMENTS - RIGHT EDGE OF PAVEMENT IN DIRECTION OF INCREASING STATIONS
 - MULTI-LANE DIVIDED ROADWAYS - OUTSIDE EDGE OF PAVEMENT IN BOTH DIRECTIONS
 - RAMPS - ALONG BASELINE EDGE OF PAVEMENT

POSITION - STATIONS SHALL BE PLACED SO THEY CAN BE READ FROM THE ADJACENT SHOULDER

FORMAT - ENGLISH PAVEMENT STATIONS SHALL USE THIS FORMAT XXX+00, WHERE X REPRESENTS THE PAVEMENT STATION

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE ASSOCIATED PAVEMENT AND/OR OVERLAY PAY ITEMS.

BUTT JOINT CUTTING TIME RESTRICTION
 BUTT JOINTS SHALL NOT BE MILLED MORE THAN THREE (3) DAYS PRIOR TO PLACEMENT OF THE HMA SURFACE COURSE.

CROSSING EXISTING STRUCTURES WITH EQUIPMENT
 THE FOLLOWING STRUCTURES, SN048-0044, SN048-0049, MAY BE CROSSED WITH THE EMPTY MTD. ANY STRUCTURES NOT LISTED ABOVE SHALL BE VERIFIED BY THE RESIDENT PRIOR TO BEGINNING WORK.

MEDIAN AND ISLAND NOSES
 WHEN CONSTRUCTING MEDIAN AND ISLAND NOSES THE FOLLOWING CRITERIA SHOULD BE FOLLOWED:
 - BARRIER CURB SHALL BE USED TO CONSTRUCT NOSES WHEN THE MEDIAN OR ISLAND SURROUNDS A MAST ARM OR OTHER NON-BREAKAWAY FOUNDATION.
 - RAMPED NOSES SHALL BE USED ON MEDIANS OR ISLANDS WITH BREAKAWAY POSTS.

SIGN POST HOLES
 VERTICAL HOLES SHALL BE CONSTRUCTED IN THE ISLAND PAVEMENT AND/OR CONCRETE MEDIAN OF THE TYPE SPECIFIED OR CONCRETE MEDIAN SURFACE 4 INCHES (100 MM). THE HOLES SHALL BY 24 INCHES (600 MM) IN DIAMETER OR 24 INCHES (600 MM) SQUARE AND THEY SHALL BE FREE OF ANY OBSTRUCTION, EXCEPT EARTH, FOR A DEPTH OF 5 FEET (1.5 M) AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ANY HOLES NOT USED FOR THE PLACEMENT OF SIGNS SHALL BE FILLED AND COMPACTED FLUSH WITH THE TOP OF THE ISLAND PAVEMENT, CONCRETE MEDIAN OF THE TYPES SPECIFIED, OR CONCRETE MEDIAN SURFACE 4 INCHES (100 MM). THE TOP 3 INCHES (75 MM) OF SAID COMPACTED FILL SHALL CONSIST OF A HOT-MIX ASPHALT MIXTURE. ALL HOLES IN WHICH THE SIGN POSTS ARE INSTALLED AT THE TIME OF THIS CONTRACT SHALL BE SIMILARLY FILLED.

THIS WORK, INCLUDING ANY REQUIRED PAVEMENT REMOVAL NECESSARY TO CONSTRUCT THE SIGN POST HOLES, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR ISLAND PAVEMENT AND/OR CONCRETE MEDIAN OF THE TYPE SPECIFIED, OR CONCRETE MEDIAN SURFACE, 4 INCHES (100 MM).

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

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 (CULTURAL AND NATURAL RESOURCES REVIEW OF BORROW AREAS)
 - 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.

POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) RATES

Surface Type	Residual Rate
Milled (HMA or PCC)	0.08 lb / sq ft
Existing Pavement	0.04 lb / sq ft
Fog Coat (between lifts)	0.04 lb / sq ft

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

COMMITMENTS

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.

COORDINATE WITH THE PEORIA COUNTY HIGHWAY DEPARTMENT TO OVERLAY BELL SCHOOL ROAD.

PROJECT SPECIFIC GENERAL NOTES

THE LOCATION OF THE RIGHT OF WAY LINES SHOWN ON THESE PLANS WAS DETERMINED USING RIGHT OF WAY PLANS PROVIDED BY IDOT AND FROM THE LOCATIONS OF RIGHT OF WAY MARKERS FOUND IN THE FIELD. THE RIGHT OF WAY LINES WERE NOT DETERMINED BY ACTUAL BOUNDARY OR RIGHT OF WAY SURVEYS.

ALL PERMANENT SURVEY MARKERS THAT ARE PLACED WITHIN THE LIMITS OF THE PAVEMENT SHALL BE INSTALLED 1/4" BELOW THE FINISH GRADE OF THE PAVEMENT

FOR THE DISK SET ON THE BRIDGE AT STA 120+62.7, 29.5' RT. THE ELEVATION SHALL BE RUN TO THE DISK. VERIFIED. STAMPED AND A MEMO SENT TO THE CHIEF OF SURVEYS/PLATS DETAILING THE LOCATION OF THE DISK AND THE ELEVATION.

STATUS OF UTILITIES

THE FOLLOWING IS A LIST OF UTILITIES WITH POTENTIAL FACILITY CONFLICT WITHIN THE LIMIT OF THE PROJECT:

IDOT DISTRICT 4 ROADWAY LIGHTING

HMA MIXTURE REQUIREMENT TABLE:

MIXTURE USES:	POLYMERIZED HMA SURFACE N50 (1.5")	HMA SHOULDER 1 1/2"
FG:	SBS OR SBR 76-28	PG 64-22
DESIGN AIR VOIDS:	4.0% N = 50	4.0% N = 50
MIXTURE COMPOSITIONS: (MIXTURE GRADATIONS)	IL-9.5	IL-9.5
FRICITION AGGREGATE:	MIX "D"	MIX "C"
QUALITY MANAGEMENT PROGRAM:	OC/OA	OC/CA

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(72-3HB)BR: 130 RS-6	PEORIA	83	2
CONTRACT NO. 68C57				
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				90% FED		80% FED	
				10% STATE		20% COUNTY	
				ROADWAY		ROADWAY	
				0013		0005	
20200100	EARTH EXCAVATION	CU YD	100	100			
* 20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	20	20			
21101625	TOPSOIL FURNISH & PLACE, 6"	SQ YD	756	756			
25000210	SEEDING, CLASS 2A	ACRE	0.25	0.25			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	14	14			
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	14	14			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	14	14			
** 25000750	MOWING	ACRE	29.5	29.5			
25100115	MULCH, METHOD 2	ACRE	0.25	0.25			
25100630	EROSION CONTROL BLANKET	SQ YD	756	756			
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	16	16			
28000305	TEMPORARY DITCH CHECKS	FOOT	40	40			
28000400	PERIMETER EROSION BARRIER	FOOT	426	426			
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	7579	6936		643	

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74	(72-3HB)Rt 130 RS-6	PEORIA	83	3
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				ROADWAY		ROADWAY	
				0013		0005	
40600982	HOT - MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	345	310		35	
40603535	POLYMERIZED HOT - MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	651	576		75	
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	276	276			
44000100	PAVEMENT REMOVAL	SQ YD	17	17			
44000155	HOT - MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	10541	9648		893	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	893	445		448	
44003100	MEDIAN REMOVAL	SQ FT	1904	1501		403	
44004250	PAVED SHOULDER REMOVAL	SQ YD	269	269			
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	185	185			
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	185	185			
48101200	AGGREGATE SHOULDERS, TYPE B	TON	27	5		22	
48203003	HOT - MIX ASPHALT SHOULDERS, 1 1/2"	SQ YD	2784	2784			
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	1			
50104650	SLOPE WALL REMOVAL	SQ YD	657	657			

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F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				90% FED		80% FED	
				10% STATE		20% COUNTY	
				ROADWAY		ROADWAY	
				0013		0005	
50157300	PROTECTIVE SHIELD	SQ YD	901	901			
50200100	STRUCTURE EXCAVATION	CU YD	56	56			
50300225	CONCRETE STRUCTURES	CU YD	108.5	108.5			
50300255	CONCRETE SUPERSTRUCTURE	CU YD	515.8	515.8			
50300260	BRIDGE DECK GROOVING	SQ YD	1067	1067			
50300300	PROTECTIVE COAT	SQ YD	1977	1977			
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	159.6	159.6			
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1			
50500505	STUD SHEAR CONNECTORS	EACH	10098	10098			
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	195570	195570			
51100100	SLOPE WALL 4 INCH	SQ YD	599	599			
51201610	FURNISHING STEEL PILES HP 12 X 63	FOOT	850	850			
51202305	DRIVING PILES	FOOT	850	850			
51203610	TEST PILE STEEL HP 12 X 63	EACH	1	1			

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				90% FED 10% STATE		80% FED 20% COUNTY	
				ROADWAY 0013		ROADWAY 0005	
51500100	NAME PLATES	EACH	2	2			
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE 1	EACH	27	27			
52100520	ANCHOR BOLTS, 1"	EACH	90	90			
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	166	166			
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	96	96			
60603500	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06	FOOT	700	252		448	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	12	12			
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	90	90			
60619200	CONCRETE MEDIAN, TYPE SB-6.06	SQ FT	403			403	
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	350	350			
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4			
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4			
63200310	GUARDRAIL REMOVAL	FOOT	151	151			
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1	1			

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REV. 7/31/19

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				90% FED 10% STATE		80% FED 20% COUNTY	
				ROADWAY		ROADWAY	
				0013		0005	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9			
67100100	MOBILIZATION	L SUM	1	1			
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	30	30			
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	330	330			
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	42	42			
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1			
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	628	628			
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	530	530			
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	18020	18020			
70400100	TEMPORARY CONCRETE BARRIER	FOOT	800	800			
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	800	800			
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2			
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2			
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4	4			

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				ROADWAY		ROADWAY	
				0013		0005	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4			
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	188	188			
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	8177	7036		1141	
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	438	438			
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	168	168			
* 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	64	64			
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	8			
* 78200020	CURB REFLECTORS	EACH	23	7		16	
* 80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1			
* 81028320	UNDERGROUND CONDUIT, PVC, 1"DIA.	FOOT	100	100			
* 81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	185	185			
* 81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2	2			
* 81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	4275	4275			
* 82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	14	14			

*= SPECIALTY ITEM

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 PROJECT: ...
 DISTRICT: ...
 DOCUMENTS: ...
 SHEETS: ...

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PLOT SCALE =	CHECKED - HJS	REVISED -
PLOT DATE = JUNE 25, 2019	DATE - JUNE 25, 2019	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3H)BR4 130 RS-6	PEORIA	83	8
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				90% FED 10% STATE		80% FED 20% COUNTY	
				ROADWAY		ROADWAY	
				0013		0005	
* 82500340	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 480VOLT, 60AMP	EACH	1	1			
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1438	1438			
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1			
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	6000	6000			
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	96	96			
* X7830068	GROOVING FOR RECESSED PAVEMNT MARKING, LETTERS, NUMBERS AND SYMBOLS	SQ FT	263	263			
* X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	8178	7037		1141	
* X7830076	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	438	438			
* X7830078	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	168	168			
* X7830090	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	64	64			
* X8210402	LUMINAIRE MOUNTING BRACKET - SPECIAL	EACH	4	4			
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	127	127			
Z0003617	REMOVAL OF EXISTING SUB-STRUCTURES	EACH	2	2			
Z0004552	APPROACH SLAB REMOVAL	SQ YD	268	268			

*= SPECIALTY ITEM

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3H)BR+ 130 RS-6	PEORIA	83	9
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				

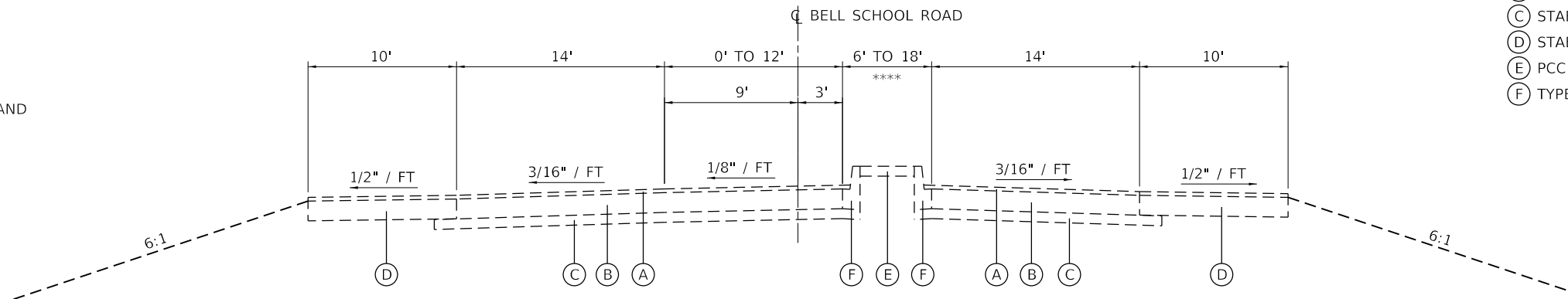
** SEE STANDARD 420401 & SHEET \$RDBOR
ADDITIONAL DETAILS OF BRIDGE APPROACH
PAVEMENT CONNECTOR

*** PROPOSED GUARDRAIL AND TRAFFIC BARRIER TERMINALS
RT. 118+36.93 - RT. 120+49.31
LT. 119+75.24 - LT. 120+62.70
RT. 123+01.56 - RT. 123+89.02
LT. 123+14.95 - LT. 125+27.33

**** MEDIAN OMISSION FROM
STA. 115+15.54 TO STA. 115+77.18 AND
STA. 128+03.04 TO STA. 128+47.14

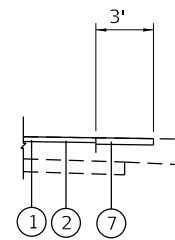
EXISTING

- (A) HMA OVERLAY (DEPTH UNKNOWN)
- (B) PCC PAVEMENT, 8"
- (C) STABILIZED SUBBASE (BAM), 4"
- (D) STABILIZED SHOULDER, 8"
- (E) PCC MEDIAN SURFACE, 4"
- (F) TYPE B-6.12 CURB AND GUTTER



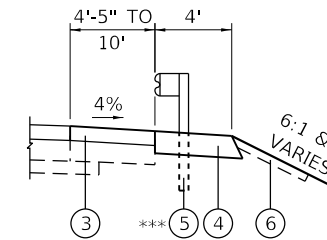
EXISTING TYPICAL SECTION

STA. 113+92 TO STA. 120+18.49 (SHOWN)
STA. 123+45.77 TO STA. 133+27 (REVERSE)



AGGREGATE SHOULDER

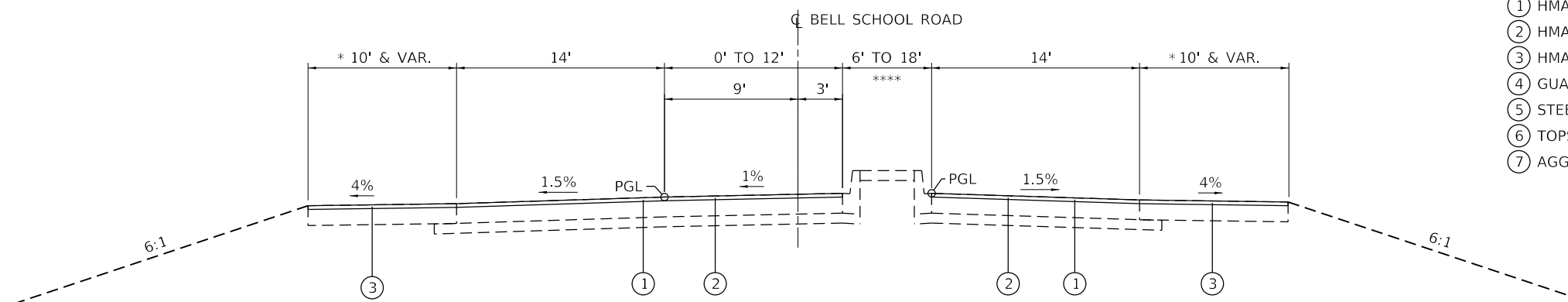
STA. 129+73.19 TO STA. 133+27



DETAIL AT GUARDRAIL

PROPOSED

- (1) HMA SURFACE REMOVAL, 1 1/2"
- (2) HMA SURFACE COURSE, 1 1/2"
- (3) HMA SHOULDER, 1 1/2"
- (4) GUARDRAIL AGGREGATE EROSION CONTROL, 8"
- (5) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (6) TOPSOIL FURNISH AND PLACE
- (7) AGGREGATE SHOULDER, 2"



PROPOSED TYPICAL SECTION

STA. 113+92 TO STA. 120+18.49 (SHOWN)
STA. 123+45.77 TO STA. 133+27 (REVERSE)

* SEE DETAIL AT GUARDRAIL FOR SHOULDER
WIDTH ADJACENT TO GUARDRAIL

NOTE:

SEE PLAN AND CROSS SECTIONS FOR TREATMENT OUTSIDE SHOULDER LIMITS.

** BRIDGE APPROACH PAVEMENT CONNECTOR
(FROM STA. 120+18.49 - STA. 120+40.41 & STA. 123+23.85 - STA. 123+45.77)

SEE THE BRIDGE PLANS FOR BRIDGE APPROACH SLAB DETAILS.
(STA. 120+40.41 - STA. 120+70.41 AND STA. 122+93.85 - STA. 123+23.85)

BRIDGE OMISSION FROM STA. 120+70.41 TO STA. 122+93.85

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
BELL SCHOOL ROAD OVER I-74**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BR	PEORIA	83	11
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				

REMOVAL SCHEDULE							
STATION TO STATION		LT / RT	PAVEMENT REMOVAL	MEDIAN REMOVAL	PAVED SHOULDER REMOVAL	GUARDRAIL REMOVAL	APPROACH SLAB REMOVAL
			SQ YD	SQ FT	SQ YD	FOOT	SQ YD
118+62.00	119+00	RT			3.6		
119+00	120+59.84	RT			61.2		
119+70.92	120+72.29	LT			70.8		
120+18.49	120+24.00	LT	9.1				
120+24.00	120+70.94	LT					70.4
120+18.49	120+63.02	RT					63.7
120+15.49	120+64.23	LT/RT		750.6			
119+71.9	120+46.68	RT				75.1	
123+17.84	123+92.90	LT				75.4	
122+99.21	123+48.77	LT/RT		750.1			
122+93.52	123+41.00	RT					69.0
123+01.30	123+45.77	LT					64.6
123+41.00	123+45.77	RT	7.4				
122+92.12	123+93.34	RT			77.1		
123+04.62	125+00	LT			56.4		
132+32	133+66	LT/RT		402.6			
TOTALS			16.5	1903.3	269.1	150.5	267.7

CURB AND GUTTER REMOVAL			
STATION	STATION	LT/RT	COMBINATION CURB AND GUTTER REMOVAL
			FOOT
120+15.49	120+65.21	LT	49.9
120+15.49	120+65.21	RT	46.1
122+99.27	123+48.77	LT	46.2
122+99.27	123+48.77	RT	50.5
129+16.00	130+42.00	LT/RT	252.0
130+42	132+66	LT/RT	448.0
SUB-TOTALS			892.7

BUTT JOINT REMOVAL			
STATION	STATION	LT/RT	HOT - MIX ASPHALT SURFACE REMOVAL BUTT JOINT
			SQ YD
113+92	114+02	LT/RT	76.2
RAMP	115+00	LT	59.6
RAMP	115+00	RT	50.5
RAMP	128+50	RT	67.8
RAMP	128+50	LT	55.0
133+17	133+27	LT/RT	35.0
TOTALS			344.1

HMA SURFACE COURSE REMOVAL SCHEDULE					
STATION TO STATION		LT / RT	LENGTH	WIDTH	HOT-MIX ASPHALT SURFACE COURSE REMOVAL, 1-1/2"
			FOOT	FOOT	SQ YD
113+92	116+00	LT/RT	VAR	VAR	1068.2
113+92	116+00	LT/RT	SHOULDERS		558.6
RAMP	115+00	LT	VAR	VAR	278.0
RAMP	115+00	RT	VAR	VAR	232.7
116+00	119+00	LT	300.0	24	800.0
116+00	118+53.52	LT	253.5	12	338.0
118+53.52	119+00	LT	46.0	VAR	54.0
116+00	119+00	RT	300.0	14	466.7
116+00	118+62.00	RT	262.0	10	291.1
118+62.00	119+00	RT	38.0	VAR	40.6
119+00	119+70.92	LT	71.0	10	78.9
119+70.92	120+18.49	LT	47.6	VAR	30.5
119+00	120+18.49	LT	118.5	14	184.3
119+00	120+18.49	LT	118.5	VAR	64.3
119+00	120+18.49	RT	118.5	14	184.3
119+00	120+18.49	RT	118.5	VAR	82.5
123+45.77	123+93.34	RT	47.6	VAR	28.0
123+93.34	125+00	RT	106.7	10	118.5
123+45.77	125+00	RT	154.2	14	239.9
123+45.77	125+00	RT	154.2	VAR	85.1
123+45.77	125+00	LT	154.2	14	239.9
123+45.77	125+01	LT	154.2	VAR	123.8
125+00	128+00	LT	300.0	10	333.4
125+00	128+00	LT	300.0	14	466.7
125+00	128+00	RT	300.0	10	333.4
125+00	128+00	RT	300.0	14	466.7
125+00	128+00	RT/LT	300.0	VAR	390.7
128+00	130+42	RT/LT	VAR	VAR	1086.9
128+00	129+90	RT/LT	SHOULDERS		439.5
RAMP	128+50	RT	VAR	VAR	288.7
RAMP	128+50	LT	VAR	VAR	253.7
130+42	133+27	RT	VAR	VAR	420.7
130+43	133+27	LT	VAR	VAR	472.1
TOTALS					10540.1

* FUND CODE 0005

GUARDRAIL SCHEDULE									
LOCATION		STATION TO STATION	LT / RT	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)	GUARDRAIL REFLECTORS, TYPE A	TERMINAL MARKERS - DIRECT APPLIED	GUARDRAIL AGGREGATE EROSION CONTROL
				FOOT	EACH	EACH	EACH	EACH	TON
118+00.95	120+48.71	RT		150.0			4		46.7
119+70.92	120+62.10	LT		25.0					16.8
123+02.16	123+93.34	RT		25.0					16.8
123+15.55	125+63.31	LT		150.0			4		46.7
120+11.82	120+49.31	RT			1				
120+25.21	120+62.70	LT			1				
123+01.56	123+39.05	RT			1				
123+14.95	123+52.44	LT			1				
118+36.93	118+61.92	RT				1		1	
119+75.24	120+00.22	LT				1		1	
123+64.04	123+89.02	RT				1		1	
125+02.34	125+27.33	LT				1		1	
TOTALS				350	4	4	8	4	127

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
BELL SCHOOL ROAD OVER I-74			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR; 130RS-6	PEORIA	83	12
CONTRACT NO. 68C57				
ILLINOIS		FED. AID PROJECT		

PAVEMENT SCHEDULE

STATION TO STATION		LT / RT	LENGTH	WIDTH	POLYMERIZED BITUMINOUS MATERIAL TACK COAT	POLYMERIZED HMA SURFACE COURSE, MIX "D", N50	HMA SHOULDERS, 1½"	
								FOOT
113+92	116+00	LT/RT	VAR	VAR	941.8	89.7		
113+92	116+00	LT/RT	SHOULDERS					558.6
RAMP	115+00	LT	VAR	VAR	326.3	23.3		
RAMP	115+00	RT	VAR	VAR	270.9	19.6		
116+00	119+00	LT	300.0	10.0	240.0		333.3	
116+00	119+00	LT	300.0	14.0	336.0	39.2		
116+00	119+00	LT/RT	300.0	VAR	279.9	32.7		
116+00	119+00	RT	300.0	14.0	336.0	39.2		
116+00	118+63.92	RT	263.9	10.0	211.1		293.2	
118+63.92	119+00	RT	36.0	VAR	26.6		37.0	
119+00	119+70.92	LT	70.9	10.0	56.7		78.8	
119+70.92	120+18.49	LT	47.6	VAR	20.8		28.9	
119+00	120+18.49	LT	118.5	14.0	132.7	15.5		
119+00	120+18.49	LT	118.5	VAR	45.4	5.3		
119+00	120+18.49	RT	118.5	14.0	132.7	15.5		
119+00	120+18.49	RT	118.5	VAR	58.1		80.7	
123+45.77	125+00	LT	154.2	14.0	172.7	20.2		
123+45.77	125+00	LT	154.2	VAR	86.4		120.0	
123+45.77	125+00	RT	154.2	VAR	62.3	7.3		
123+45.77	125+00	RT	154.2	14.0	172.7	20.1		
123+45.77	123+93.34	RT	47.6	VAR	20.1		28.0	
123+93.34	125+00	RT	106.7	10.0	85.3		118.5	
125+00	128+00	LT	300.0	10.0	240.0		333.3	
125+00	128+00	LT	300.0	14.0	336.0	39.2		
125+00	128+00	LT/RT	300.0	VAR	279.5	32.7		
125+00	128+00	RT	300.0	14.0	336.0	39.2		
125+00	128+00	RT	300.0	10.0	240.0		333.3	
128+00	130+42	RT/LT	VAR	VAR	891.7	91.3		
128+00	129+90	RT/LT	SHOULDERS					439.5
RAMP	128+50	RT	VAR	VAR	318.6	24.3		
RAMP	128+50	LT	VAR	VAR	279.0	21.3		
130+42	133+27	RT	VAR	VAR	339.9	35.3		
130+43	133+27	LT	VAR	VAR	302.9	39.7		
TOTALS					7578.3	650.5	2783.2	

* FUND CODE 0005

TEMPORARY EROSION CONTROL SCHEDULE

STATION TO STATION		LT / RT	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER
			POUND	FOOT	FOOT
117+76.62	121+17.17	LT	4.4	10	74.3
119+70.92	121+14.17	RT	3.3	10	104.6
122+61.17	123+93.34	LT	3.4	10	111.4
122+46.65	125+86.96	RT	4.5	10	135.5
TOTALS			15.6	40	425.8

PAVEMENT CONNECTOR SCHEDULE

STATION TO STATION		LENGTH	WIDTH	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
				SQ YD
120+18.49	120+40.41	VAR	56.7	138.0
123+23.85	123+45.77	VAR	56.7	138.0
TOTALS				276

PERMANENT EROSION CONTROL SCHEDULE

STATION TO STATION		LT/RT	AREA	TOPSOIL FURNISH AND PLACE, 6"	SEEDING, CLASS 2	MULCH METHOD 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	EROSION CONTROL BLANKET
				SQ FT		SQ YD	ACRE	ACRE	POUND	POUND
117+76.62	120+97.57	RT	1925	213.9	0.04	0.04	4.0	4.0	4.0	213.9
119+70.92	121+14.17	LT	1459	162.1	0.03	0.03	3.0	3.0	3.0	162.1
122+48.67	123+93.34	RT	1472	163.6	0.03	0.03	3.0	3.0	3.0	163.6
122+65.27	125+86.96	LT	1940	215.6	0.04	0.04	4.0	4.0	4.0	215.6
TOTALS				755.1	0.16	0.16	14	14	14	755.1

TEMPORARY CONCRETE BARRIER

STATION TO STATION		LT / RT	TEMPORARY CONCRETE BARRIER	PINNING TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMP (NON-REDIRECT), TEST LEV 3	IMPACT ATTENUATORS, TEMP (NON-REDIRECT, NAR), TEST LEV 3	RELOCATE IMPACT ATTENUATORS, TEMP (NON-REDIRECT), TEST LEV 3
			FOOT	EACH	FOOT	EACH	EACH	EACH
65+50.00	67+50.00	RT	200.0		200.0			
65+50.00	66+50.00	RT	100.0		100.0			
66+50.00	67+50.00	RT	100.0	48	100.0			
66+40.00	68+40.00	LT	200.0		200.0			
66+40.00	67+40.00	LT	100.0	48	100.0			
67+40.00	68+40.00	LT	100.0		100.0			
65+50.00		RT				1	1	2
68+40.00		LT				1	1	2
TOTALS			800	96	800	2	2	4

THE CONTRACTOR SHALL MAINTAIN 2 FT. CLEARANCE BEHIND THE TEMPORARY CONCRETE BARRIER OR MAINTAIN 6 INCH CLEARANCE AND PIN THE TEMPORARY CONCRETE BARRIER

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USER NAME = [redacted]
 PLOT SCALE = 2,000' / 1" / in.
 PLOT DATE = 6/25/2019

DESIGNED -
 DRAWN - SAE
 CHECKED - MJS
 DATE - JUNE 25, 2019

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
 BELL SCHOOL ROAD OVER I-74**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BR; 130RS-6	PEORIA	83	13
CONTRACT NO. 68C57				
		ILLINOIS	FED. AID PROJECT	

EXCAVATION BALANCE						
STATION TO STATION	OFFSET	EARTH EXCAVATION (CUT)	STRUCTURE EXCAVATION	EARTH EXCAVATION ADJUSTED SHRINKAGE 25% EARTH	ENBANKMENT (FILL)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
		CU YD	CU YD	CU YD	CU YD	CU YD
NORTH ABUTMENT		#	28	21	0	21
SOUTH ABUTMENT		#	28	21	0	21
116+0	120+64.23	LT/RT	17.4	13	0	13
120+15.49	120+64.23	MEDIAN	32.3	24	0	24
123+00.18	123+48.77	MEDIAN	32.2	24	0	24
123+00.18	128+00	LT/RT	15.9	12	0	12
TOTALS			97.8	56.0	115.4	0.0

OTHER SCHEDULES			
STATION	STATION	CURB REFLECTORS	TUBULAR MARKER
		EACH	EACH
116+50	117+50		
126+50	127+50		
129+16	130+42	7	
* 130+42	133+27	16	
* 133+26	-		1.0
TOTALS		23	1

EXCAVATION OF EARTH NECESSARY TO PERFORM THE REMOVAL OF THE EXISTING BRIDGE ABUTMENTS AND BACKFILLING TO THE LEVEL OF THE GROUND SURFACE AS IT EXISTED BEFORE ANY EXCAVATION WAS MADE INCLUDED IN THE COST OF REMOVAL OF EXISTING SUB-STRUCTURES (SEE SPECIAL PROVISION)

* FUND CODE 0005

PERMANENT PAVEMENT MARKINGS AND GROOVING												
STATION	STATION	OFFSET	MODIFIED URETHANE PAVEMENT MARKING, LETTERS AND SYMBOLS	MODIFIED URETHANE PAVEMENT MARKING, LINE 4"	MODIFIED URETHANE PAVEMENT MARKING, LINE 8"	MODIFIED URETHANE PAVEMENT MARKING, LINE 12"	MODIFIED URETHANE PAVEMENT MARKING, LINE 24"	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS, NUMBERS AND SYMBOLS	GROOVING FOR RECESSED PAVEMENT MARKING 5"	GROOVING FOR RECESSED PAVEMENT MARKING 9"	GROOVING FOR RECESSED PAVEMENT MARKING 13"	GROOVING FOR RECESSED PAVEMENT MARKING 25"
			SQ FT	FOOT	FOOT	FOOT	FOOT	SQ FT	FOOT	FOOT	FOOT	FOOT
113+92	116+00	LT & RT		479.1					479.1			
116+00	119+00	LT & RT		1460.0					1460.0			
119+00	125+00	LT & RT		2420.0					2420.0			
125+00	128+00	LT & RT		1460.0					1460.0			
128+00	130+42	LT & RT		704.0					704.0			
* 130+42	133+27	LT & RT		1140.6					1141.0			
RAMPS	115+00	LT & RT	31.2	263.4	202.7	71.5	30.0	43.8	263.4	202.7	71.5	30.0
116+02	116+10	LT	15.6					21.9				
116+82	116+90	LT	15.6					21.9				
117+62	117+70	LT	15.6					21.9				
118+42	118+50	LT	15.6					21.9				
125+51	125+59	RT	15.6					21.9				
126+24	126+32	RT	15.6					21.9				
126+97	127+05	RT	15.6					21.9				
127+70	127+78	RT	15.6					21.9				
RAMPS	128+50	LT & RT	31.2	249.7	235.0	95.9	34.0	43.8	249.7	235.0	95.9	34.0
TOTALS			187.2	8176.8	437.7	167.4	64.0	262.8	8177.2	437.7	167.4	64.0

MODEL: Default
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 DRAWN - SAE
 CHECKED - MJS
 DATE - JUNE 25, 2019
 PLOT SCALE = 2,0000' / in.
 PLOT DATE = 6/25/2019

REVISED - [redacted]
 REVISED - [redacted]
 REVISED - [redacted]
 REVISED - [redacted]

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
 BELL SCHOOL ROAD OVER I-74

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR; 130RS-6	PEORIA	83	14

CONTRACT NO. 68C57

ILLINOIS FED. AID PROJECT

CURB AND GUTTER & MEDIAN						
STATION	STATION	LT/RT	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	CONCRETE MEDIAN SURFACE, 4 INCH	CONCRETE MEDIAN, TYPE SB- 6.06
			FOOT	FOOT	SQ FT	SQ FT
120+15.49	120+18.49	LT		3.0	20.6	
120+15.50	120+18.50	RT		3.0	23.8	
123+45.77	123+48.77	LT		3.0	23.3	
123+45.78	123+48.77	RT		3.0	21.6	
129+16	130+42	LT/RT	252.0			
* 130+42	132+66	LT/RT	448.0			
* 132+66	133+26	LT/RT				402.6
TOTAL			700	12	90	402.6

* FUND CODE 0005

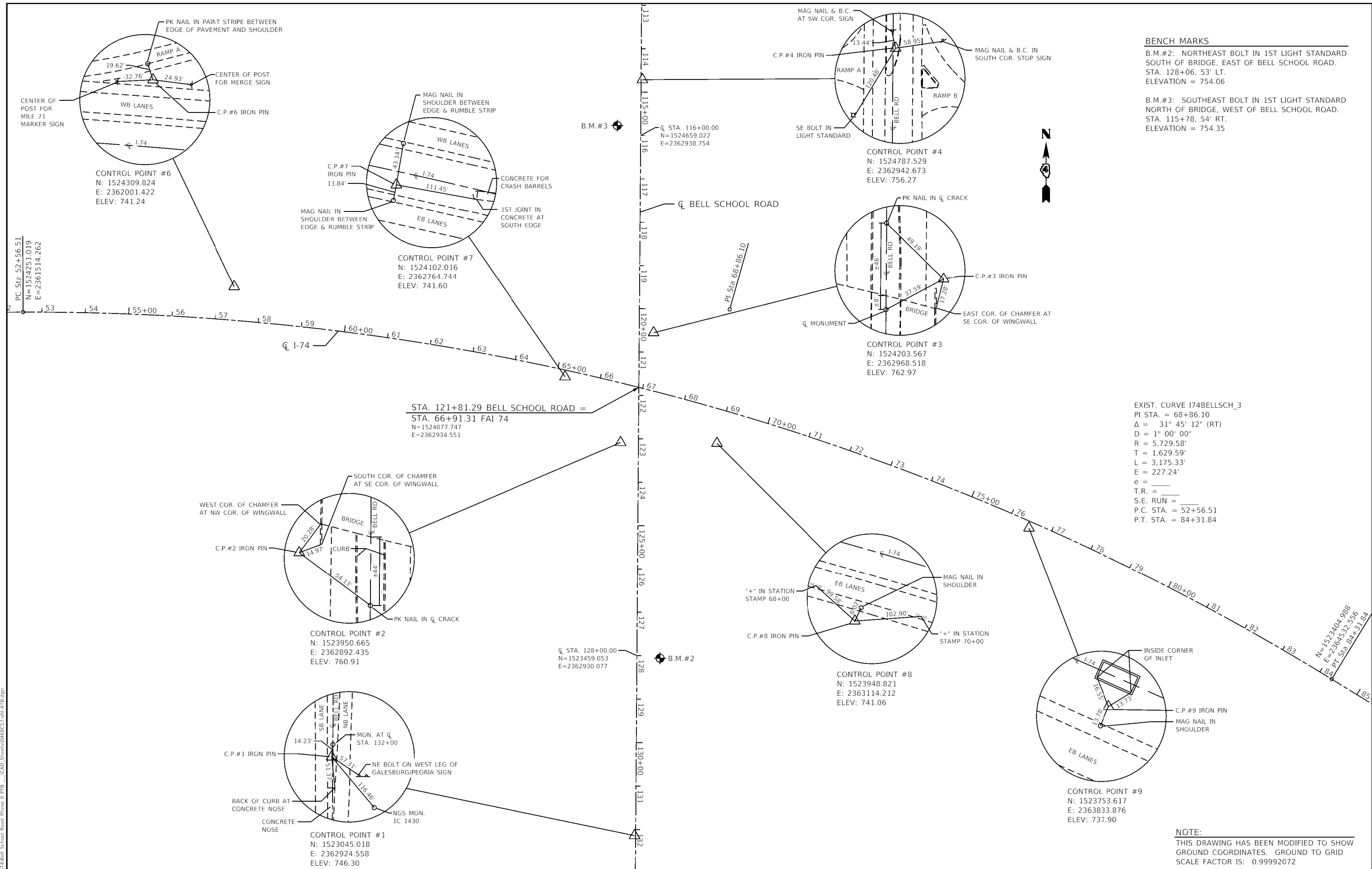
AGGREGATE SHOULDERS TYPE B				
STATION TO STATION	WIDTH	DEPTH	AGGREGATE SHOULDERS, TYPE B	
			FOOT	TONS
129+73.19	130+42	3	2.0	4.5
* 130+42	133+27	3	2.0	21.6
TOTALS				26.1

TEMPORARY PAVEMENT MARKINGS							
STATION	STATION	OFFSET	PAVEMENT MARKING BLACKOUT TAPE, 6"	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	PAVEMENT MARKING TAPE, TYPE IV 4"	TEMPORARY PAVEMENT MARKING REMOVAL
			FOOT	FOOT	SQ FT	FOOT	SQ FT
26+00	67+50		150			9200	3060
66+40	105+50		180			8820	2940
113+92	118+00	LT & RT		141.75	46.8		
115+00	RAMP	LT		96	192.0		
116+00	118+50	LT		76	26.0		
125+50	128+00	RT		76	26.0		
126+50	129+50	LT & RT		141.75	46.8		
128+50	RAMP	RT		96	192.0		
TOTALS			330	627.5	529.6	18020	6000

** TOTAL TO PROVIDE AND REMOVE TWO TIMES

MOWING			
STATION TO STATION		LT/RT	AREA
			ACRE
113+05	135+20	LT & RT	29.5

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BENCH MARKS
 B.M.#2: NORTHEAST BOLT IN 1ST LIGHT STANDARD SOUTH OF BRIDGE, EAST OF BELL SCHOOL ROAD. STA. 128+06, 53' LT. ELEVATION = 754.06
 B.M.#3: SOUTHEAST BOLT IN 1ST LIGHT STANDARD NORTH OF BRIDGE, WEST OF BELL SCHOOL ROAD. STA. 115+78, 54' RT. ELEVATION = 754.35

EXIST. CURVE 174BELLSCH_3
 PI STA. = 68+86.10
 $\Delta = 31^\circ 45' 12''$ (RT)
 $D = 1^\circ 00' 00''$
 $R = 5,729.58'$
 $T = 1,629.59'$
 $L = 3,175.33'$
 $E = 227.24'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 52+56.51$
 $P.T. STA. = 84+31.84$

NOTE:
 THIS DRAWING HAS BEEN MODIFIED TO SHOW GROUND COORDINATES. GROUND TO GRID SCALE FACTOR IS: 0.99992072

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CHECKED	MJS	CHECKED	MJS	REVISED	-
DATE	MAY 29, 2019	DATE	MAY 29, 2019	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

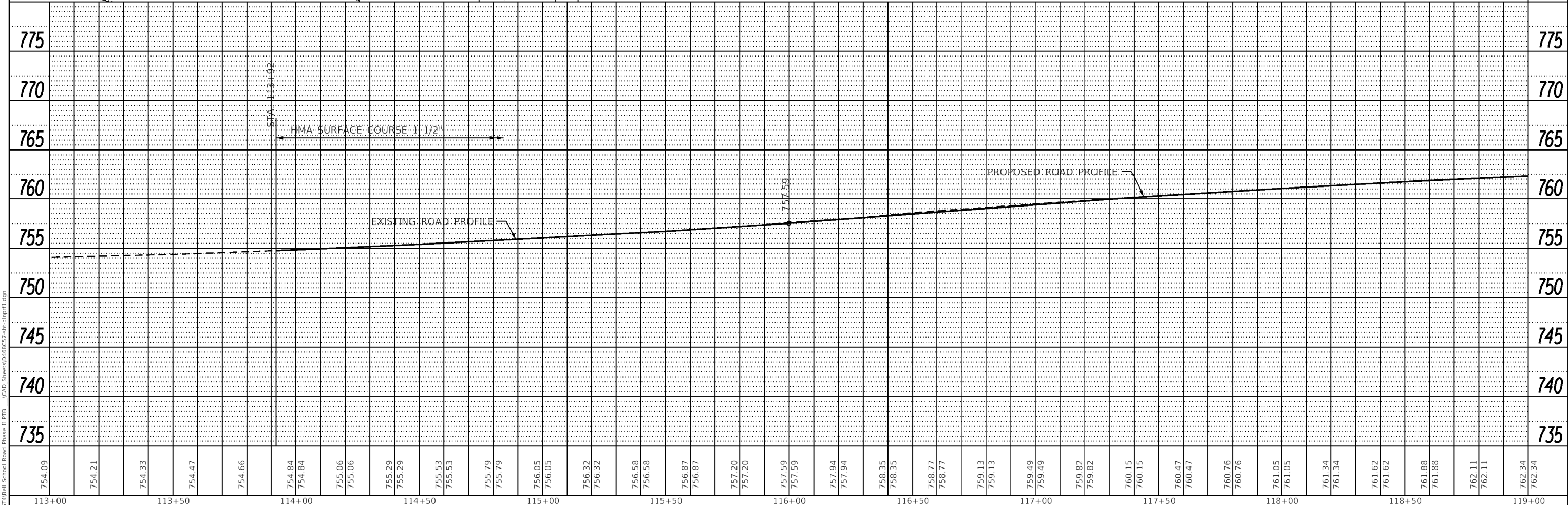
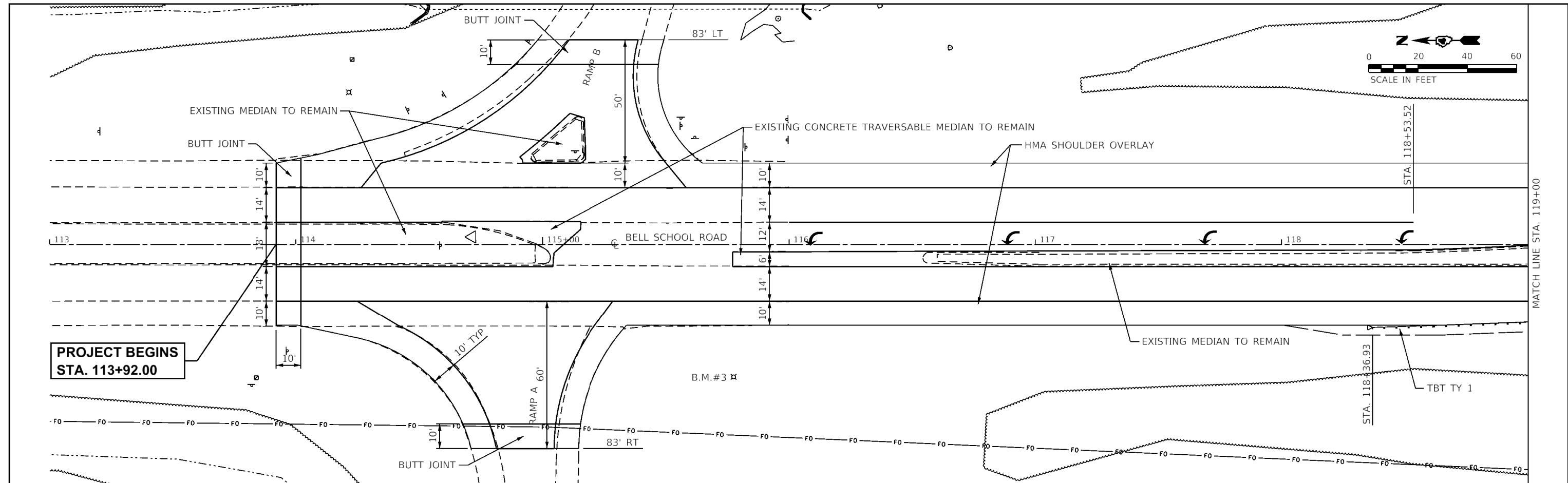
ALIGNMENT, TIES AND BENCHMARKS
BELL SCHOOL ROAD OVER I-74

SCALE: 200.0000' / IN SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB) BRR, 130 RS-6	PEORIA	83	16
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO.		
	FILE NAME		

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



754.09	754.21	754.33	754.47	754.66	754.84	754.84	755.06	755.06	755.29	755.29	755.53	755.53	755.79	755.79	756.05	756.05	756.32	756.32	756.58	756.58	756.87	756.87	757.20	757.20	757.59	757.59	757.94	757.94	758.35	758.35	758.77	758.77	759.13	759.13	759.49	759.49	759.82	759.82	760.15	760.15	760.47	760.47	760.76	760.76	761.05	761.05	761.34	761.34	761.62	761.62	761.88	761.88	762.11	762.11	762.34	762.34
113+00	113+50	114+00	114+50	115+00	115+50	116+00	116+50	117+00	117+50	118+00	118+50	119+00																																												

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REVISIONS	
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REVISED	-
REVISED	-
REVISED	-

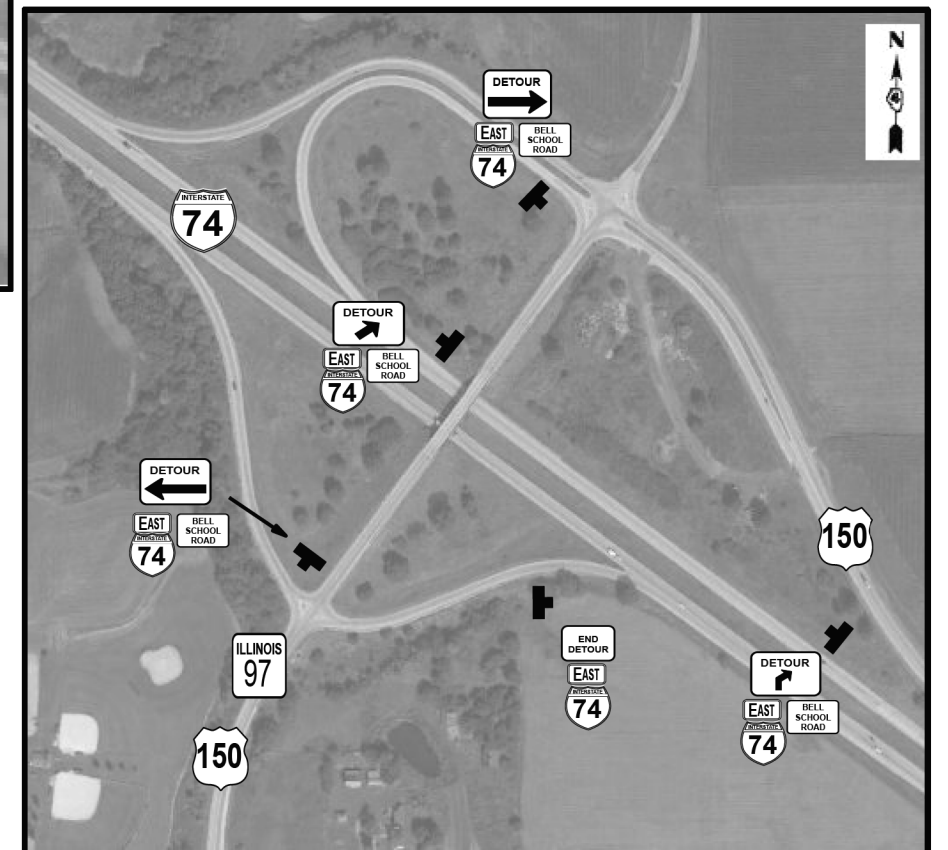
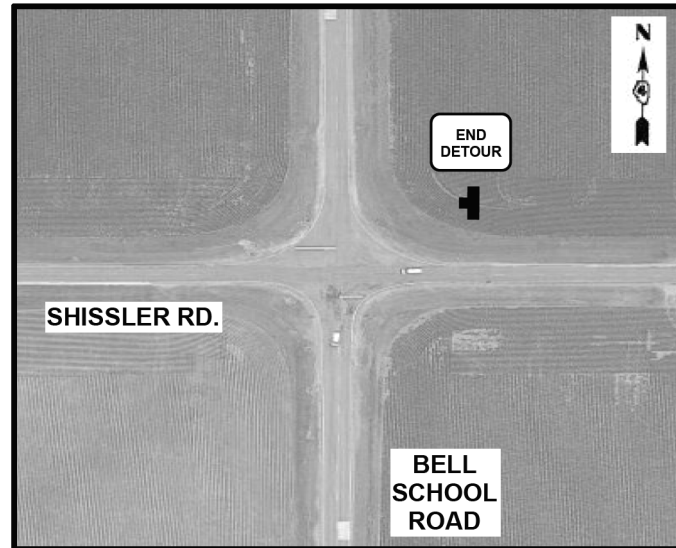
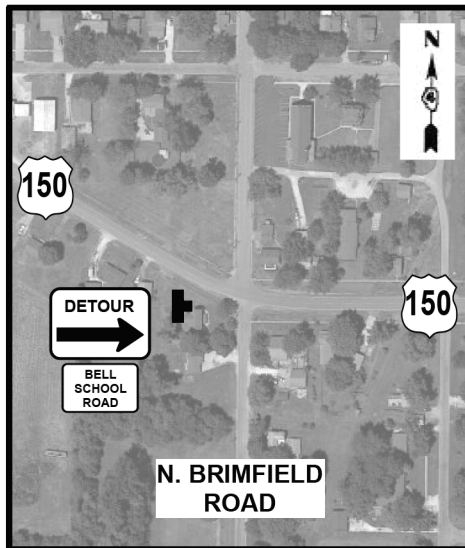
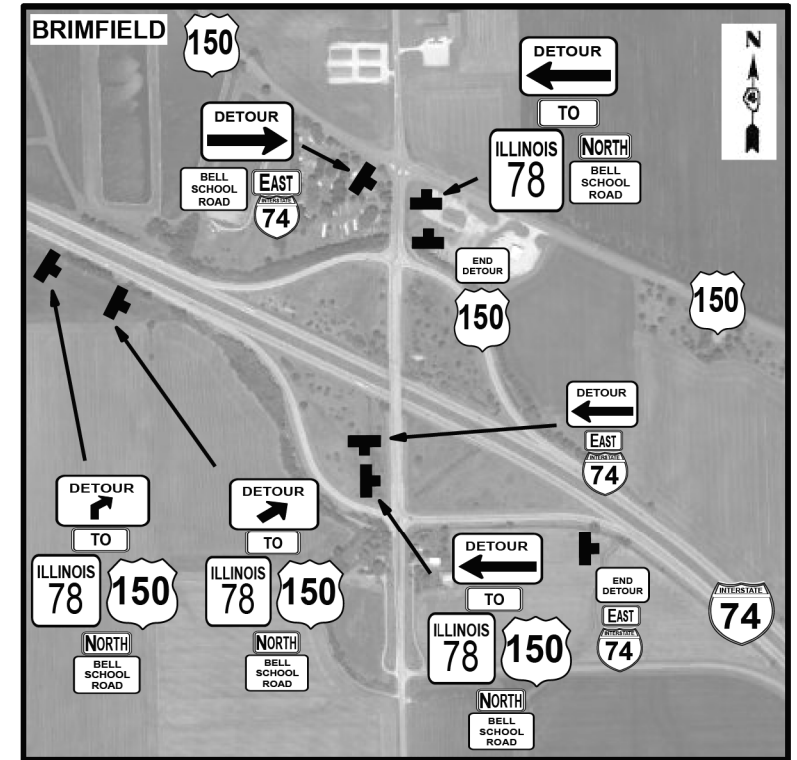
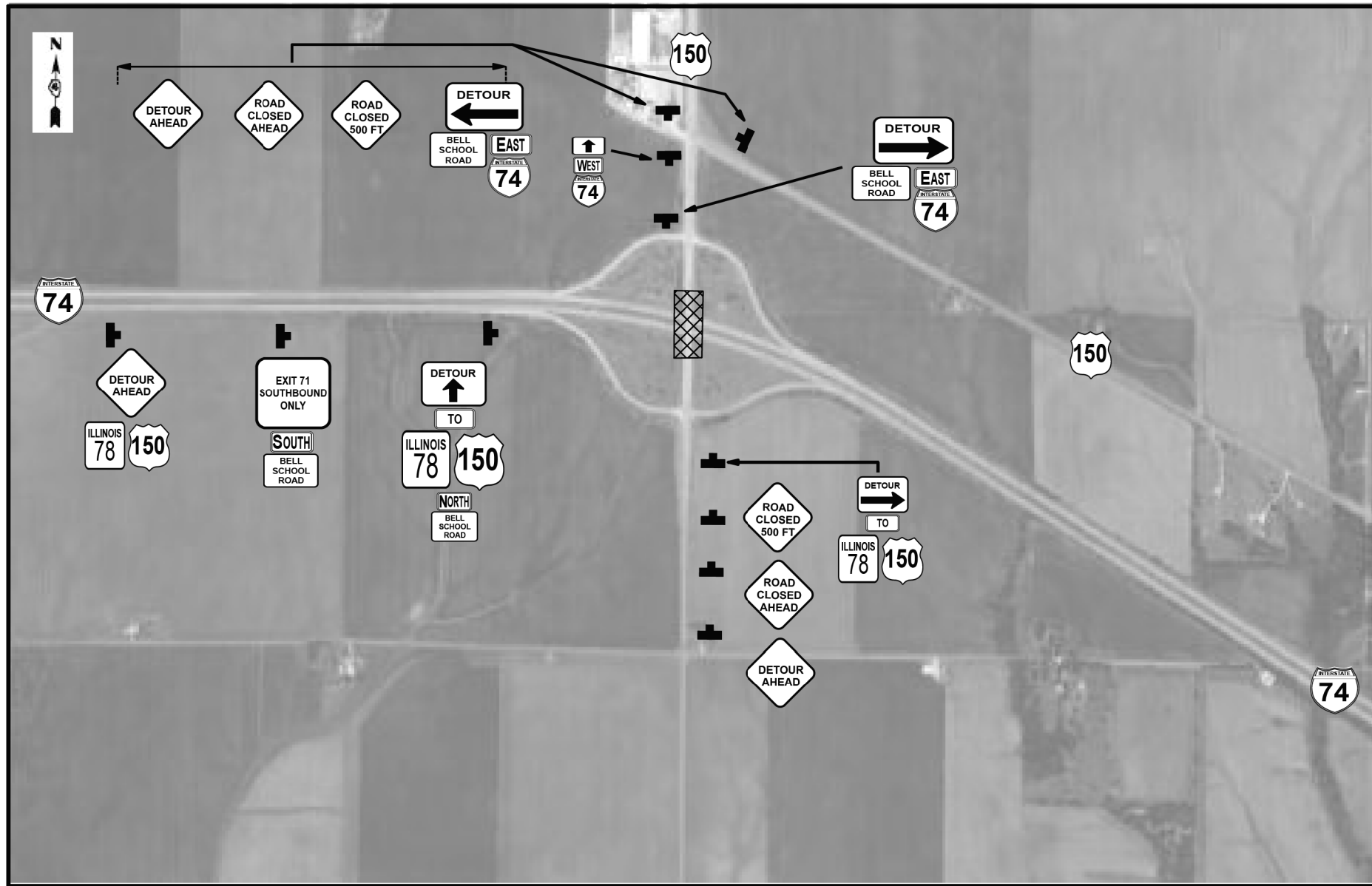
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN AND PROFILE
BELL SCHOOL ROAD OVER I-74

SCALE: 40.0000' / 1" SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB) BRR, 130 RS-6	PEORIA	83	17
CONTRACT NO. 68C57			ILLINOIS FED. AID PROJECT	

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CHECKED	- MJS	REVISIONS	-
DATE	- MAY 29, 2019	REVISIONS	-
PLOT SCALE	2,000' / in		
PLOT DATE	5/29/2019		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

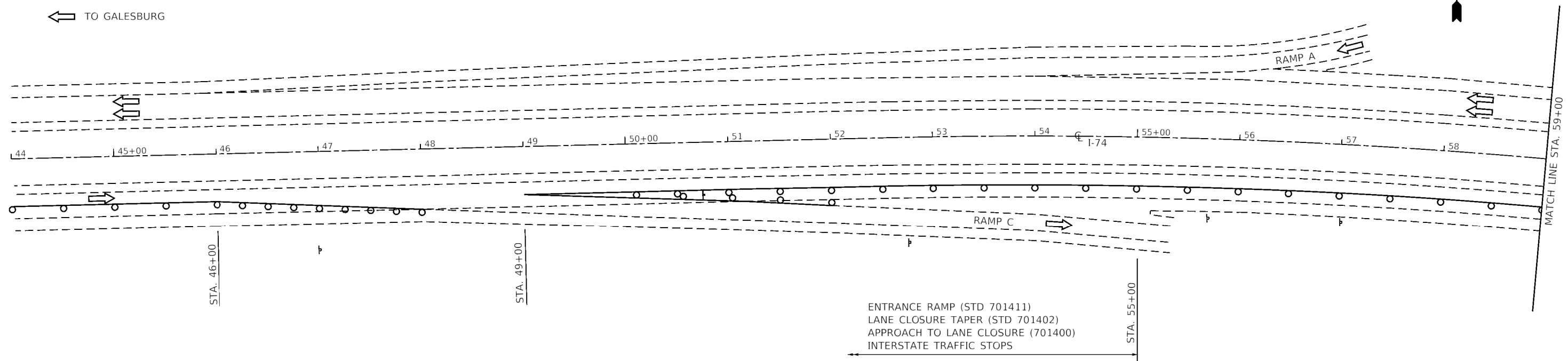
**DETOUR PLAN
 BELL SCHOOL ROAD OVER I-74**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB) BRR, 130 RS-6	PEORIA	83	20
CONTRACT NO. 68C57				
ILLINOIS		FED. AID PROJECT		

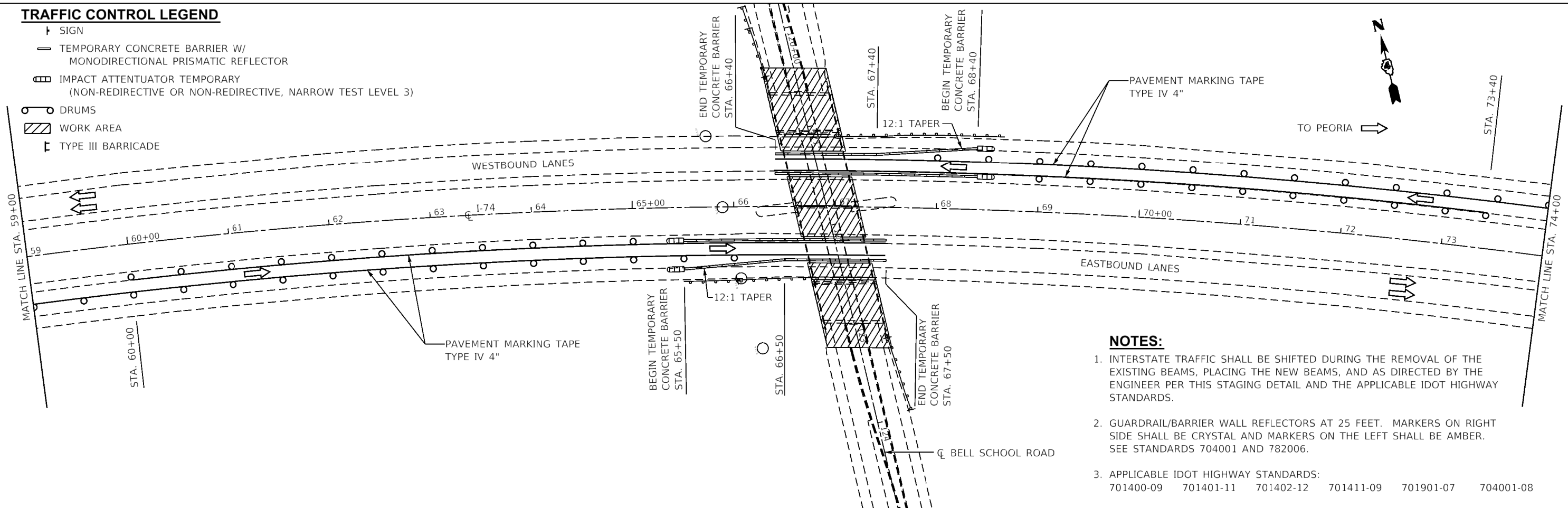


← TO GALESBURG



TRAFFIC CONTROL LEGEND

- ↑ SIGN
- TEMPORARY CONCRETE BARRIER W/ MONODIRECTIONAL PRISMATIC REFLECTOR
- ▩ IMPACT ATTENUATOR TEMPORARY (NON-REDIRECTIVE OR NON-REDIRECTIVE, NARROW TEST LEVEL 3)
- DRUMS
- ▨ WORK AREA
- ⊥ TYPE III BARRICADE



NOTES:

1. INTERSTATE TRAFFIC SHALL BE SHIFTED DURING THE REMOVAL OF THE EXISTING BEAMS, PLACING THE NEW BEAMS, AND AS DIRECTED BY THE ENGINEER PER THIS STAGING DETAIL AND THE APPLICABLE IDOT HIGHWAY STANDARDS.
2. GUARDRAIL/BARRIER WALL REFLECTORS AT 25 FEET. MARKERS ON RIGHT SIDE SHALL BE CRYSTAL AND MARKERS ON THE LEFT SHALL BE AMBER. SEE STANDARDS 704001 AND 782006.
3. APPLICABLE IDOT HIGHWAY STANDARDS:
701400-09 701401-11 701402-12 701411-09 701901-07 704001-08

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DATE	MAY 29, 2019	REVISIONS			

DESIGNED	-	REVISED	-
DRAWN	SAE	REVISIONS	
CHECKED	MJS		
DATE	MAY 29, 2019		

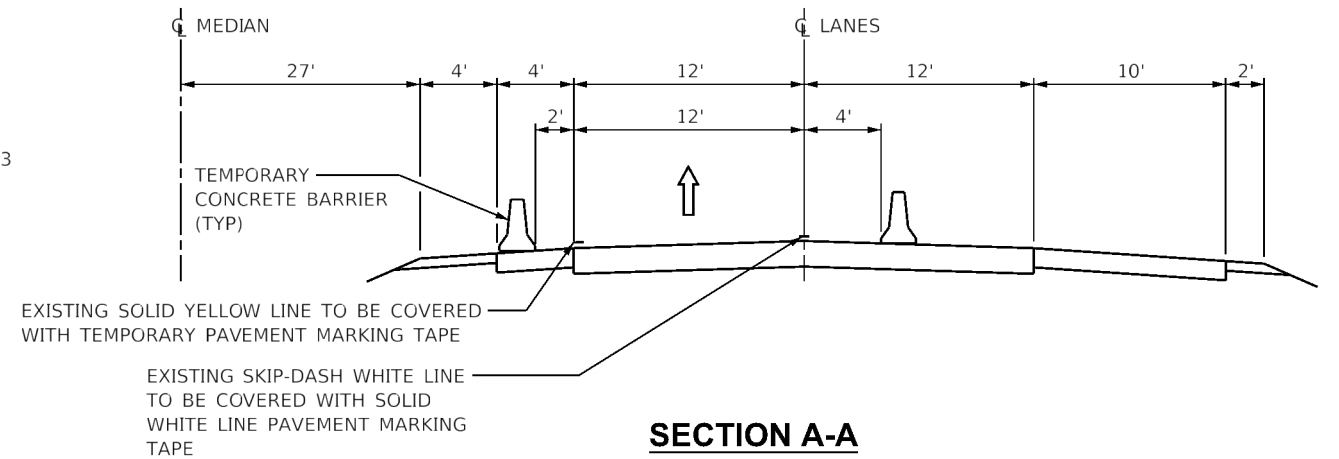
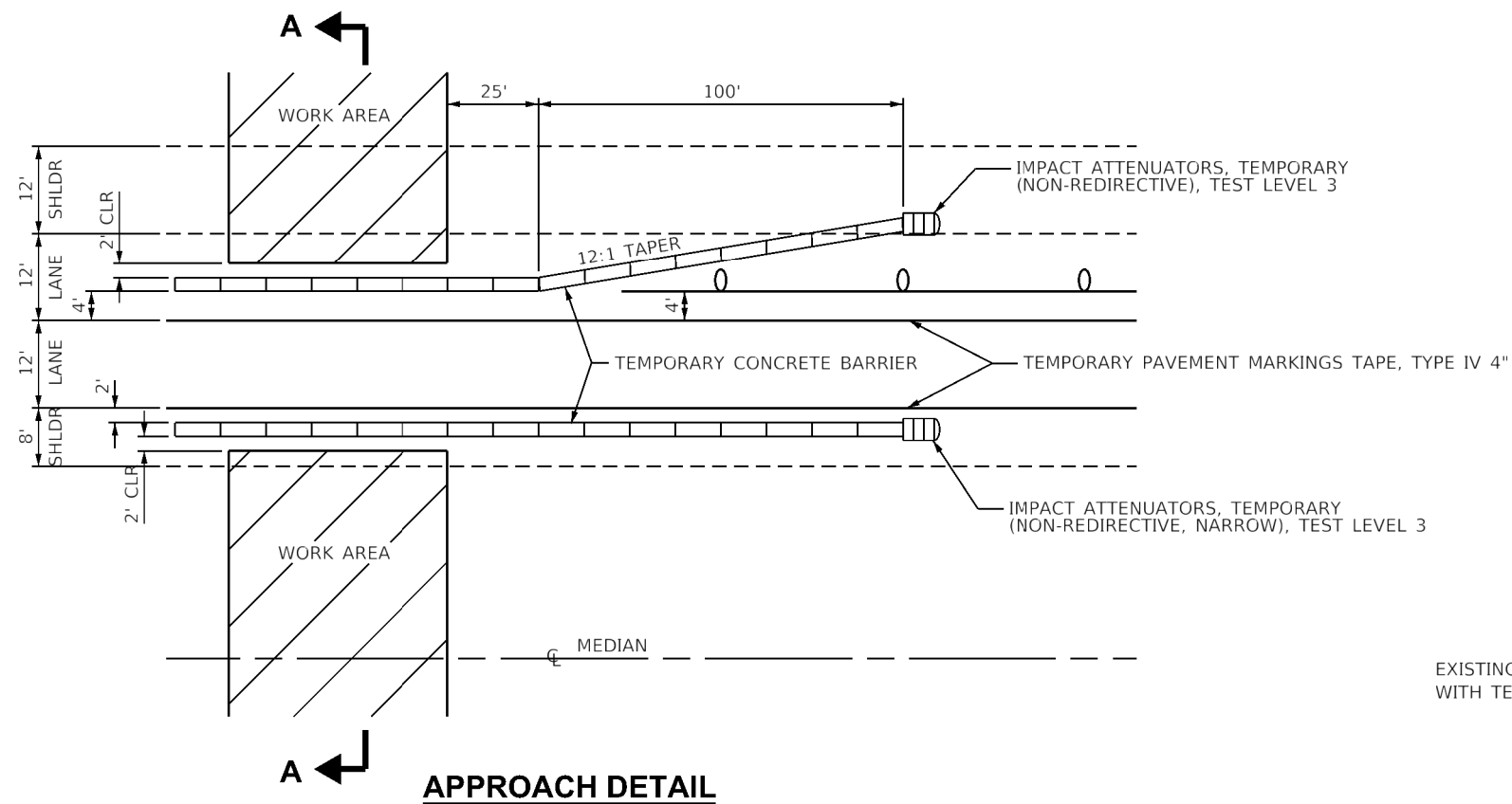
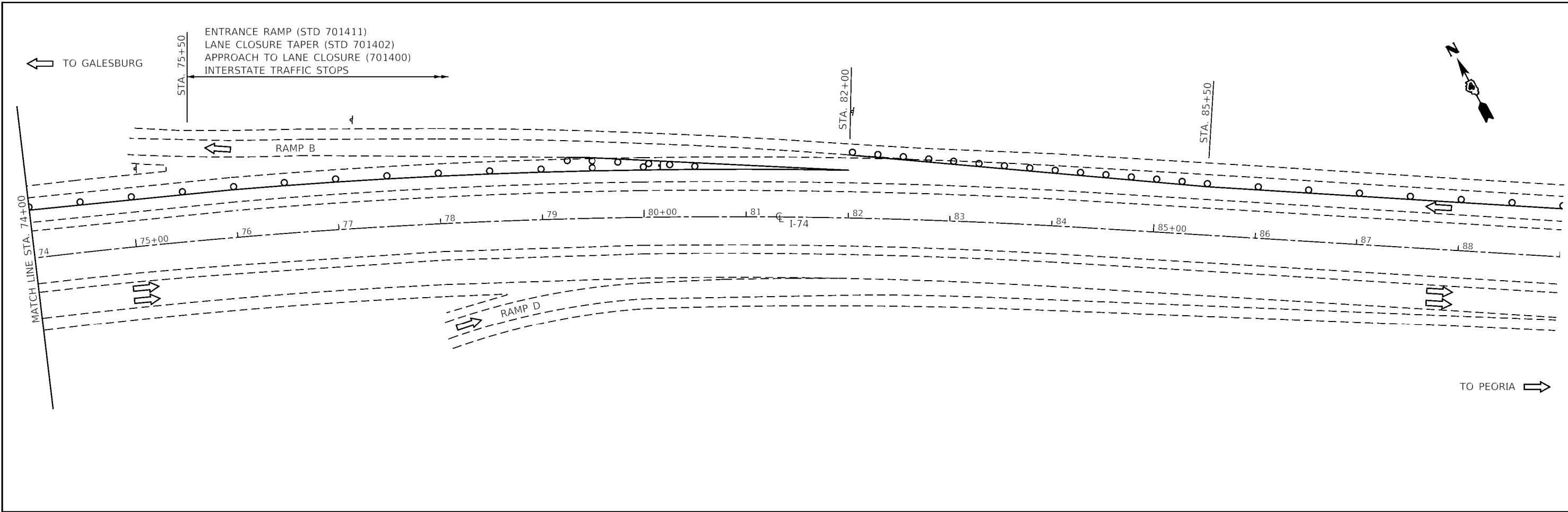
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL I-74 (SHEET 1)
BELL SCHOOL ROAD OVER I-74**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB) BRR, 130 RS-6	PEORIA	83	21
CONTRACT NO. 68C57				

SCALE: 100.0000' / 1" SHEET OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT



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DATE	MAY 29, 2019	REVISIONS			
PLLOT SCALE	100.0000' / in.				
PLLOT DATE	5/29/2019				

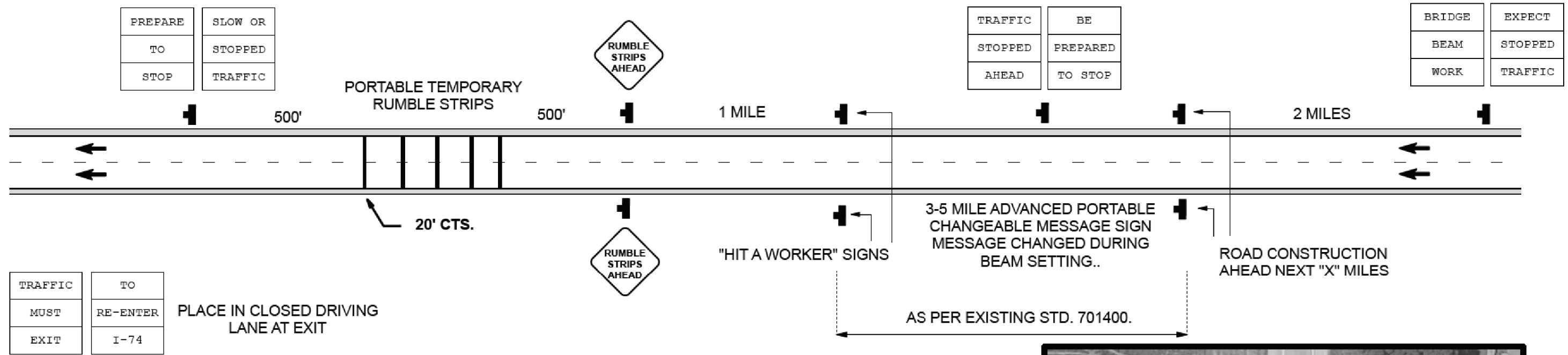
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL I-74 (SHEET 2)
 BELL SCHOOL ROAD OVER I-74**

SCALE: 100.0000' / in SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB) BRR, 130 RS-6	PEORIA	83	22
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				

INTERSTATE TRAFFIC STOPS



TEMPORARY RUMBLE STRIPS SHALL BE PLACED AFTER ALL SIGNAGE IS IN PLACE AND REMOVED PRIOR TO ALL SIGN REMOVAL.

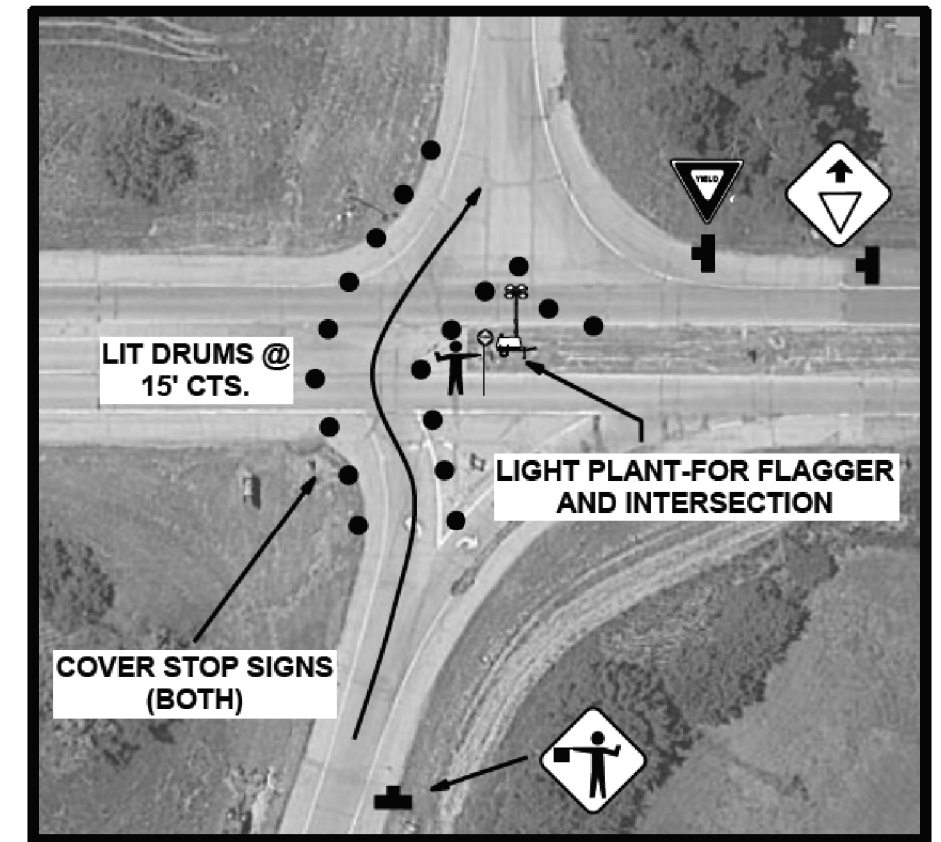
CONTRACTOR SHALL NOTIFY IDOT ONE WEEK PRIOR TO ARRANGE ISP TROOPER FOR SAFETY/DELAYS. THE TROOPER WILL STAY IN ADVANCE OF ANY TRAFFIC QUEUE OR NEAR THE BASE OF THE EXIT RAMP AND SHALL NOT BE POSITIONED NEAR THE FLAGGER.

EACH FLAGGER SHALL HAVE AN OVERHEAD LIGHT AS SHOWN.

CLOSURES SHALL BE DONE AT NIGHT FROM 10:00 PM TO 6:00 AM-MONDAY THRU THURSDAY.

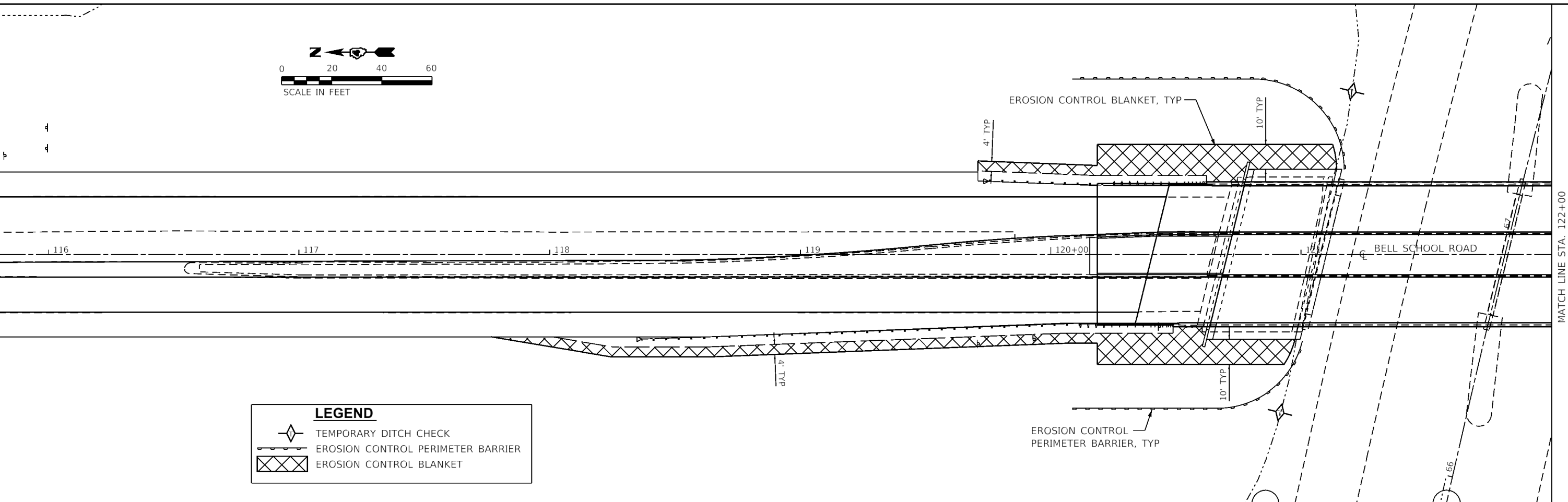
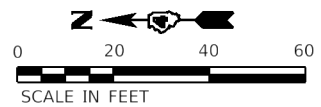
SATURDAY/SUNDAY- NO DAY OR NIGHT CLOSURES ALLOWED.

ALL COSTS, MATERIALS, PORTABLE CHANGEABLE MESSAGE SIGNS, LABOR ETC. AND AS SHOWN IN THIS DETAIL SHALL BE INCLUDED WITH TRAFFIC CONTROL AND PROTECTION. (SPECIAL).



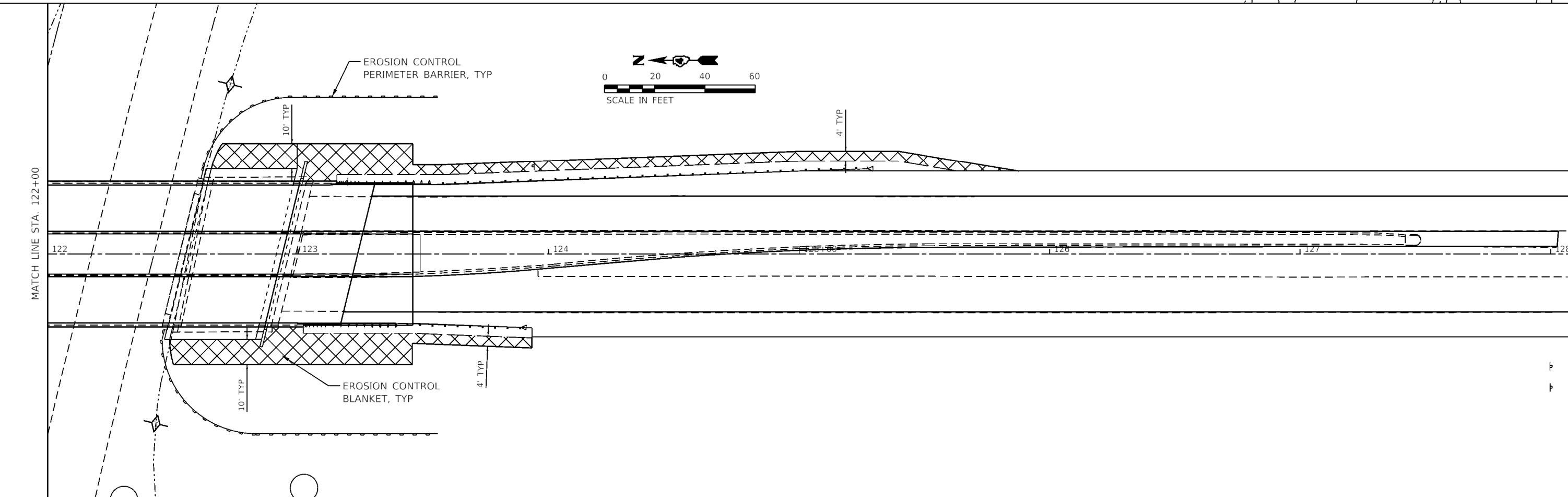
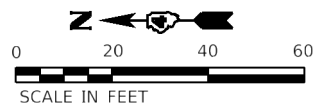
TYPICAL FOR TOP OF RAMP (BOTH)

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LEGEND

	TEMPORARY DITCH CHECK
	EROSION CONTROL PERIMETER BARRIER
	EROSION CONTROL BLANKET



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REVIS	-
CHECKED	- MJS
DATE	- MAY 29, 2019
REVIS	-
PLOT SCALE	40.0000' / 1"
PLOT DATE	5/29/2019

DESIGNED	-
DRAWN	-
REVIS	-
CHECKED	-
DATE	-
REVIS	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
BELL SCHOOL ROAD OVER I-74

SCALE: 40.0000' / 1" SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB) BRR, 130 RS-6	PEORIA	83	24
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				

ROUTE	LOCATION	EX. LUMINAIRE MOUNTING HEIGHT	EX. LUMINAIRE TYPE AND WATTAGE	EX. LUMINAIRE VOLTAGE	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	PROP. LUMINAIRE MOUNTING BRACKET - SPECIAL	NOTES
I-74	BELL SCHOOL RD. (EXIT 71)	45 FT. (POLES)	HPS, 250W, TENON MOUNT	480 V	14.0	4.0	FURNISH 1 FT. ARM AND INSTALL ON EX. TENON TOP LIGHT POLES, FURNISH AND INSTALL NEW SURGE ARRESTOR, FUSEHOLDER, FUSES, AND LUMINAIRE WIRING

CONSTRUCTION NOTES

1. EXISTING UTILITY LOCATION INFORMATION IS NOT SHOWN ON THE PLAN SHEETS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES PRIOR TO THE INSTALLATION OF ANY COMPONENTS. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS AND TERRAIN PRIOR TO COMMENCING WORK ON THE PROJECT.
2. THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF ANY COMPONENTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES AT HIS/HER OWN EXPENSE IF REQUIRED. THE CONTRACTOR SHALL ALSO 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 873.03 UNLESS SPECIFIED OTHERWISE.
6. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATION.
7. ANY MAINTENANCE OF EXISTING ELECTRICAL FACILITIES WILL BE CONSIDERED EXTRA WORK IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
8. THE EXISTING LIGHTING SHALL REMAIN IN OPERATION DURING THE INSTALLATION OF THE PROPOSED LIGHTING COMPONENTS.
9. REMOVAL OF EXISTING ITEMS (LUMINAIRES, WIRING, ETC.) WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICES FOR THE PROPOSED ITEMS.
10. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW FUSEHOLDERS, FUSES, SURGE ARRESTORS, AND POLE WIRING FOR EACH LUMINAIRE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED LUMINAIRES.
11. THE CONTRACTOR SHALL REMOVE HPS LAMPS FROM THE EXISTING FIXTURES PRIOR TO DISPOSAL. THE HPS LAMP SHALL BE DISPOSED OF AT A CERTIFIED RECYCLING FACILITY. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED LUMINAIRES.
12. THE CONTRACTOR SHALL FURNISH 1 FT. GALVANIZED LUMINAIRE ARMS AND INSTALL THEM ONTO THE EXISTING TENON TOP LIGHT POLES. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED LUMINAIRES.
13. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW STAINLESS STEEL OR PERFORATED ALUMINUM SCREENING AROUND AN EXISTING LIGHT POLE. THE CONTRACTOR SHALL REMOVE THE EXISTING SCREEN AND DISPOSE OF IT OFF THE RIGHT OF WAY. THE PROPOSED SCREEN SHALL BE SECURELY Banded ON THE TOP AND BOTTOM OF THE BREAK-AWAY COUPLINGS TO PREVENT RODENT ENTRY AND NO GAPS IN EXCESS OF 0.25 INCH WILL BE ALLOWED. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "FURNISH AND INSTALL METAL SCREEN"
14. THE CONTRACTOR SHALL FURNISH AND INSTALL TWIN TENON LUMINAIRE BRACKET CONSTRUCTED FROM GALVANIZED STEEL AND INSTALL IT ON AN EXISTING LIGHT POLE AT THE LOCATIONS SHOWN ON THE PLAN SHEETS. THE BRACKET SHALL ACCOMMODATE THE INSTALLATION OF TWO ROADWAY LUMINAIRES AT 90 DEGREES. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "LUMINAIRE MOUNTING BRACKET, SPECIAL."
15. THE COST OF THE OVERHEAD SERVICE CABLE AND SERVICE CABLE FROM THE DISCONNECT TO THE LIGHTING CONTROLLER SHALL BE INCLUDED IN THE COST OF THE PROPOSED ELECTRIC SERVICE.
16. PCC HANDHOLES SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE MEDIAN, SIDEWALK, OR GROUND LINE.
17. PROPOSED HANDHOLES SHALL BE CAST IN PLACE CONCRETE HANDHOLES.
18. COILABLE POLYETHYLENE DUCT MAY BE SUBSTITUTED FOR PVC PUSHED OR TRENCHED.
19. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN THE REQUIRED MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
20. ALL LIGHTING STRUCTURES AND HANDHOLES SHALL BE BONDED IN ACCORDANCE WITH NEC REQUIREMENTS. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C" AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS (INCLUDING CLAMPS, HARDWARE, ELECTRICAL CABLE, AND ALL OTHER ITEMS REQUIRED TO BOND THE STRUCTURES).
21. THE CONTRACTOR SHALL INTERCEPT THE EXISTING UNIT DUCT IN THE TWO LOCATIONS SHOWN ON THE PLAN SHEETS AND COUPLE IT TO THE PROPOSED 1" DIAMETER PVC CONDUIT. THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED CONDUIT.
22. THE EXISTING CONDUIT ATTACHED TO STRUCTURE SHALL BE REMOVED AND SHALL BE INCLUDED IN THE COST OF THE STRUCTURE REMOVAL.
23. THE PROPOSED WIRE SHALL BE INSTALLED CONTINUOUS FROM LIGHT POLE 5 TO LIGHT POLE 6 AND SHALL BE SPLICED INTO THE EXISTING CIRCUIT IN THE BASE OF EACH LIGHT POLE. THE CONTRACTOR SHALL REMOVE THE EXISTING ELECTRIC CABLE AND DISPOSE OF IT OFF SITE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED ELECTRIC CABLE.

P:\C\1\1\DOT\DOT\Bell_School_Road_Phase_II_PIB_...68C57_Final_Lighting_Design\68C57_1-74_Bell_School_Rd_Lighting_Plan_04-25-19.dgn

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	DRAWN -	REVISED -
PLOT SCALE = 1/8"=1'-0"	CHECKED -	REVISED -
PLOT DATE = 5/23/2019	DATE - MAY 29, 2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

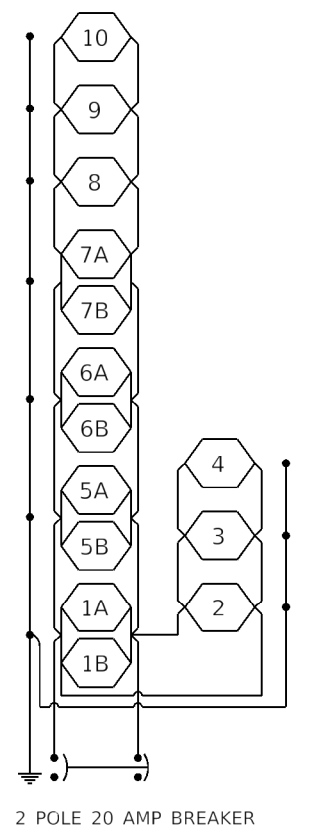
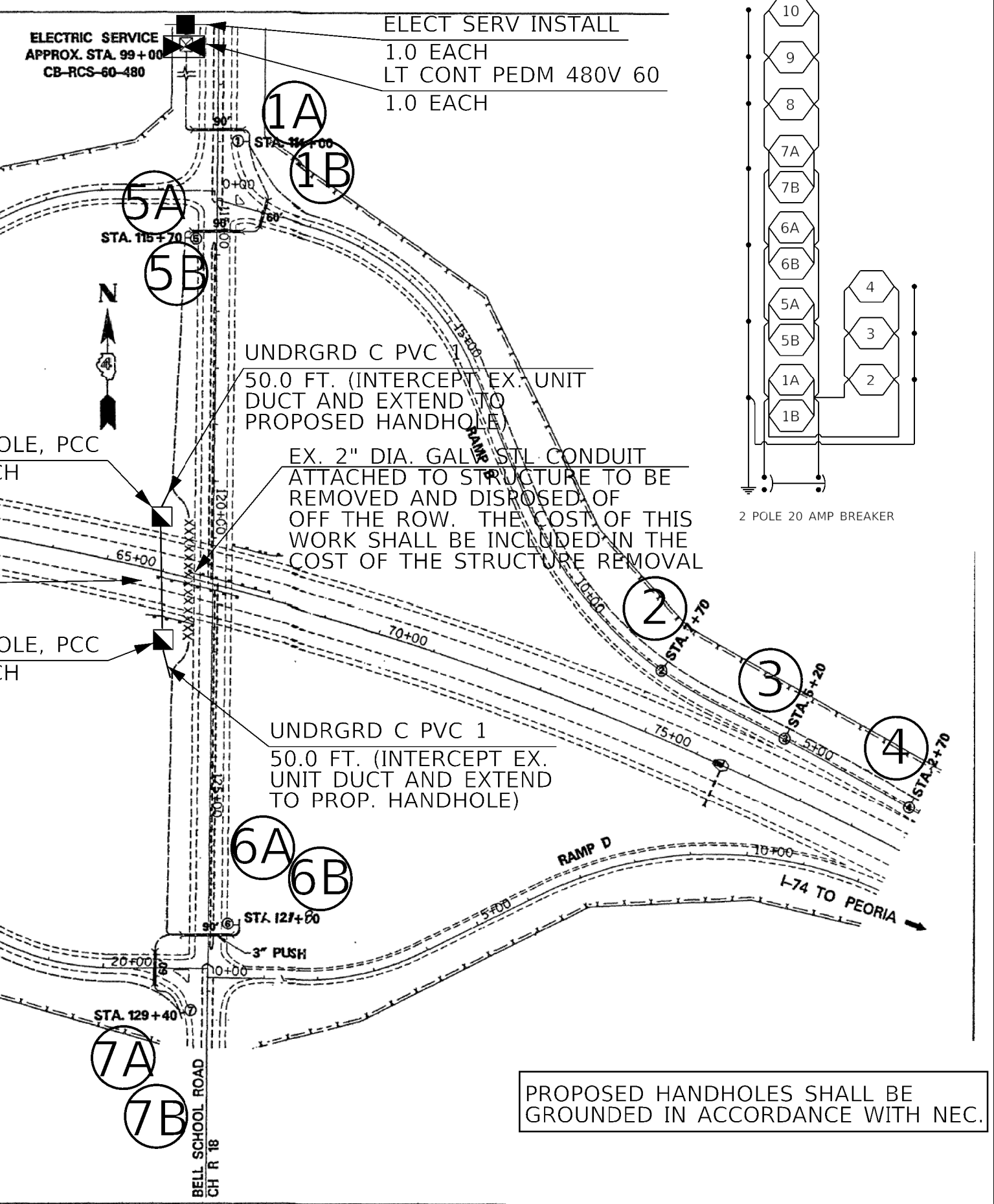
**PROPOSED LED LUMINAIRE INSTALLATION DETAILS &
LIGHTING CONSTRUCTION NOTES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB) BRR; 130 RS-6	PEORIA	83	25
			CONTRACT NO. 68C57	
ILLINOIS FED. AID PROJECT				

BILL OF MATERIALS
I-74 @ BELL SCHOOL RD (EXIT 71)

ITEM DESCRIPTION	UNIT	TOTAL QTY.
ELECTRIC SERVICE INSTALLATION	EACH	1.0
UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	100.0
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	185.0
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	4275.0
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	14.0
LIGHTING CONTROLLER, PEDESTAL MOUNTED, 480VOLT, 60AMP	EACH	1.0
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR,	FOOT	1438.0
LUMINAIRE MOUNTING BRACKET - SPECIAL	EACH	4.0
FURNISH AND INSTALL METAL SCREEN	EACH	10.0



TWIN TENON BRACKETS (PROP. LUMINAIRE MOUNTING BRACKET - SPECIAL) SHALL BE INSTALLED ON LIGHT POLES 1, 5, 6, 7.

POLE NO.	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	LUMINAIRE MOUNTING BRACKET - SPECIAL
	QTY.	QTY.
1	2.0	1.0
2	1.0	
3	1.0	
4	1.0	
5	2.0	1.0
6	2.0	1.0
7	2.0	1.0
8	1.0	
9	1.0	
10	1.0	

PROPOSED HANDHOLES SHALL BE GROUNDED IN ACCORDANCE WITH NEC.

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	DRAWN -	REVISED -
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PLOT DATE = 5/23/2019	DATE - MAY 29, 2019	REVISED -

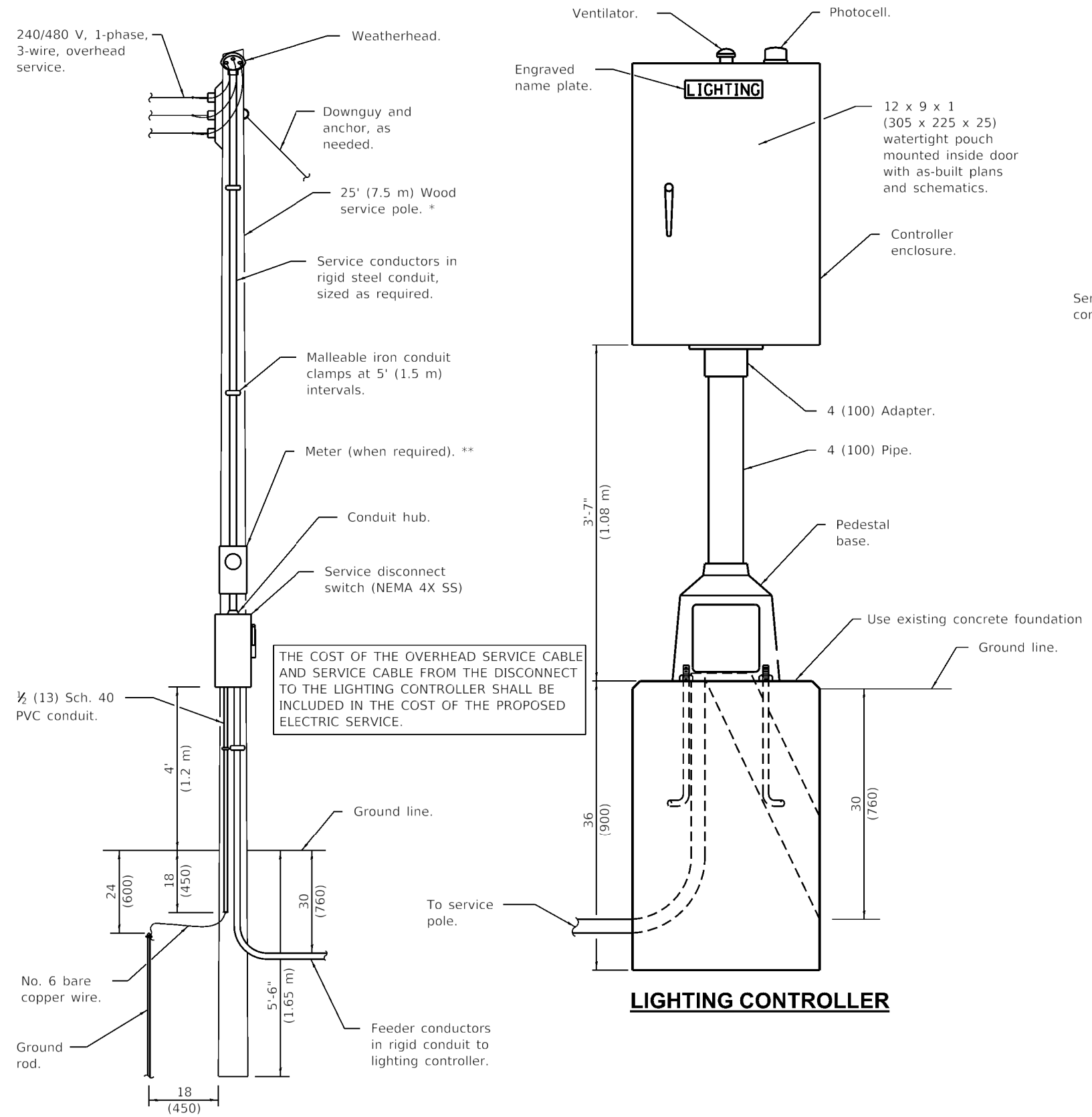
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLANS
BELL SCHOOL ROAD OVER I-74

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB) BRR; 130 RS-6	PEORIA	83	26
CONTRACT NO. 68057				
ILLINOIS FED. AID PROJECT				

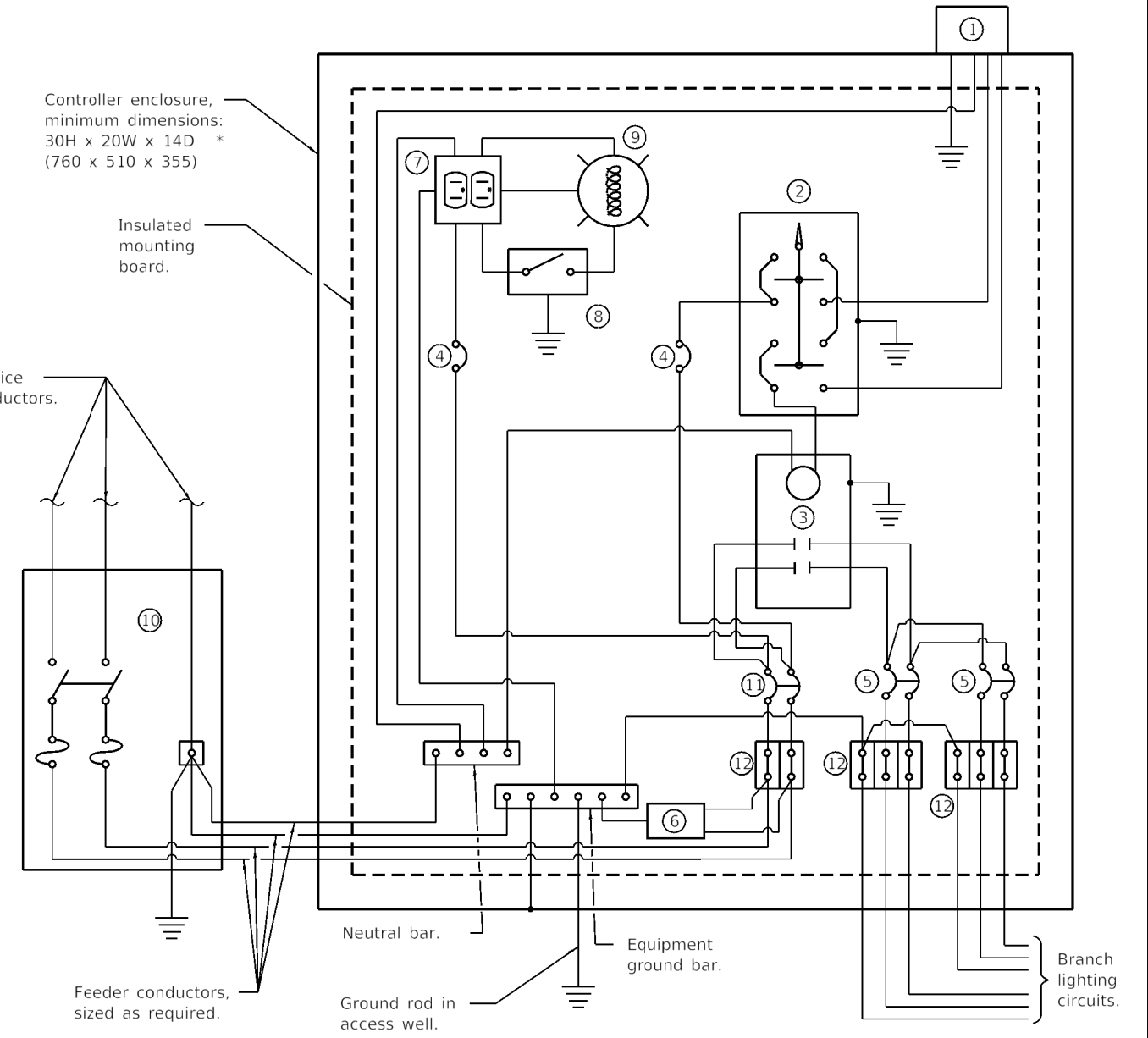
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ELECTRIC SERVICE INSTALLATION

(Typical overhead service shown. Cut pole off for underground service and treat cut surface with preservative. Consult utility company standards for exact requirements.)
 * Size larger as needed.
 ** When cold sequencing is required, provide a meter disconnect switch as directed by Utility Company.

THE COST OF THE OVERHEAD SERVICE CABLE AND SERVICE CABLE FROM THE DISCONNECT TO THE LIGHTING CONTROLLER SHALL BE INCLUDED IN THE COST OF THE PROPOSED ELECTRIC SERVICE.



CONTROL SCHEMATIC

- ① Photocell with integral surge arrester.
- ② HAND-OFF-AUTO selector switch.
- ③ 100 amp*, electrically held contactor.
- ④ 15 amp, 1-pole circuit breaker.
- ⑤ 10 amp*, 2-pole circuit breaker (QTY 4.0:
1.0 - lighting circuit
1.0 - ITS cabinet transformer
2.0 - spares).
- ⑥ Surge arrester.
- ⑦ GFCI duplex receptacle.
- ⑧ Single-pole, single-throw switch.
- ⑨ LED light bulb, enclosed and gasketed with 800 lumen lamp.
- ⑩ Service disconnect switch - 2-pole, 3-wire, 60 amp*, fused at 60 amp*, solid neutral in NEMA 4X enclosure having lockable external handle.
- ⑪ 60 amp*, 2-pole circuit breaker.
- ⑫ Terminal block sized for conductors as shown on plans.

* Size larger as needed.

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

USER NAME = S1037	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 5/23/2019	DATE - MAY 29, 2019	REVISED -

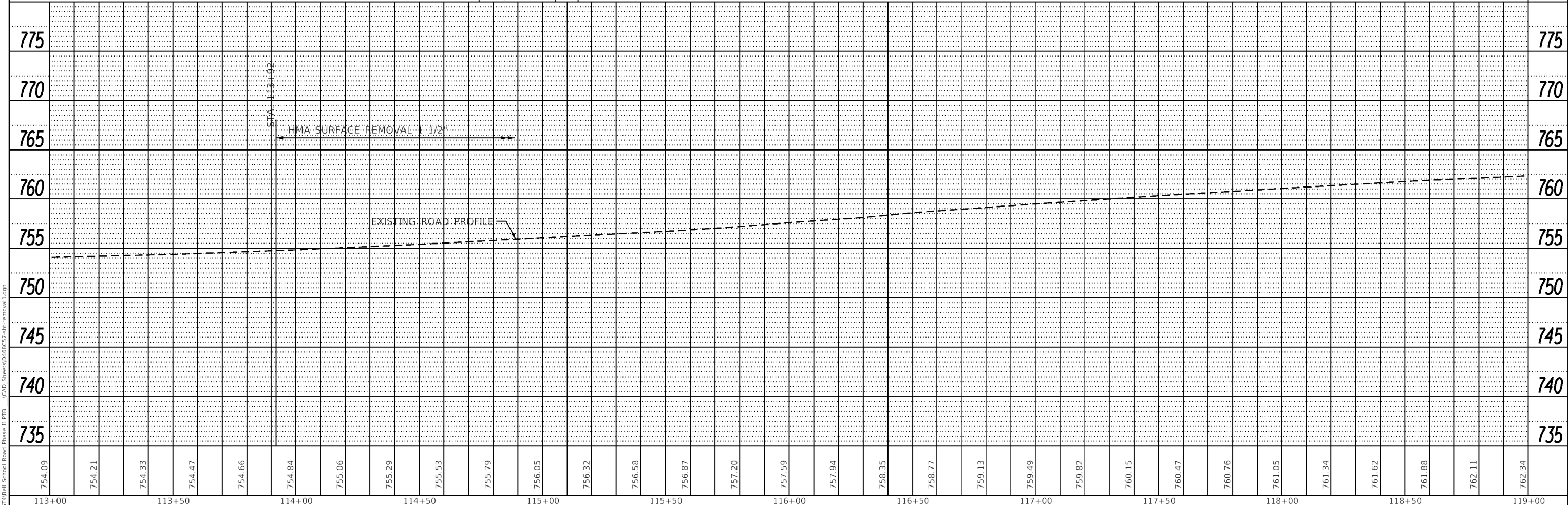
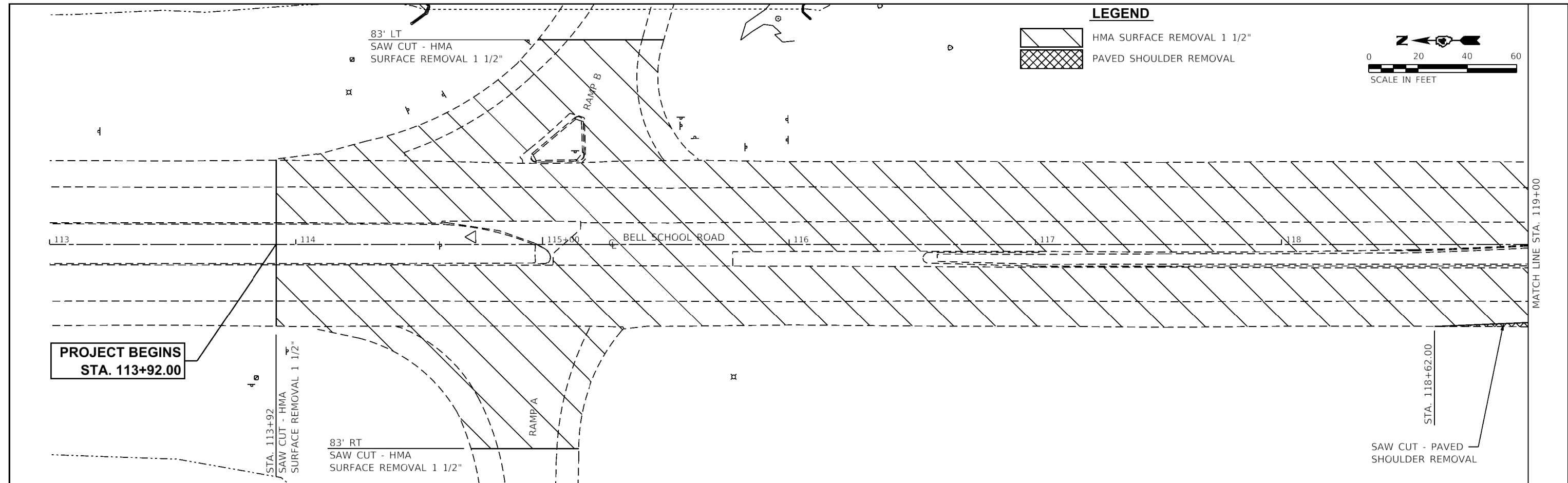
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED LIGHTING CONTROLLER DETAIL			
BELL SCHOOL ROAD OVER I-74			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB) BRR; 130 RS-6	PEORIA	83	27
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	ALIGNED		
	CHECKED		
	FILED		
	NO.		

PROFILE	SURVEYED	BY	DATE
	GRADES		
	CHECKED		
	STRUCTURE		
	NOTATIONS		
	NO.		



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113+00	113+50	114+00	114+50	115+00	115+50	116+00	116+50	117+00	117+50	118+00	118+50	119+00																		

The Upchurch Group
architects engineers surveyors

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e-mail: upchurchgroup@upchurchgroup.com

USER NAME	Sta37
DESIGNED	-
DRAWN	- SAE
CHECKED	- MJS
DATE	- MAY 29, 2019
REVISIONS	
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REVISED	-
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REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

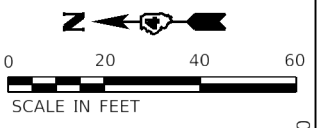
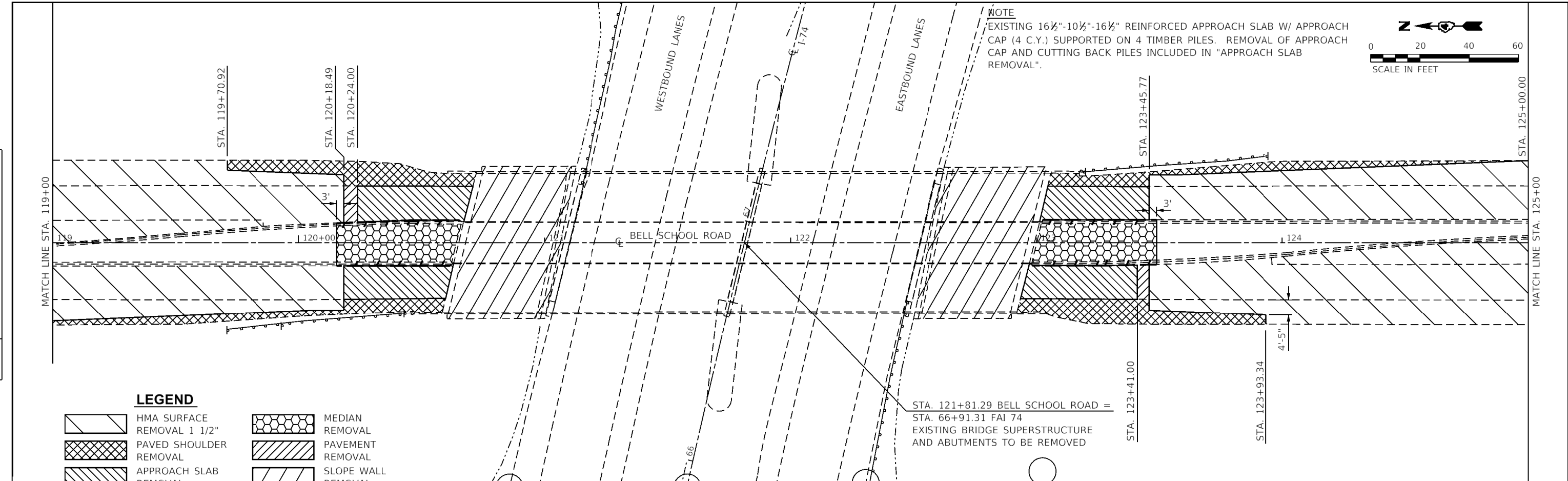
REMOVAL PLAN AND PROFILE
BELL SCHOOL ROAD OVER I-74

SCALE: 40.0000' / 1" SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB) BRR, 130 R5-6	PEORIA	83	28
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
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	NO.		

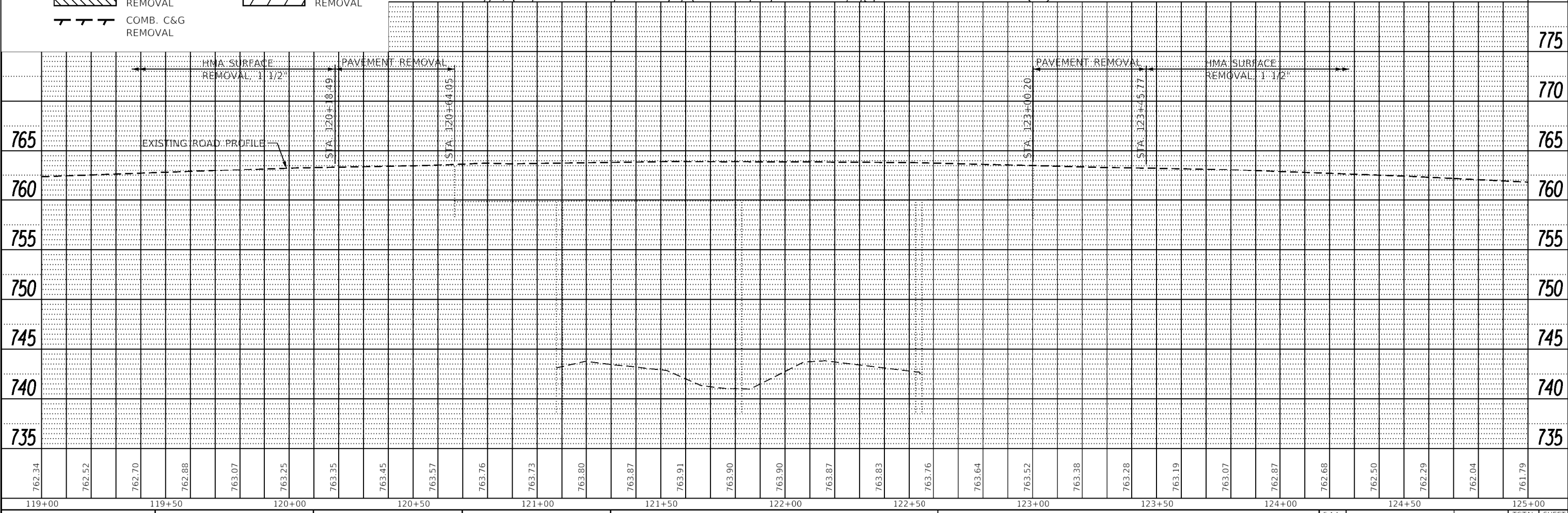
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES		
	CHECKED		
	STRUCTURE		
	NOTATIONS		
	NO.		



LEGEND

	HMA SURFACE REMOVAL 1 1/2"		MEDIAN REMOVAL
	PAVED SHOULDER REMOVAL		PAVEMENT REMOVAL
	APPROACH SLAB REMOVAL		SLOPE WALL REMOVAL
	COMB. C&G REMOVAL		

STA. 121+81.29 BELL SCHOOL ROAD = STA. 66+91.31 FAI 74
EXISTING BRIDGE SUPERSTRUCTURE AND ABUTMENTS TO BE REMOVED



The Upchurch Group
architects engineers surveyors

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e-mail: upchurchgroup@upchurchgroup.com

USER NAME	Sta37
DESIGNED	-
DRAWN	- SAE
CHECKED	- MJS
DATE	- MAY 29, 2019
REVISIONS	
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN AND PROFILE
BELL SCHOOL ROAD OVER I-74

SCALE: 40.0000' / 1" SHEET OF SHEETS STA. TO STA.

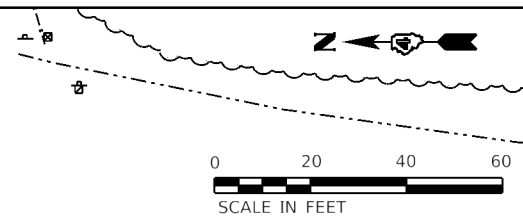
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB) BRR, 130 RS-6	PEORIA	83	29
				CONTRACT NO. 68C57

ILLINOIS FED. AID PROJECT

LEGEND

 HMA SURFACE REMOVAL 1 1/2"

83' LT
SAW CUT - HMA
SURFACE REMOVAL 1 1/2"

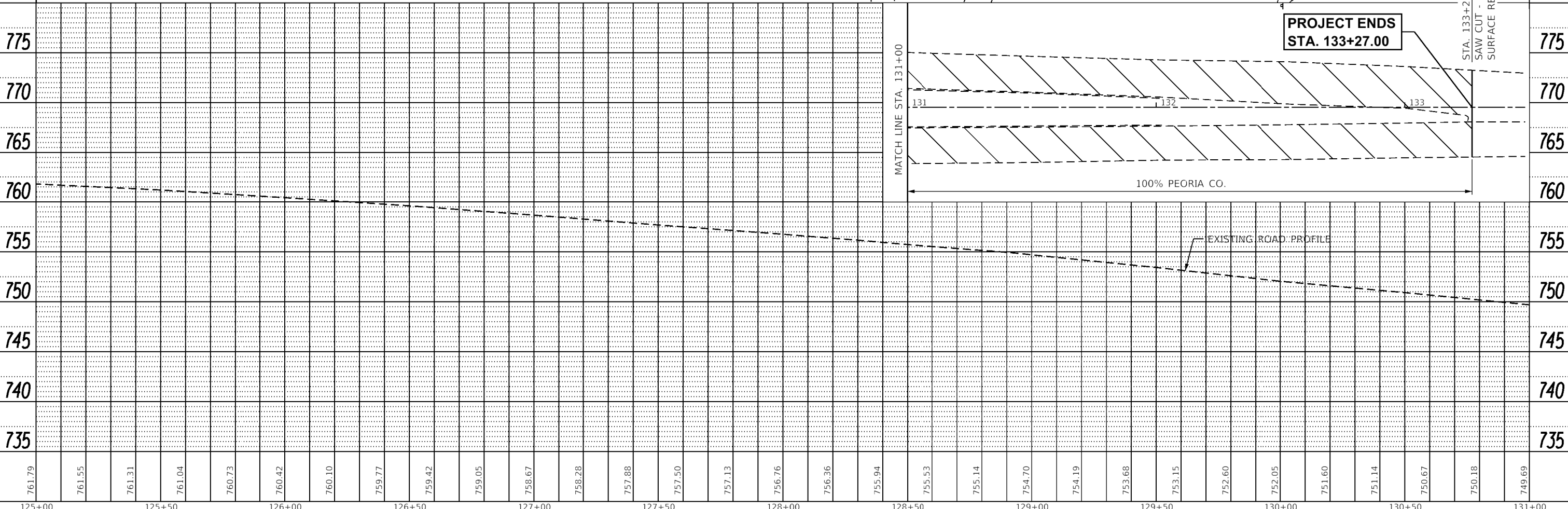
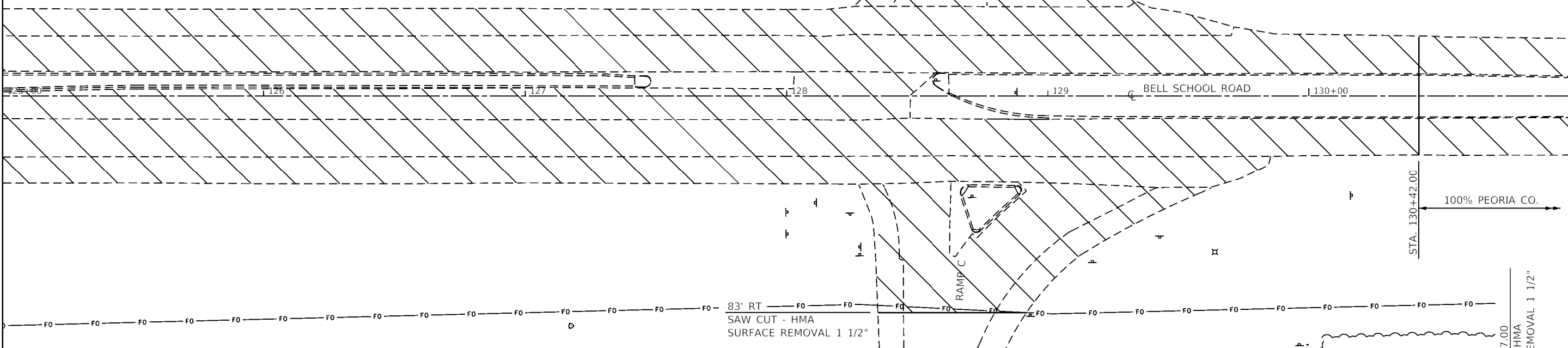


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	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES		
	CHECKED		
	STRUCTURE		
	NOTATIONS		
	NO.		

MATCH LINE STA. 125+00

MATCH LINE STA. 131+00



761.79	761.55	761.31	761.04	760.73	760.42	760.10	759.77	759.42	759.05	758.67	758.28	757.88	757.50	757.13	756.76	756.36	755.94	755.53	755.14	754.70	754.19	753.68	753.15	752.60	752.05	751.60	751.14	750.67	750.18	749.69
125+00	125+50	126+00	126+50	127+00	127+50	128+00	128+50	129+00	129+50	130+00	130+50	131+00																		

Bench Mark: NE Bolt in 1st Light Standard Base south of the bridge on east side of Bell School Road. Elevation 754.06

Existing-Structure: SN-072-0073 Built in 1968 under F.A.I. Route 74 (Bell-School Rd.) Section 72-3HB. In 1977 it underwent rehabilitation work to the deck and abutments. In 1984 the steel was painted. Fire damage to Pier 1 and Beam 1 was repaired in 2001. In 2009 protective shield was added over I-74. The bridge has a four span continuous steel beam superstructure on spill thru type abutments and multi-column piers. It is 237'-2" bk-bk abut. and 58'-0" o-o deck. The bridge will be reconstructed as shown. Traffic is to be detoured and the road closed during construction.

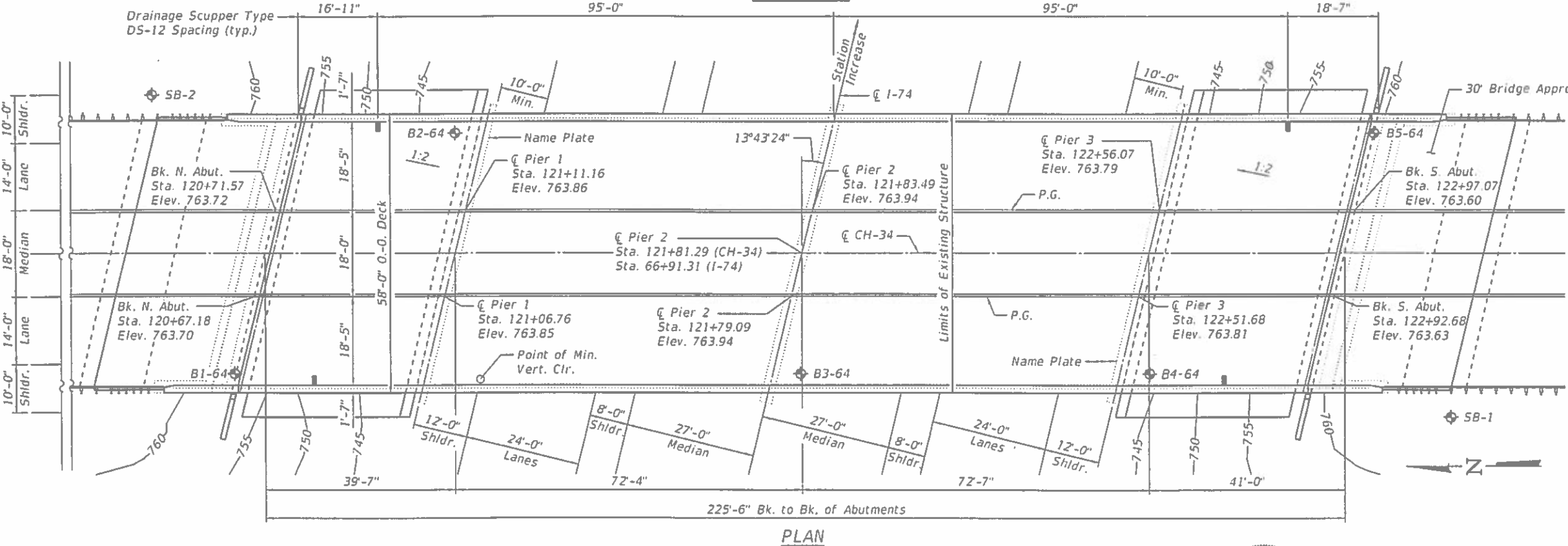
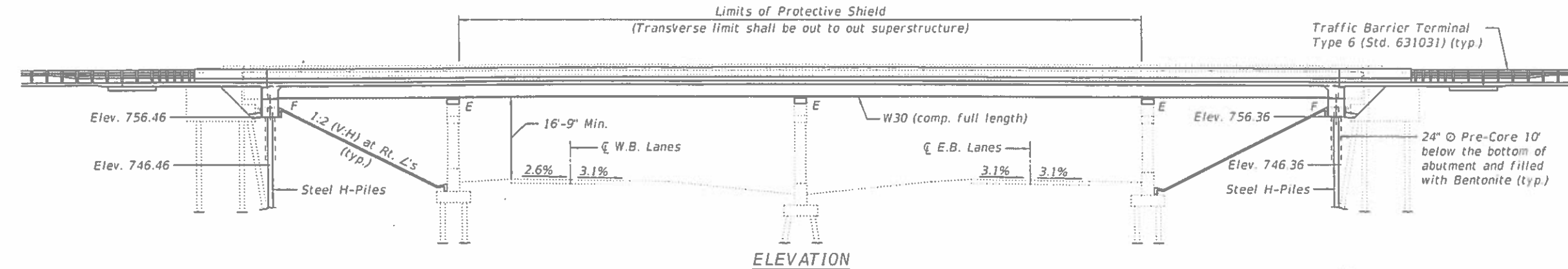
No salvage.

SCOPE OF WORK

1. Remove and replace existing superstructure.
2. Remove and replace abutments.
3. Replace existing bearings with new steel fixed and elastomeric expansion bearings.
4. Repair piers.
5. Replace slopewalls

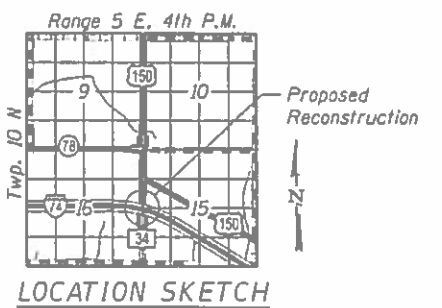
INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
- 3-7. Top of Slab Elevations
- 8-9. Top of Approach Slab Elevations
10. Superstructure
- 11-12. Superstructure Details
13. Concrete Parapet Slipforming Option
14. Concrete End Diaphragms
- 15-16. Bridge Approach Slab Details
17. Drainage Scupper DS-12
18. Framing Plan
19. Steel Details
20. Bearing Details
21. North Abutment Details
22. South Abutment Details
- 23-25. Pier Repairs
- 26-28. Pier Pedestal Details
29. HP Pile Details
- 30-33. Soil Boring Data



APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Dr. Carl Krueger
ENGINEER OF BRIDGE AND STRUCTURES



SEISMIC DATA

New Construction

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.075g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.122g
Soil Site Class = C

Existing Piers

Seismic Performance Category (SPC) = A
Horizontal Bedrock Acceleration Coefficient = 0.011g
Site Coefficient = 1.0

DESIGN SPECIFICATIONS (New Constr.)

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 and 2016 Interims

Existing Piers

1995 FHWA Seismic Retrofitting Manual for Highway Bridges

LOADING HL-93

Allow 25#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS (New Construction)

$f'_c = 3,500$ psi
 $f'_c = 4,000$ psi (Superstructure Concrete)
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)

FIELD UNITS (Exist. Piers)

$f_c = 1,400$ psi
 $f_s = 20,000$ psi (Reinforcement)



Michael T. Haley 5-23-2019
Date
Michael T. Haley
Licensed Structural Engineer
State of Illinois No 81-5991
Expires 11/30/2020

GENERAL PLAN & ELEVATION
CH-34 (BELL SCHOOL ROAD) OVER I-74
FAI ROUTE 74 - SECTION (72-3HB)BRR;130RS-6

PEORIA COUNTY
STATION 121+81.29
STRUCTURE NUMBER 072-0073

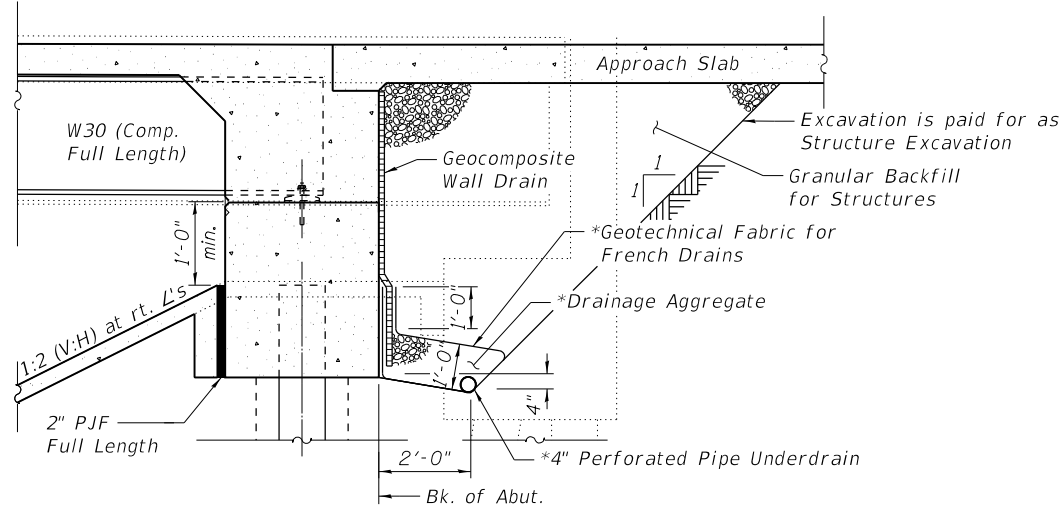
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	PLOT DATE = 5/29/2019	DRAWN - CGY	REVISED -
		CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 33 SHEETS

FAI RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	31
CONTRACT NO. 68C57				
ILLINOIS FED AID PROJECT				

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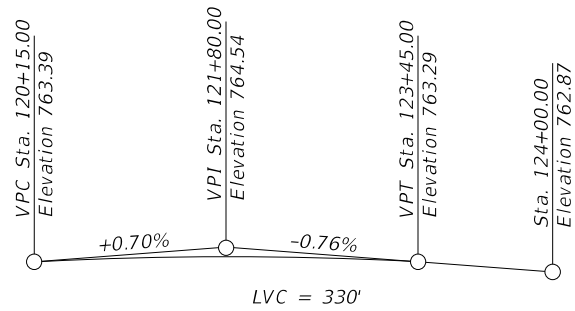
SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. L's)

*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

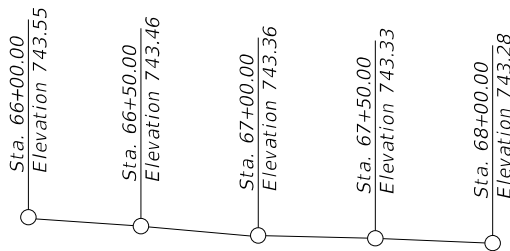
Note:

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



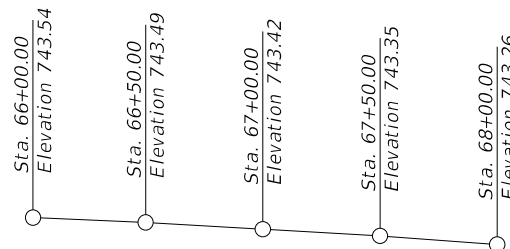
PROFILE GRADE CH-34

(along P.G.)



PROFILE GRADE I-74 W.B.

(along C W.B. Lanes)

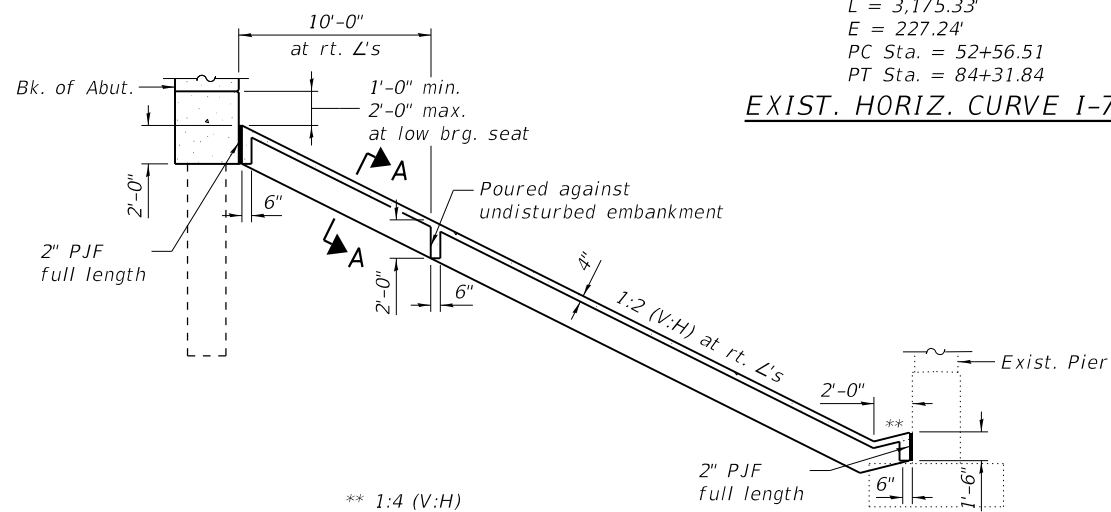


PROFILE GRADE I-74 E.B.

(along C E.B. Lanes)

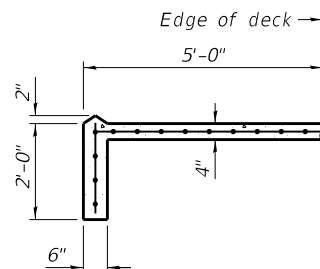
Existing Curve 17421
 PI Sta. = 68+86.10
 $\Delta = 30^\circ 45' 12''$ (RT)
 $D = 1^\circ 0' 0''$
 $R = 5,729.58'$
 $T = 1,629.39'$
 $L = 3,175.33'$
 $E = 227.24'$
 PC Sta. = 52+56.51
 PT Sta. = 84+31.84

EXIST. HORIZ. CURVE I-74



SECTION THRU CONCRETE SLOPEWALL

Note: Slope wall shall be reinforced with galvanized welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.



SECTION A-A

STATION 121+81.29
 BUILT 20 BY
 STATE OF ILLINOIS
 FAI RTE. 74 SEC. (72-3HB)BRR;130RS-6
 LOADING HL-93
 STRUCTURE NO. 072-0073

NAME PLATE

See Std. 515001
 New Name Plates to be located next to existing Name Plates on Piers.

GENERAL NOTES

- Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts 7/8 in. Ø, holes 1 1/16 in. Ø, unless otherwise noted.
- Calculated weight of Structural Steel = 370,510 lb (Grade 50) 17,300 lb (Grade 36)
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- 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.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- The Organic Zinc Rich Primer / Epoxy / Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception of the exterior surface and the bottom of the bottom flange of fascia beams, masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate Green, Munsell No. 7.5G 4/8.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures	Each	1	-	1
Slope Wall Removal	Sq. Yd.	-	657	657
Protective Shield	Sq. Yd.	901	-	901
Structure Excavation	Cu. Yd.	-	56	56
Concrete Structures	Cu. Yd.	-	108.5	108.5
Concrete Superstructure	Cu. Yd.	515.8	-	515.8
Bridge Deck Grooving	Sq. Yd.	1067	-	1067
Protective Coat	Sq. Yd.	1977	-	1977
Concrete Superstructure (Approach Slab)	Cu. Yd.	159.6	-	159.6
Furnishing and Erecting Structural Steel	L. Sum	1	-	1
Stud Shear Connectors	Each	10098	-	10098
Reinforcement Bars, Epoxy Coated	Pound	175610	19960	195570
Slope Wall 4 Inch	Sq. Yd.	-	599	599
Furnishing Steel Piles HP12x63	Foot	-	850	850
Driving Piles	Foot	-	850	850
Test Pile Steel HP12x63	Each	-	1	1
Name Plates	Each	-	2	2
Elastomeric Bearing Assembly, Type I	Each	-	27	27
Anchor Bolts, 1"	Each	-	90	90
Geocomposite Wall Drain	Sq. Yd.	-	96	96
Granular Backfill for Structures	Cu. Yd.	-	166	166
Removal of Existing Sub-Structures	Each	-	2	2
Drainage Scuppers, DS-12	Each	4	-	4
Structural Repair of Concrete (Depth ≤5 Inches)	Sq. Ft.	-	70	70
Structural Repair of Concrete (Depth >5 Inches)	Sq. Ft.	-	5	5
Pipe Underdrains for Structures 4"	Foot	-	158	158

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LE LIN ENGINEERING, LTD.
 Consulting Engineers
 Springfield, Illinois

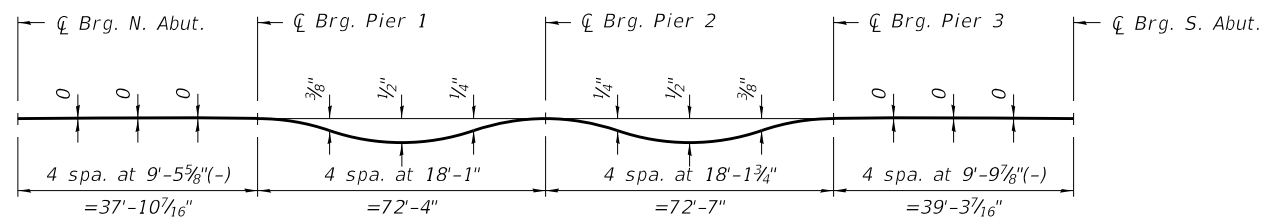
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PLOT DATE = 5/29/2019	DRAWN - CGY	REVISED -
	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL DATA
 STRUCTURE NO. 072-0073

SHEET 2 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	32
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				

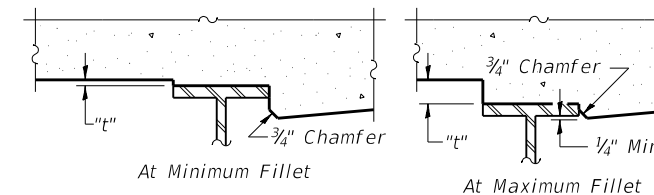


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

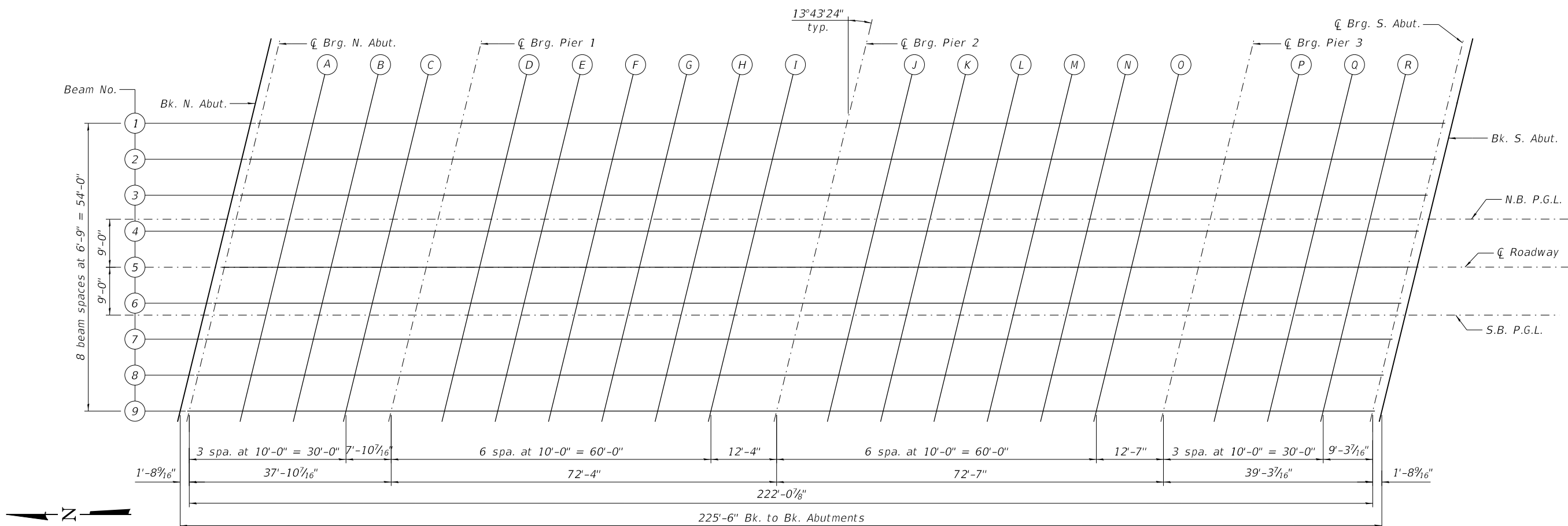
Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets 4 thru 7 of 33.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets 4 thru 7 of 33, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



PLAN

(Sheet 1 of 5)

MODEL: Default
FILE NAME: E:\0936-12\StructG - SN 072-0073\4 - Final Design\Design Plans\CADD_Sheets\072-0073-D468C57-003-TopOfSlabElev1.dgn



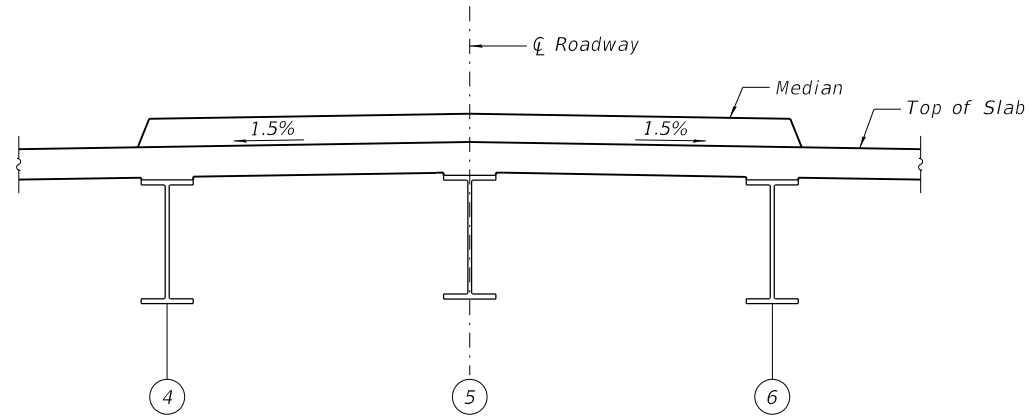
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	CHECKED - VPT	REVISED -
PLOT SCALE =	DRAWN - CGY	REVISED -
PLOT DATE = 5/29/2019	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 072-0073

SHEET 3 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	33
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				



DETAIL AT MEDIAN
 Elevations at Beams 4, 5 and 6 are given
 at Theoretical Top of Slab below median.
 (Looking South)

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	120+75.97	-27.00	763.44	763.44
Q Brg. N. Abut.	120+77.68	-27.00	763.45	763.45
A	120+87.68	-27.00	763.49	763.49
B	120+97.68	-27.00	763.53	763.53
C	121+07.68	-27.00	763.56	763.56
Q Brg. Pier 1	121+15.55	-27.00	763.58	763.58
D	121+25.55	-27.00	763.60	763.62
E	121+35.55	-27.00	763.62	763.65
F	121+45.55	-27.00	763.64	763.67
G	121+55.55	-27.00	763.65	763.68
H	121+65.55	-27.00	763.65	763.68
I	121+75.55	-27.00	763.65	763.66
Q Brg. Pier 2	121+87.89	-27.00	763.65	763.65
J	121+97.89	-27.00	763.64	763.65
K	122+07.89	-27.00	763.63	763.65
L	122+17.89	-27.00	763.61	763.64
M	122+27.89	-27.00	763.59	763.62
N	122+37.89	-27.00	763.56	763.59
O	122+47.89	-27.00	763.53	763.55
Q Brg. Pier 3	122+60.47	-27.00	763.49	763.49
P	122+70.47	-27.00	763.44	763.44
Q	122+80.47	-27.00	763.40	763.40
R	122+90.47	-27.00	763.35	763.35
Q Brg. S. Abut.	122+99.76	-27.00	763.30	763.30
Bk. S. Abut.	123+01.47	-27.00	763.29	763.29

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	120+74.32	-20.25	763.56	763.56
Q Brg. N. Abut.	120+76.03	-20.25	763.57	763.57
A	120+86.03	-20.25	763.61	763.61
B	120+96.03	-20.25	763.64	763.64
C	121+06.03	-20.25	763.68	763.67
Q Brg. Pier 1	121+13.90	-20.25	763.70	763.70
D	121+23.90	-20.25	763.72	763.74
E	121+33.90	-20.25	763.74	763.77
F	121+43.90	-20.25	763.76	763.80
G	121+53.90	-20.25	763.77	763.81
H	121+63.90	-20.25	763.77	763.80
I	121+73.90	-20.25	763.78	763.79
Q Brg. Pier 2	121+86.24	-20.25	763.77	763.77
J	121+96.24	-20.25	763.76	763.77
K	122+06.24	-20.25	763.75	763.78
L	122+16.24	-20.25	763.73	763.77
M	122+26.24	-20.25	763.71	763.76
N	122+36.24	-20.25	763.69	763.72
O	122+46.24	-20.25	763.66	763.68
Q Brg. Pier 3	122+58.82	-20.25	763.61	763.61
P	122+68.82	-20.25	763.57	763.57
Q	122+78.82	-20.25	763.53	763.53
R	122+88.82	-20.25	763.48	763.48
Q Brg. S. Abut.	122+98.11	-20.25	763.43	763.43
Bk. S. Abut.	122+99.82	-20.25	763.42	763.42

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	120+72.67	-13.50	763.65	763.65
Q Brg. N. Abut.	120+74.38	-13.50	763.66	763.66
A	120+84.38	-13.50	763.70	763.70
B	120+94.38	-13.50	763.74	763.74
C	121+04.38	-13.50	763.77	763.77
Q Brg. Pier 1	121+12.26	-13.50	763.79	763.79
D	121+22.26	-13.50	763.82	763.83
E	121+32.26	-13.50	763.84	763.87
F	121+42.26	-13.50	763.86	763.90
G	121+52.26	-13.50	763.87	763.91
H	121+62.26	-13.50	763.87	763.90
I	121+72.26	-13.50	763.88	763.89
Q Brg. Pier 2	121+84.59	-13.50	763.87	763.87
J	121+94.59	-13.50	763.87	763.88
K	122+04.59	-13.50	763.85	763.88
L	122+14.59	-13.50	763.84	763.88
M	122+24.59	-13.50	763.82	763.86
N	122+34.59	-13.50	763.79	763.83
O	122+44.59	-13.50	763.76	763.78
Q Brg. Pier 3	122+57.17	-13.50	763.72	763.72
P	122+67.17	-13.50	763.68	763.68
Q	122+77.17	-13.50	763.64	763.64
R	122+87.17	-13.50	763.59	763.59
Q Brg. S. Abut.	122+96.46	-13.50	763.54	763.54
Bk. S. Abut.	122+98.17	-13.50	763.53	763.53

Note: Offsets measured from Q roadway.

(Sheet 2 of 5)

MODEL: Default
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
 STRUCTURE NO. 072-0073**

SHEET 4 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	34
CONTRACT NO. 68C57				
ILLINOIS		FED. AID PROJECT		

NORTHBOUND P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	120+71.57	-9.00	763.72	763.72
☒ Brg. N. Abut.	120+73.28	-9.00	763.72	763.72
A	120+83.28	-9.00	763.76	763.77
B	120+93.28	-9.00	763.80	763.80
C	121+03.28	-9.00	763.84	763.83
☒ Brg. Pier 1	121+11.16	-9.00	763.86	763.86
D	121+21.16	-9.00	763.88	763.90
E	121+31.16	-9.00	763.90	763.94
F	121+41.16	-9.00	763.92	763.96
G	121+51.16	-9.00	763.93	763.97
H	121+61.16	-9.00	763.94	763.97
I	121+71.16	-9.00	763.94	763.96
☒ Brg. Pier 2	121+83.49	-9.00	763.94	763.94
J	121+93.49	-9.00	763.93	763.94
K	122+03.49	-9.00	763.92	763.95
L	122+13.49	-9.00	763.91	763.95
M	122+23.49	-9.00	763.89	763.93
N	122+33.49	-9.00	763.86	763.90
O	122+43.49	-9.00	763.83	763.85
☒ Brg. Pier 3	122+56.07	-9.00	763.79	763.79
P	122+66.07	-9.00	763.75	763.75
Q	122+76.07	-9.00	763.71	763.71
R	122+86.07	-9.00	763.66	763.66
☒ Brg. S. Abut.	122+95.36	-9.00	763.61	763.61
Bk. S. Abut.	122+97.07	-9.00	763.60	763.60

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	120+71.02	-6.75	763.75	763.75
☒ Brg. N. Abut.	120+72.73	-6.75	763.75	763.75
A	120+82.73	-6.75	763.80	763.80
B	120+92.73	-6.75	763.83	763.83
C	121+02.73	-6.75	763.87	763.86
☒ Brg. Pier 1	121+10.61	-6.75	763.89	763.89
D	121+20.61	-6.75	763.92	763.93
E	121+30.61	-6.75	763.94	763.97
F	121+40.61	-6.75	763.95	764.00
G	121+50.61	-6.75	763.97	764.01
H	121+60.61	-6.75	763.97	764.00
I	121+70.61	-6.75	763.98	763.99
☒ Brg. Pier 2	121+82.94	-6.75	763.98	763.98
J	121+92.94	-6.75	763.97	763.98
K	122+02.94	-6.75	763.96	763.98
L	122+12.94	-6.75	763.94	763.98
M	122+22.94	-6.75	763.92	763.97
N	122+32.94	-6.75	763.90	763.93
O	122+42.94	-6.75	763.87	763.89
☒ Brg. Pier 3	122+55.52	-6.75	763.83	763.83
P	122+65.52	-6.75	763.79	763.79
Q	122+75.52	-6.75	763.75	763.75
R	122+85.52	-6.75	763.70	763.70
☒ Brg. S. Abut.	122+94.82	-6.75	763.65	763.65
Bk. S. Abut.	122+96.52	-6.75	763.64	763.64

☒ ROADWAY & BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	120+69.38	0.00	763.84	763.84
☒ Brg. N. Abut.	120+71.08	0.00	763.85	763.85
A	120+81.08	0.00	763.89	763.89
B	120+91.08	0.00	763.93	763.93
C	121+01.08	0.00	763.96	763.96
☒ Brg. Pier 1	121+08.96	0.00	763.99	763.99
D	121+18.96	0.00	764.01	764.03
E	121+28.96	0.00	764.04	764.07
F	121+38.96	0.00	764.05	764.10
G	121+48.96	0.00	764.07	764.11
H	121+58.96	0.00	764.07	764.10
I	121+68.96	0.00	764.08	764.09
☒ Brg. Pier 2	121+81.29	0.00	764.08	764.08
J	121+91.29	0.00	764.07	764.08
K	122+01.29	0.00	764.06	764.09
L	122+11.29	0.00	764.05	764.09
M	122+21.29	0.00	764.03	764.07
N	122+31.29	0.00	764.00	764.04
O	122+41.29	0.00	763.98	764.00
☒ Brg. Pier 3	122+53.88	0.00	763.93	763.93
P	122+63.87	0.00	763.90	763.89
Q	122+73.87	0.00	763.85	763.85
R	122+83.87	0.00	763.81	763.81
☒ Brg. S. Abut.	122+93.17	0.00	763.76	763.76
Bk. S. Abut.	122+94.87	0.00	763.75	763.75

Note: Offsets measured from ☒ roadway.

(Sheet 3 of 5)

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	PLOT DATE = 5/29/2019	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 072-0073

SHEET 5 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	35
CONTRACT NO. 68C57				
ILLINOIS		FED. AID PROJECT		

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	120+67.73	6.75	763.73	763.73
☒ Brg. N. Abut.	120+69.43	6.75	763.74	763.74
A	120+79.43	6.75	763.78	763.78
B	120+89.43	6.75	763.82	763.82
C	120+99.43	6.75	763.86	763.85
☒ Brg. Pier 1	121+07.31	6.75	763.88	763.88
D	121+17.31	6.75	763.91	763.92
E	121+27.31	6.75	763.93	763.96
F	121+37.31	6.75	763.95	763.99
G	121+47.31	6.75	763.96	764.00
H	121+57.31	6.75	763.97	764.00
I	121+67.31	6.75	763.98	763.99
☒ Brg. Pier 2	121+79.64	6.75	763.98	763.98
J	121+89.64	6.75	763.97	763.98
K	121+99.64	6.75	763.96	763.99
L	122+09.64	6.75	763.95	763.99
M	122+19.64	6.75	763.93	763.97
N	122+29.64	6.75	763.91	763.94
O	122+39.64	6.75	763.88	763.90
☒ Brg. Pier 3	122+52.23	6.75	763.84	763.84
P	122+62.23	6.75	763.80	763.80
Q	122+72.23	6.75	763.76	763.76
R	122+82.23	6.75	763.71	763.72
☒ Brg. S. Abut.	122+91.52	6.75	763.67	763.67
Bk. S. Abut.	122+93.23	6.75	763.66	763.66

SOUTHBOUND P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	120+67.18	9.00	763.70	763.70
☒ Brg. N. Abut.	120+68.89	9.00	763.70	763.70
A	120+78.89	9.00	763.75	763.75
B	120+88.89	9.00	763.79	763.78
C	120+98.89	9.00	763.82	763.82
☒ Brg. Pier 1	121+06.76	9.00	763.85	763.85
D	121+16.76	9.00	763.87	763.89
E	121+26.76	9.00	763.90	763.93
F	121+36.76	9.00	763.91	763.96
G	121+46.76	9.00	763.93	763.97
H	121+56.76	9.00	763.94	763.97
I	121+66.76	9.00	763.94	763.96
☒ Brg. Pier 2	121+79.09	9.00	763.94	763.94
J	121+89.09	9.00	763.94	763.95
K	121+99.09	9.00	763.93	763.96
L	122+09.09	9.00	763.92	763.96
M	122+19.09	9.00	763.90	763.94
N	122+29.09	9.00	763.87	763.91
O	122+39.09	9.00	763.85	763.87
☒ Brg. Pier 3	122+51.68	9.00	763.81	763.81
P	122+61.68	9.00	763.77	763.77
Q	122+71.68	9.00	763.73	763.73
R	122+81.68	9.00	763.68	763.68
☒ Brg. S. Abut.	122+90.97	9.00	763.64	763.64
Bk. S. Abut.	122+92.68	9.00	763.63	763.63

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	120+66.08	13.50	763.62	763.62
☒ Brg. N. Abut.	120+67.79	13.50	763.63	763.63
A	120+77.79	13.50	763.67	763.68
B	120+87.79	13.50	763.71	763.71
C	120+97.79	13.50	763.75	763.75
☒ Brg. Pier 1	121+05.66	13.50	763.78	763.78
D	121+15.66	13.50	763.80	763.82
E	121+25.66	13.50	763.83	763.86
F	121+35.66	13.50	763.85	763.89
G	121+45.66	13.50	763.86	763.90
H	121+55.66	13.50	763.87	763.90
I	121+65.66	13.50	763.88	763.89
☒ Brg. Pier 2	121+77.99	13.50	763.88	763.88
J	121+87.99	13.50	763.87	763.88
K	121+97.99	13.50	763.86	763.89
L	122+07.99	13.50	763.85	763.89
M	122+17.99	13.50	763.83	763.88
N	122+27.99	13.50	763.81	763.85
O	122+37.99	13.50	763.78	763.80
☒ Brg. Pier 3	122+50.58	13.50	763.74	763.74
P	122+60.58	13.50	763.71	763.70
Q	122+70.58	13.50	763.67	763.67
R	122+80.58	13.50	763.62	763.62
☒ Brg. S. Abut.	122+89.87	13.50	763.58	763.58
Bk. S. Abut.	122+91.58	13.50	763.57	763.57

Note: Offsets measured from ☒ roadway.

(Sheet 4 of 5)

MODEL: Default
FILE NAME: E:\0936-12\StructG_SN_072-0073\4_Final Design\Design_Plans\CADD_Sheets\072-0073-D468C57-006-TopOfSlabElev4.dgn

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	PLOT DATE = 5/29/2019	CHECKED - MTH	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 072-0073**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	36
CONTRACT NO. 68C57				
SHEET 6 OF 33 SHEETS		ILLINOIS FED. AID PROJECT		

BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	120+64.43	20.25	763.51	763.51
☒ Brg. N. Abut.	120+66.14	20.25	763.52	763.52
A	120+76.14	20.25	763.57	763.57
B	120+86.14	20.25	763.61	763.61
C	120+96.14	20.25	763.64	763.64
☒ Brg. Pier 1	121+04.01	20.25	763.67	763.67
D	121+14.01	20.25	763.70	763.71
E	121+24.01	20.25	763.72	763.75
F	121+34.01	20.25	763.74	763.78
G	121+44.01	20.25	763.76	763.80
H	121+54.01	20.25	763.77	763.80
I	121+64.01	20.25	763.77	763.79
☒ Brg. Pier 2	121+76.35	20.25	763.77	763.77
J	121+86.35	20.25	763.77	763.78
K	121+96.35	20.25	763.76	763.79
L	122+06.35	20.25	763.75	763.79
M	122+16.35	20.25	763.73	763.78
N	122+26.35	20.25	763.71	763.75
O	122+36.35	20.25	763.69	763.71
☒ Brg. Pier 3	122+48.93	20.25	763.65	763.65
P	122+58.93	20.25	763.61	763.61
Q	122+68.93	20.25	763.57	763.57
R	122+78.93	20.25	763.53	763.53
☒ Brg. S. Abut.	122+88.22	20.25	763.48	763.48
Bk. S. Abut.	122+89.93	20.25	763.47	763.47

BEAM 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	120+62.78	27.00	763.38	763.38
☒ Brg. N. Abut.	120+64.49	27.00	763.39	763.39
A	120+74.49	27.00	763.44	763.44
B	120+84.49	27.00	763.48	763.48
C	120+94.49	27.00	763.52	763.51
☒ Brg. Pier 1	121+02.36	27.00	763.54	763.54
D	121+12.36	27.00	763.57	763.58
E	121+22.36	27.00	763.60	763.62
F	121+32.36	27.00	763.62	763.65
G	121+42.36	27.00	763.63	763.67
H	121+52.36	27.00	763.64	763.67
I	121+62.36	27.00	763.65	763.66
☒ Brg. Pier 2	121+74.70	27.00	763.65	763.65
J	121+84.70	27.00	763.65	763.66
K	121+94.70	27.00	763.64	763.67
L	122+04.70	27.00	763.63	763.67
M	122+14.70	27.00	763.62	763.65
N	122+24.70	27.00	763.60	763.62
O	122+34.70	27.00	763.57	763.59
☒ Brg. Pier 3	122+47.28	27.00	763.53	763.53
P	122+57.28	27.00	763.50	763.49
Q	122+67.28	27.00	763.46	763.46
R	122+77.28	27.00	763.41	763.41
☒ Brg. S. Abut.	122+86.57	27.00	763.37	763.37
Bk. S. Abut.	122+88.28	27.00	763.36	763.36

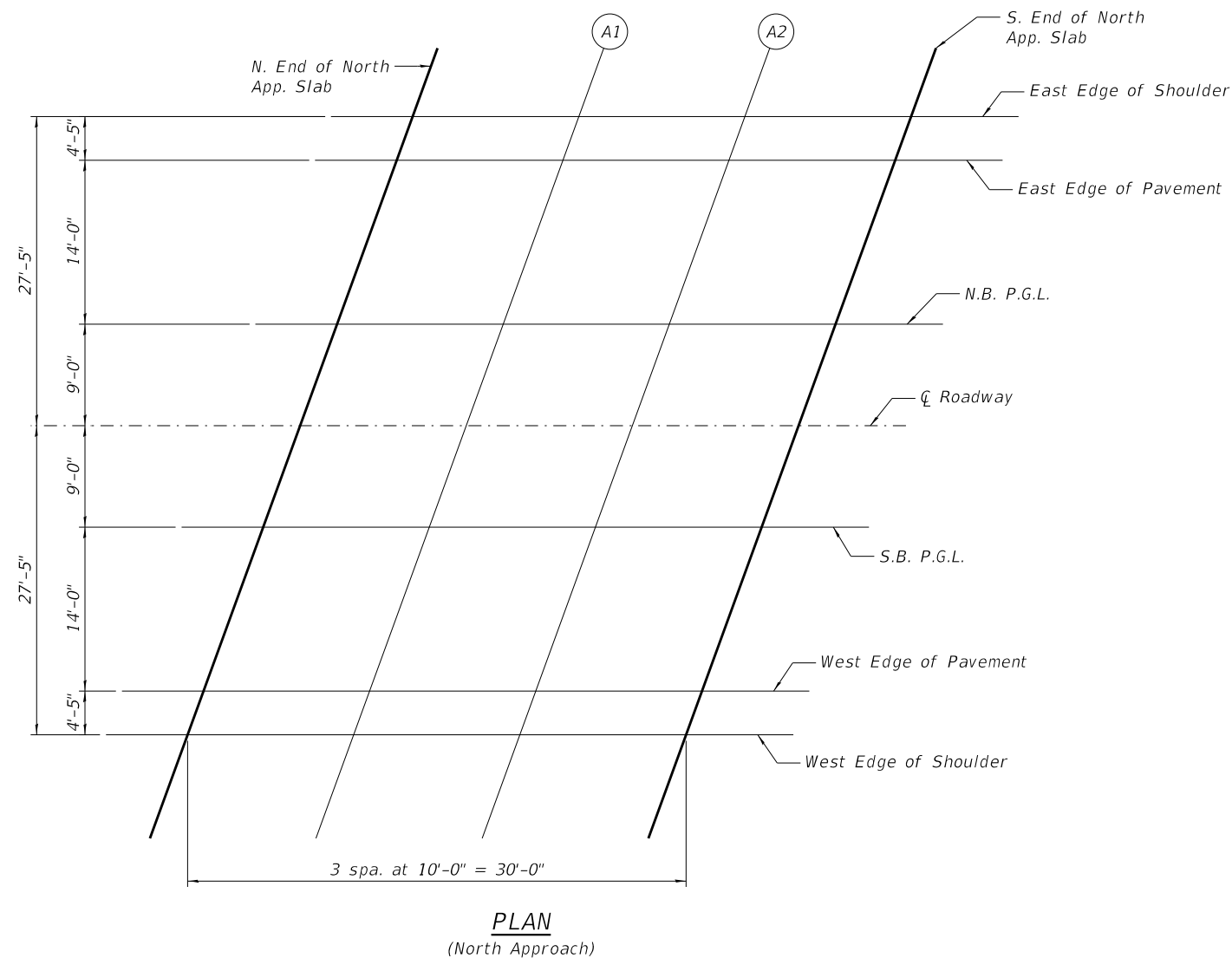
Note: Offsets measured from ☒ roadway.

(Sheet 5 of 5)

MODEL: Default
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 LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - MTH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATIONS STRUCTURE NO. 072-0073	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - VPT	REVISED -			74	(72-3HB)BRR;130RS-6	PEORIA	83	37
	PLOT DATE = 5/29/2019	DRAWN - CGY	REVISED -			CONTRACT NO. 68C57				
		CHECKED - MTH	REVISED -			SHEET 7 OF 33 SHEETS				
						ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE NAME: E:\0936-12\StructG - SN 072-0073\4 - Final Design\Design Plans\CADD_Sheets\072-0073-D468C57-008-TopOfApprSlabElev1.dgn



EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End of North App. Slab	120+47.10	-27.42	763.29
A1	120+57.10	-27.42	763.35
A2	120+67.10	-27.42	763.40
S. End of North App. Slab	120+77.10	-27.42	763.44

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End of North App. Slab	120+46.02	-23.00	763.38
A1	120+56.02	-23.00	763.43
A2	120+66.02	-23.00	763.48
S. End of North App. Slab	120+76.02	-23.00	763.52

N.B. P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
N. End of North App. Slab	120+42.60	-9.00	763.57
A1	120+52.60	-9.00	763.62
A2	120+62.60	-9.00	763.67
S. End of North App. Slab	120+72.60	-9.00	763.72

CL ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
N. End of North App. Slab	120+40.40	0.00	763.69
A1	120+50.40	0.00	763.75
A2	120+60.40	0.00	763.80
S. End of North App. Slab	120+70.40	0.00	763.84

S.B. P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
N. End of North App. Slab	120+38.21	9.00	763.54
A1	120+48.21	9.00	763.60
A2	120+58.21	9.00	763.65
S. End of North App. Slab	120+68.21	9.00	763.70

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End of North App. Slab	120+34.79	23.00	763.31
A1	120+44.79	23.00	763.37
A2	120+54.79	23.00	763.42
S. End of North App. Slab	120+64.79	23.00	763.47

WEST EDGE OF SHOULDER

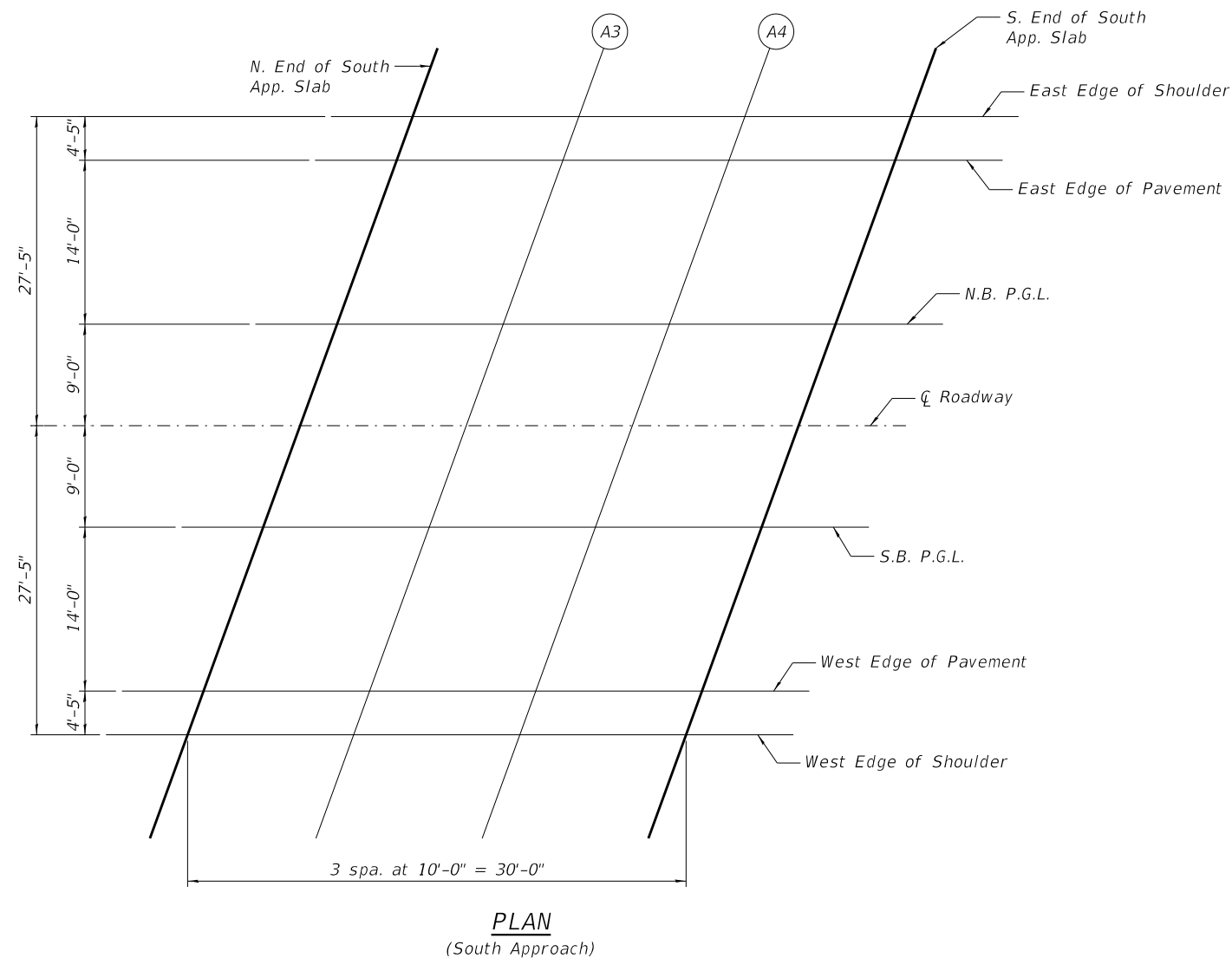
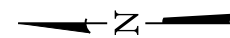
Location	Station	Offset	Theoretical Grade Elevations
N. End of North App. Slab	120+33.71	27.42	763.21
A1	120+43.71	27.42	763.27
A2	120+53.71	27.42	763.33
S. End of North App. Slab	120+63.71	27.42	763.38

Note:
 Offsets measured from CL roadway.

USER NAME =	DESIGNED - MTH	REVISED -
	CHECKED - VPT	REVISED -
PLOT SCALE =	DRAWN - CGY	REVISED -
PLOT DATE = 5/29/2019	CHECKED - MTH	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	38
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE NAME: E:\0936-12\StructG - SN 072-0073\4 - Final Design\Design Plans\CADD_Sheets\072-0073-D468C57-009-TopOfApprSlabElev2.dgn



EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End of South App. Slab	123+00.54	-27.42	763.29
A3	123+10.54	-27.42	763.23
A4	123+20.54	-27.42	763.17
S. End of South App. Slab	123+30.54	-27.42	763.10

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End of South App. Slab	122+99.46	-23.00	763.38
A3	123+09.46	-23.00	763.32
A4	123+19.46	-23.00	763.26
S. End of South App. Slab	123+29.46	-23.00	763.19

N.B. P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
N. End of South App. Slab	122+96.04	-9.00	763.61
A3	123+06.04	-9.00	763.55
A4	123+16.04	-9.00	763.49
S. End of South App. Slab	123+26.04	-9.00	763.43

CL ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
N. End of South App. Slab	122+93.85	0.00	763.76
A3	123+03.85	0.00	763.70
A4	123+13.85	0.00	763.64
S. End of South App. Slab	123+23.85	0.00	763.58

S.B. P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
N. End of South App. Slab	122+91.65	9.00	763.63
A3	123+01.65	9.00	763.58
A4	123+11.65	9.00	763.52
S. End of South App. Slab	123+21.65	9.00	763.46

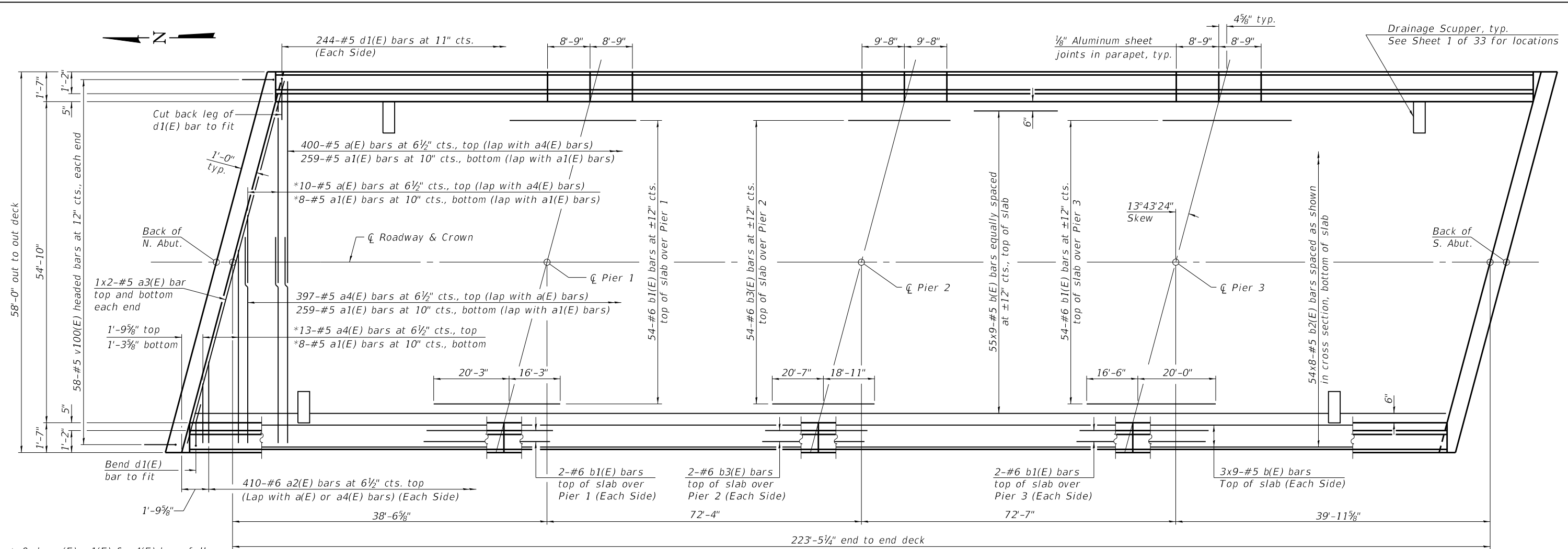
WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End of South App. Slab	122+88.23	23.00	763.44
A3	122+98.23	23.00	763.39
A4	123+08.23	23.00	763.33
S. End of South App. Slab	123+18.23	23.00	763.27

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End of South App. Slab	122+87.15	27.42	763.36
A3	122+97.15	27.42	763.31
A4	123+07.15	27.42	763.25
S. End of South App. Slab	123+17.15	27.42	763.19

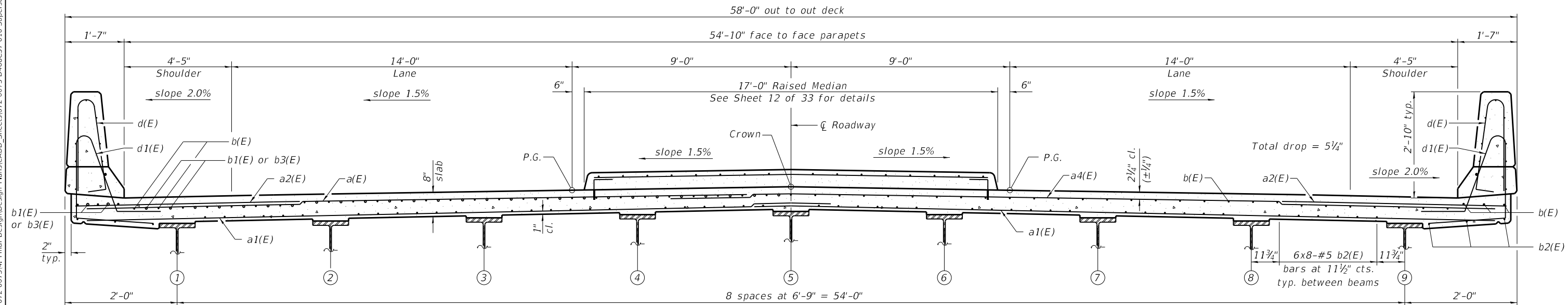
Note:
 Offsets measured from CL roadway.



* Order a(E), a1(E) & a4(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

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

Notes:
See sheet 11 and 12 of 33 for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



MODEL: Default
FILE NAME: E:\0936-12\StructG. SN 072-0073\4. Final Design\Design Plans\CADD_Sheets\072-0073-D468C57-010-Superstructure.dgn

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Consulting Engineers
Springfield, Illinois

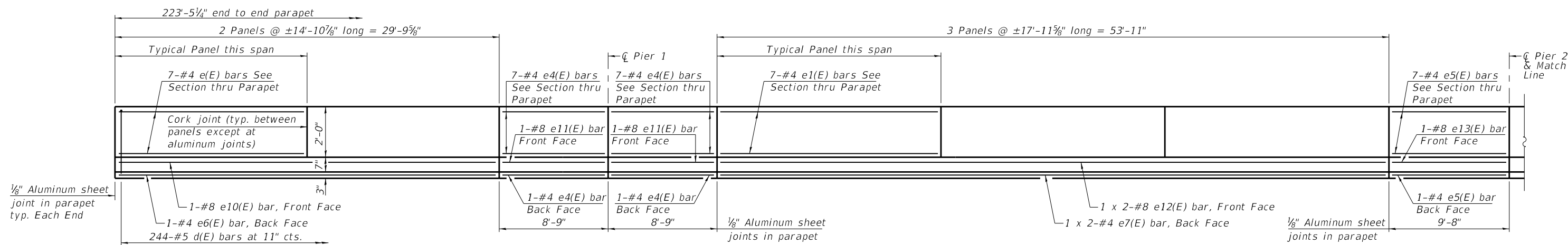
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PLOT SCALE =	CHECKED - VPT	REVISED -
PLOT DATE = 5/29/2019	DRAWN - CGY	REVISED -
	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

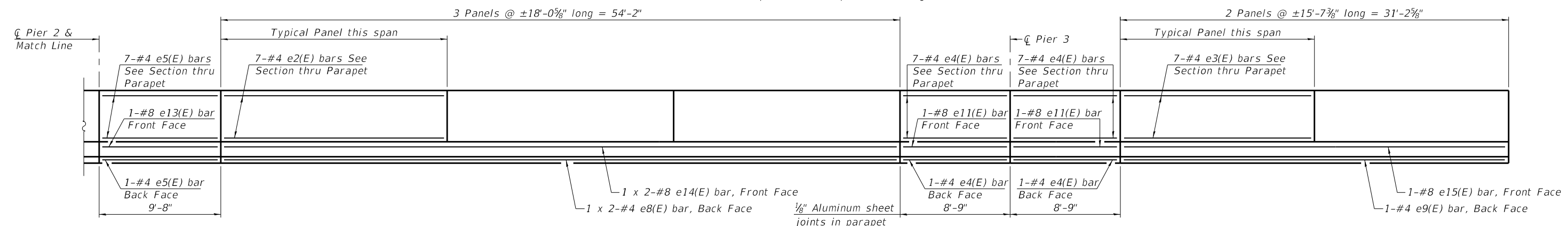
SUPERSTRUCTURE
STRUCTURE NO. 072-0073

SHEET 10 OF 33 SHEETS

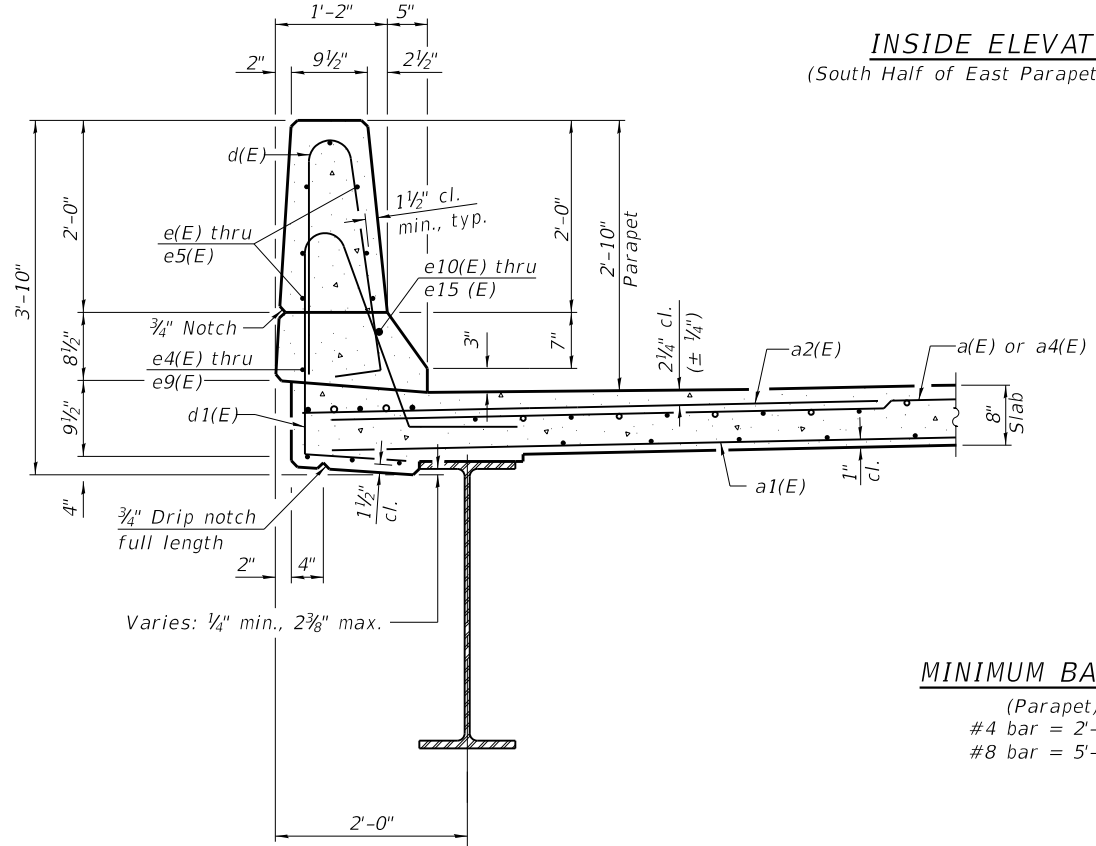
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	40
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				



INSIDE ELEVATION OF PARAPET
(North Half of East Parapet; West Parapet mirror image)

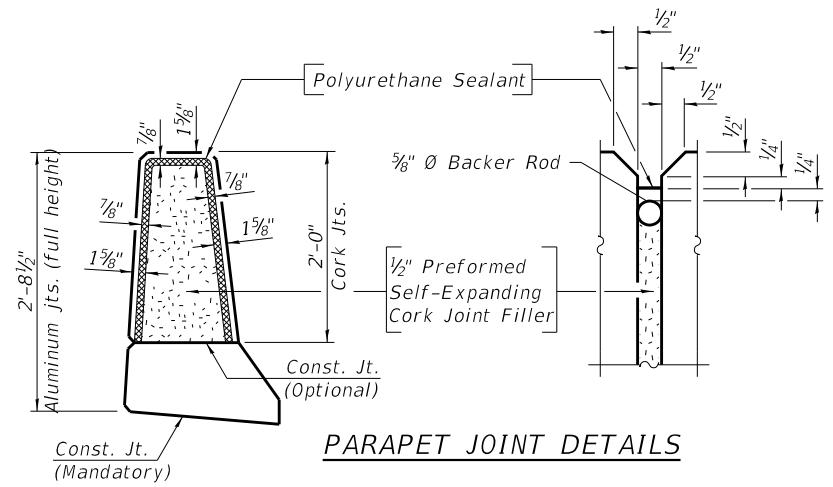


INSIDE ELEVATION OF PARAPET
(South Half of East Parapet; West Parapet mirror image)



SECTION THRU PARAPET

MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-5"
#8 bar = 5'-11"



PARAPET JOINT DETAILS

Notes:
The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

(Sheet 1 of 2)

MODEL: Default
FILE NAME: E:\0936-12\StructG. SN 072-0073\4. Final Design\Design Plans\CADD_Sheets\072-0073-D468C57-011-SuperstructureDetails.dgn

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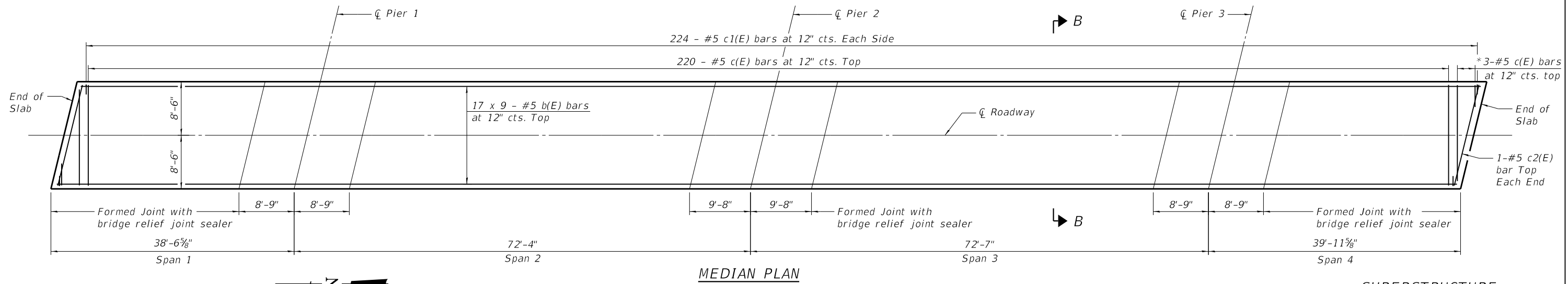
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STATE OF ILLINOIS
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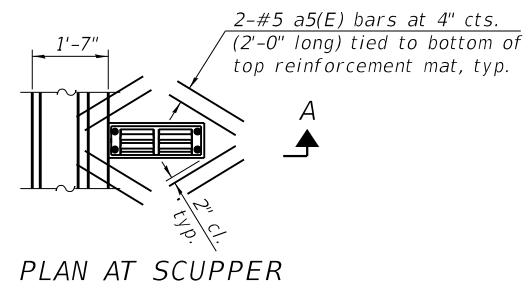
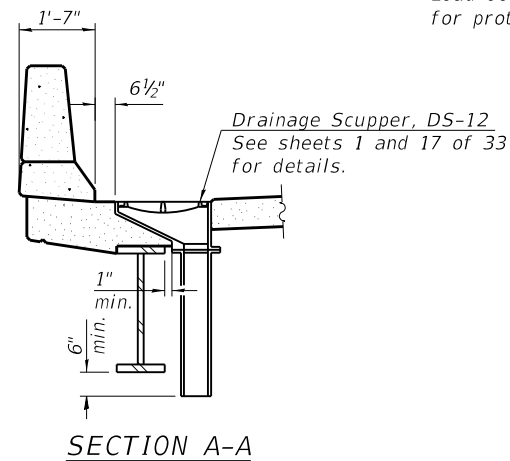
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 072-0073

SHEET 11 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	41
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				

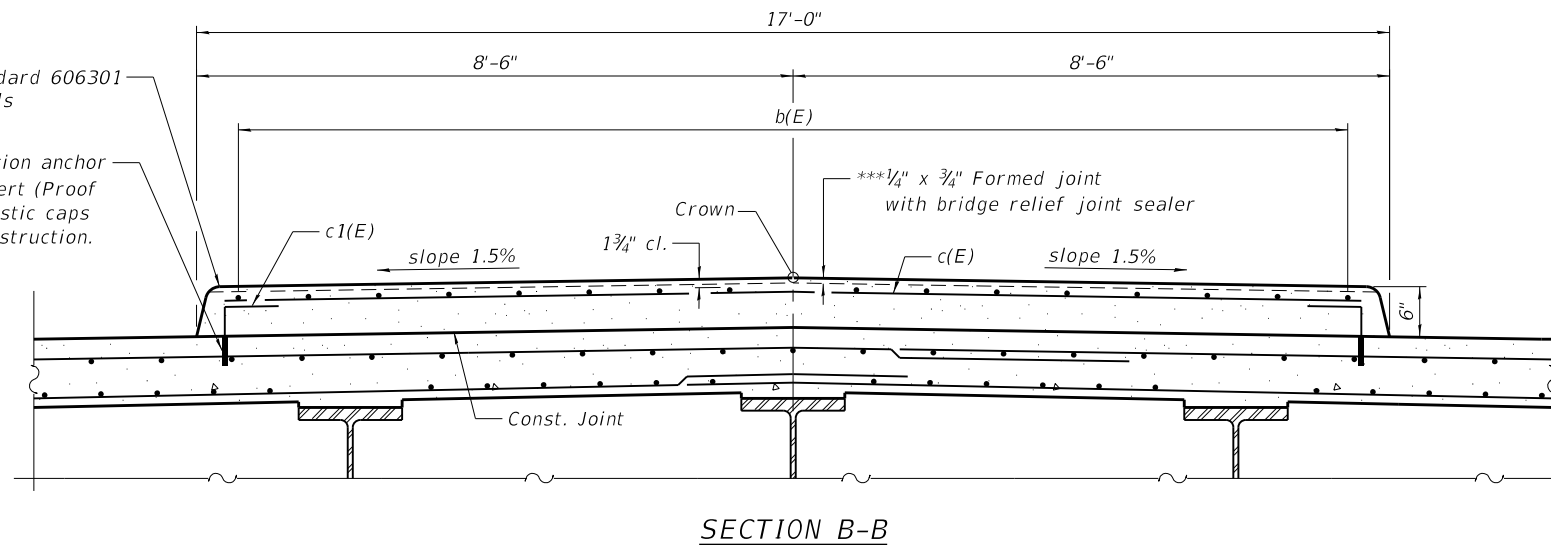


- * Order c(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.
- ** The cost of expansion anchors/inserts is included in the cost of Reinforcement Bars, Epoxy Coated.
- *** Full width - backer rod not required.

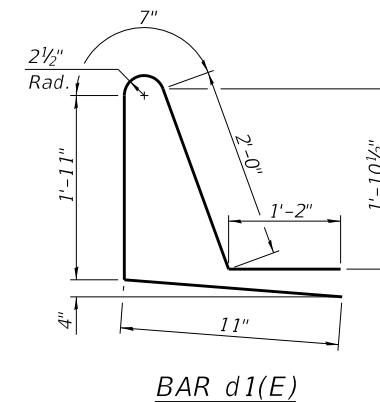
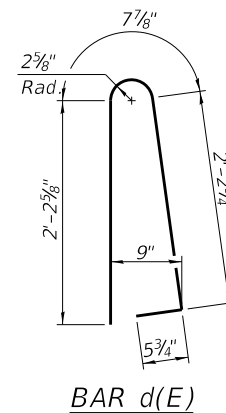
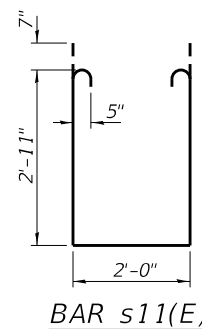
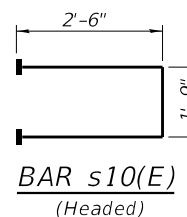
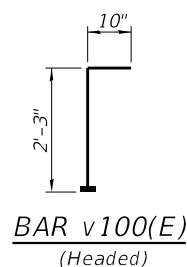
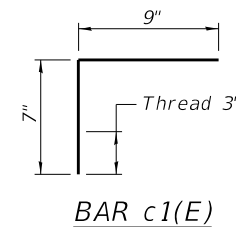


Note:
Cut longitudinal reinforcement to clear drainage scuppers.

See Standard 606301 for details
***3/4" Ø Galvanized expansion anchor or Ferrule Loop Slab Insert (Proof Load 6600lb). Provide plastic caps for protection during construction.



MINIMUM BAR LAP
(Median)
#5 bar = 3'-6"



SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	410	#5	27'-1"	—
a1(E)	534	#5	30'-5"	—
a2(E)	820	#6	6'-6"	—
a3(E)	8	#5	31'-5"	—
a4(E)	410	#5	33'-10"	—
a5(E)	32	#5	2'-0"	—
b(E)	702	#5	27'-11"	—
b1(E)	116	#6	36'-6"	—
b2(E)	432	#5	31'-0"	—
b3(E)	58	#6	39'-6"	—
c(E)	223	#5	16'-6"	—
c1(E)	448	#5	1'-4"	└
c2(E)	2	#5	17'-0"	—
d(E)	488	#5	5'-7"	└
d1(E)	488	#5	6'-7"	└
e(E)	28	#4	14'-7"	—
e1(E)	42	#4	17'-8"	—
e2(E)	42	#4	17'-9"	—
e3(E)	28	#4	15'-4"	—
e4(E)	64	#4	8'-6"	—
e5(E)	32	#4	9'-5"	—
e6(E)	2	#4	29'-6"	—
e7(E)	4	#4	28'-2"	—
e8(E)	4	#4	28'-3"	—
e9(E)	2	#4	30'-11"	—
e10(E)	2	#8	29'-6"	—
e11(E)	8	#8	8'-6"	—
e12(E)	4	#8	29'-11"	—
e13(E)	4	#8	9'-5"	—
e14(E)	4	#8	30'-0"	—
e15(E)	2	#8	30'-11"	—
m10(E)	16	#6	31'-10"	—
m11(E)	48	#6	6'-7"	—
m12(E)	12	#6	1'-7"	—
m13(E)	54	#5	4'-0"	—
s10(E)	104	#5	6'-9"	└
s11(E)	104	#5	9'-0"	└
v100(E)	116	#5	3'-1"	└
Reinforcement Bars, Epoxy Coated			Lbs.	113390
Concrete Superstructure			Cu. Yds.	490.2

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

(Sheet 2 of 2)

MODEL: Default
FILE NAME: E:\0936-12\StructG_SN_072-0073\4. Final Design\Design Plans\CADD_Sheets\072-0073-D468C57-012-SuperstructureDetails2.dgn

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PLOT DATE = 5/29/2019	DRAWN - CGY	REVISED -
	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

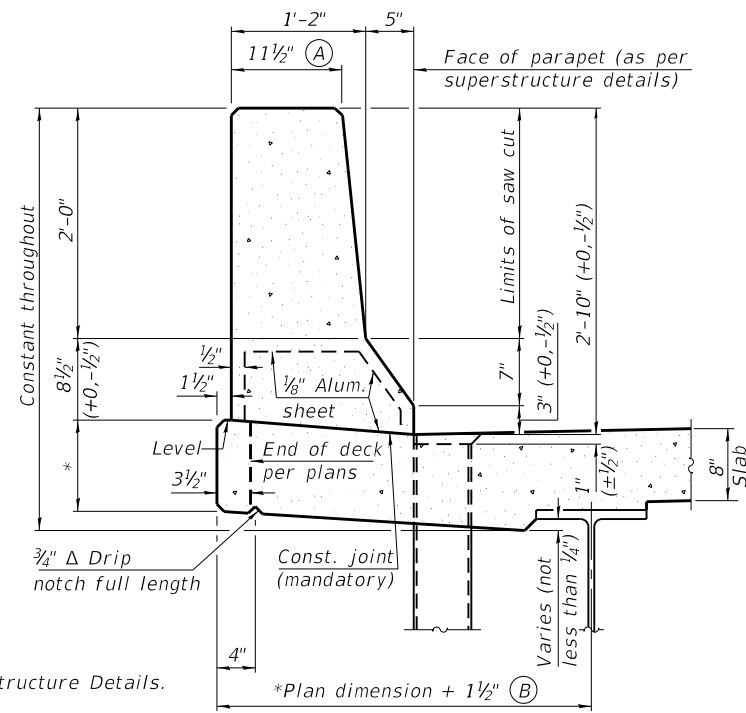
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 072-0073

SHEET 12 OF 33 SHEETS

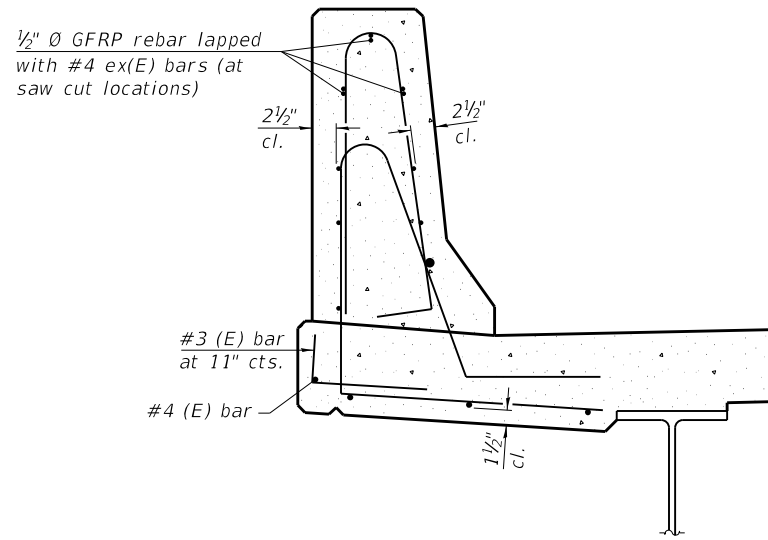
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	42
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

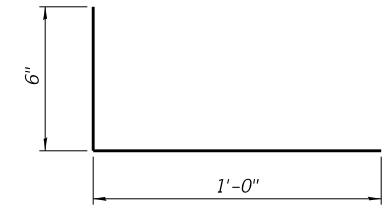
All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. for 34" parapet or = 0.0223 cu. yds./ft. for 42" parapet.
Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler.
Steel superstructure shown. Other superstructure types similar.



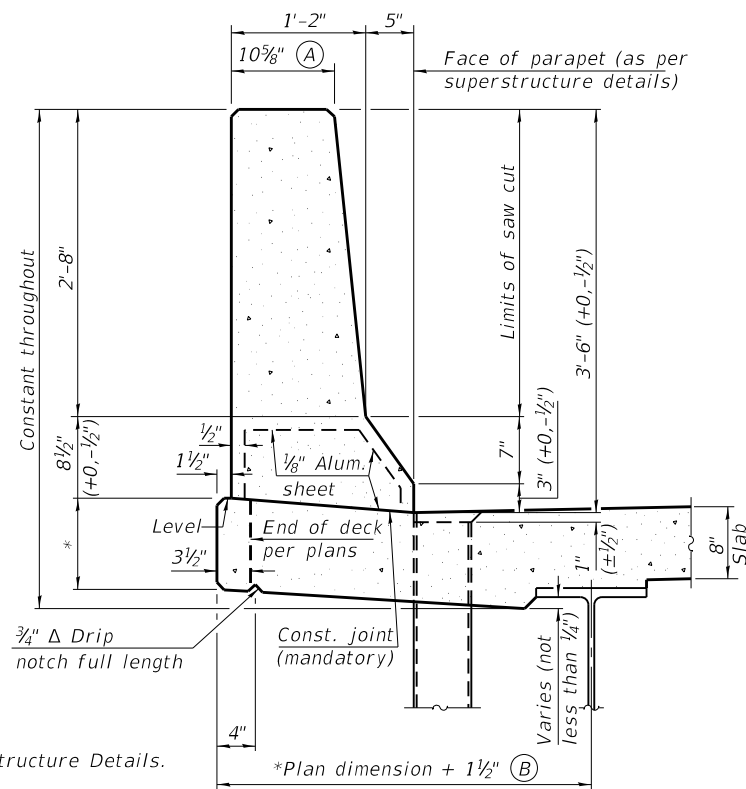
34" F SHAPE PARAPET SECTION
(Showing dimensions)



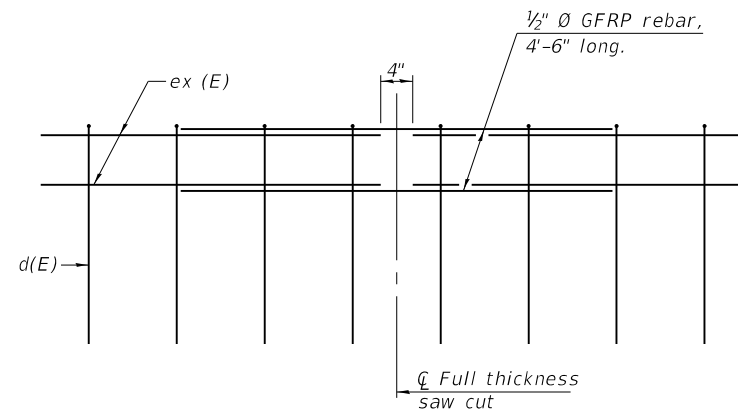
SECTION
(34" parapet shown - 42" parapet similar)
(Showing reinforcement clearances for slip forming and additional reinforcement bars)



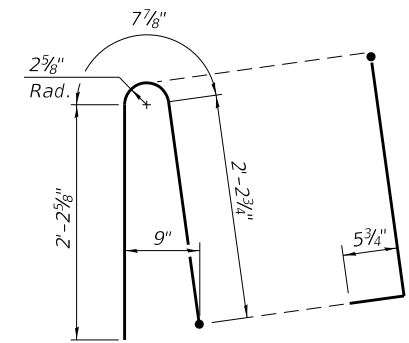
#3 (E) BAR



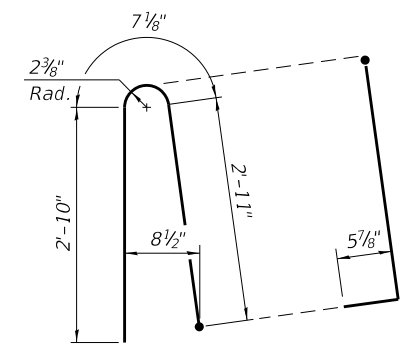
42" F SHAPE PARAPET SECTION
(Showing dimensions)



GFRP REBAR STIFFENING DETAIL
(Place as shown in parapet section at each parapet joint location.)



ALTERNATE BAR d(E)
(For 34" parapet when conduit is present)



ALTERNATE BAR d(E)
(For 42" parapet when conduit is present)

SFP 34-42

2-17-2017

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Springfield, Illinois

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PLOT SCALE =	CHECKED - VPT	REVISED -
PLOT DATE = 5/29/2019	DRAWN - CGY	REVISED -
	CHECKED - MTH	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

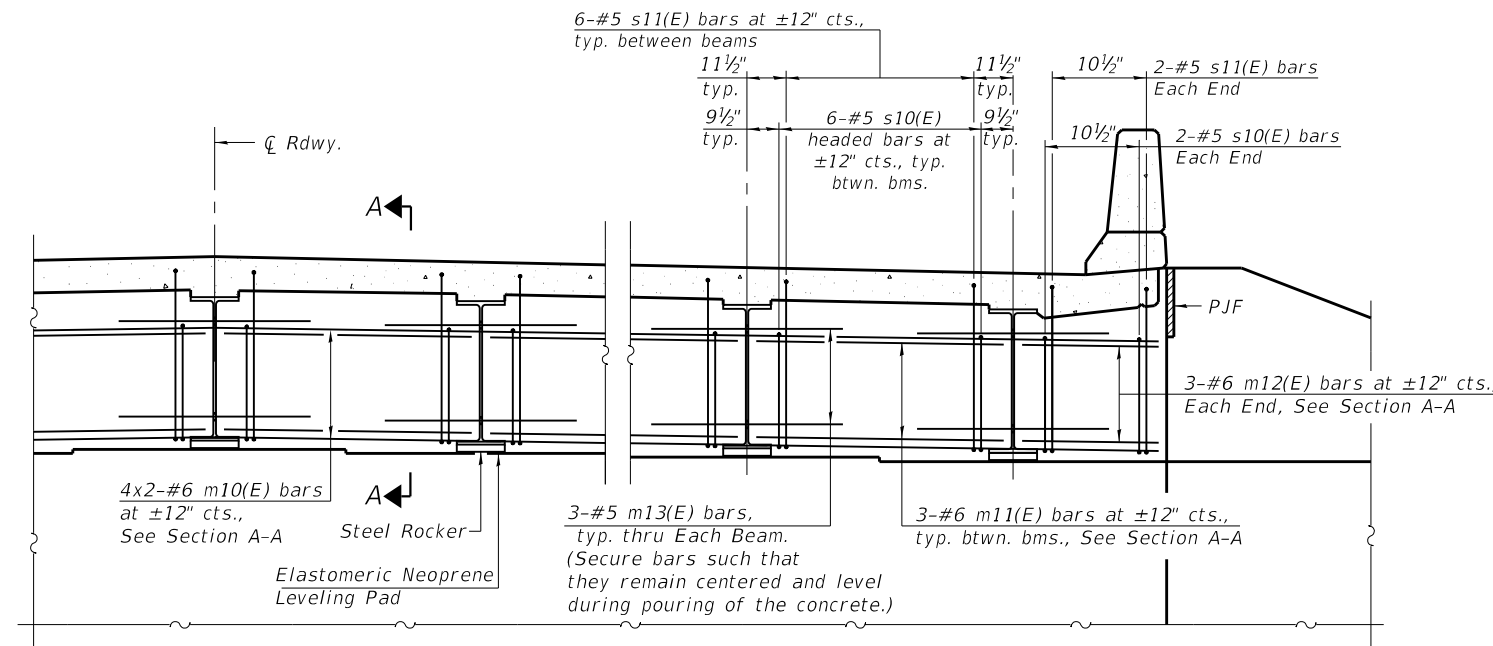
**CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 072-0073**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	43
CONTRACT NO. 68C57				

SHEET 13 OF 33 SHEETS

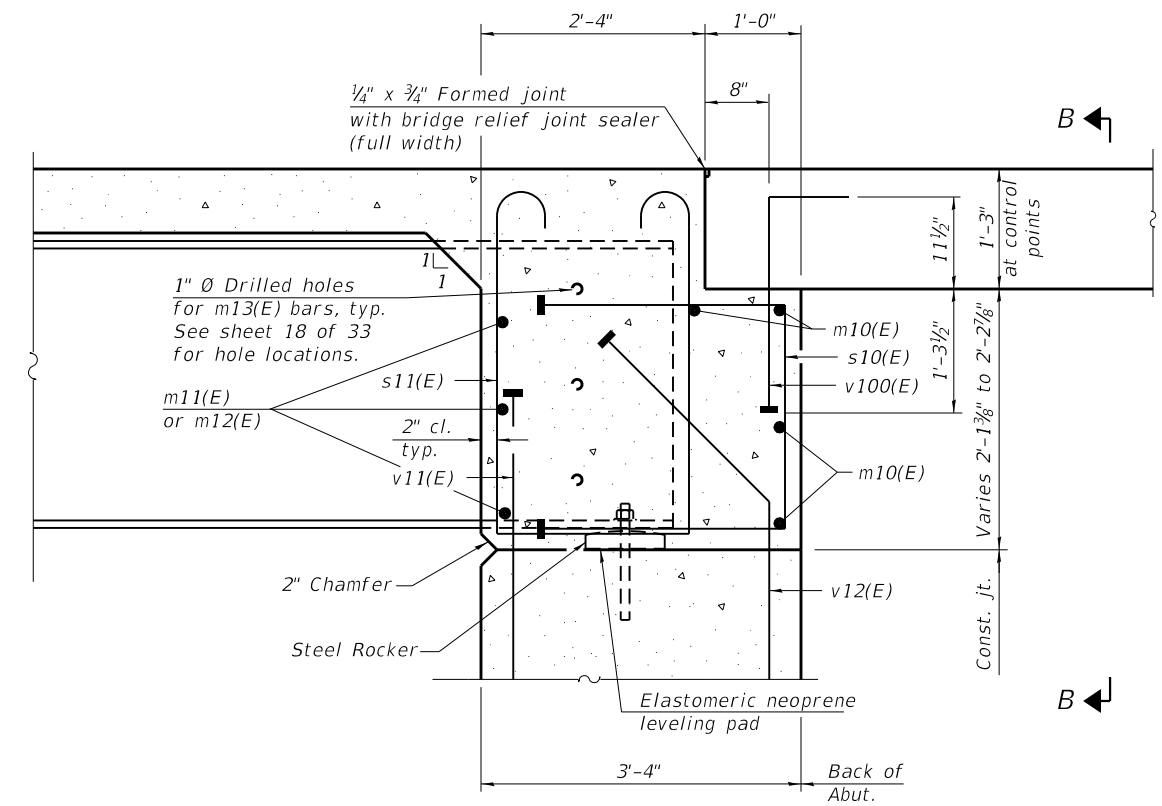
ILLINOIS FED. AID PROJECT

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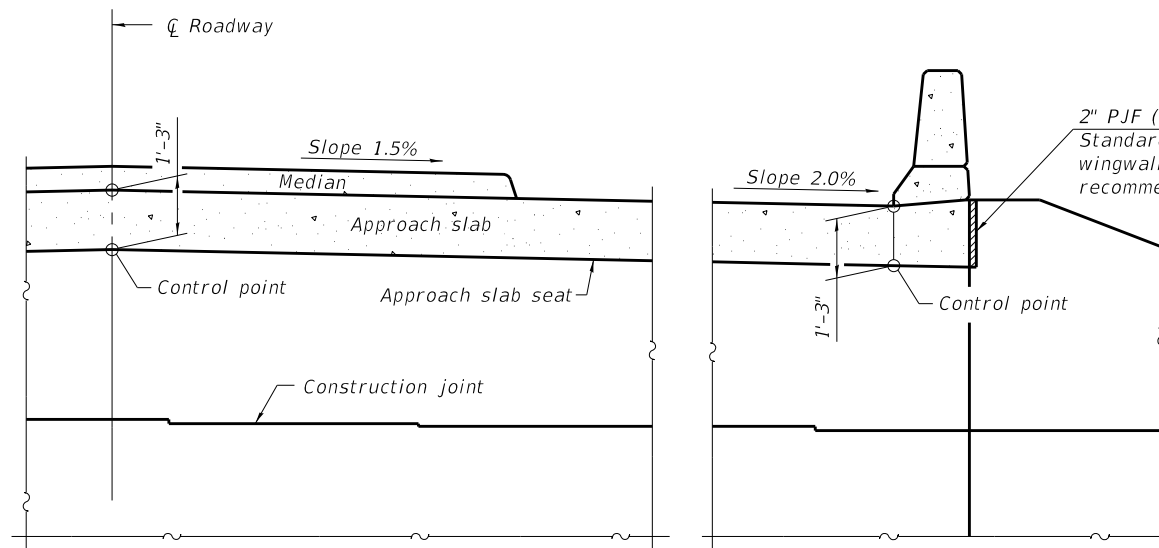


DIAPHRAGM AT ABUTMENT
(Median not shown for clarity)

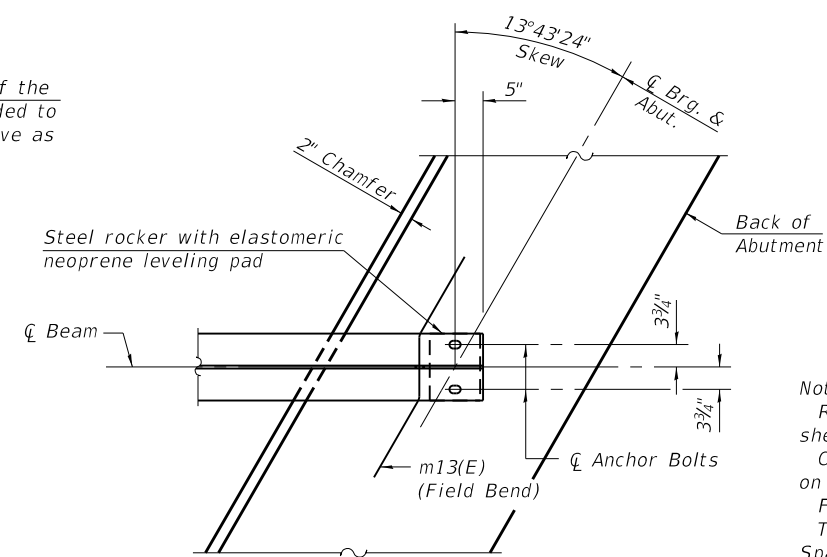
MINIMUM BAR LAP
#6 bar = 4'-0"



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



SECTION B-B



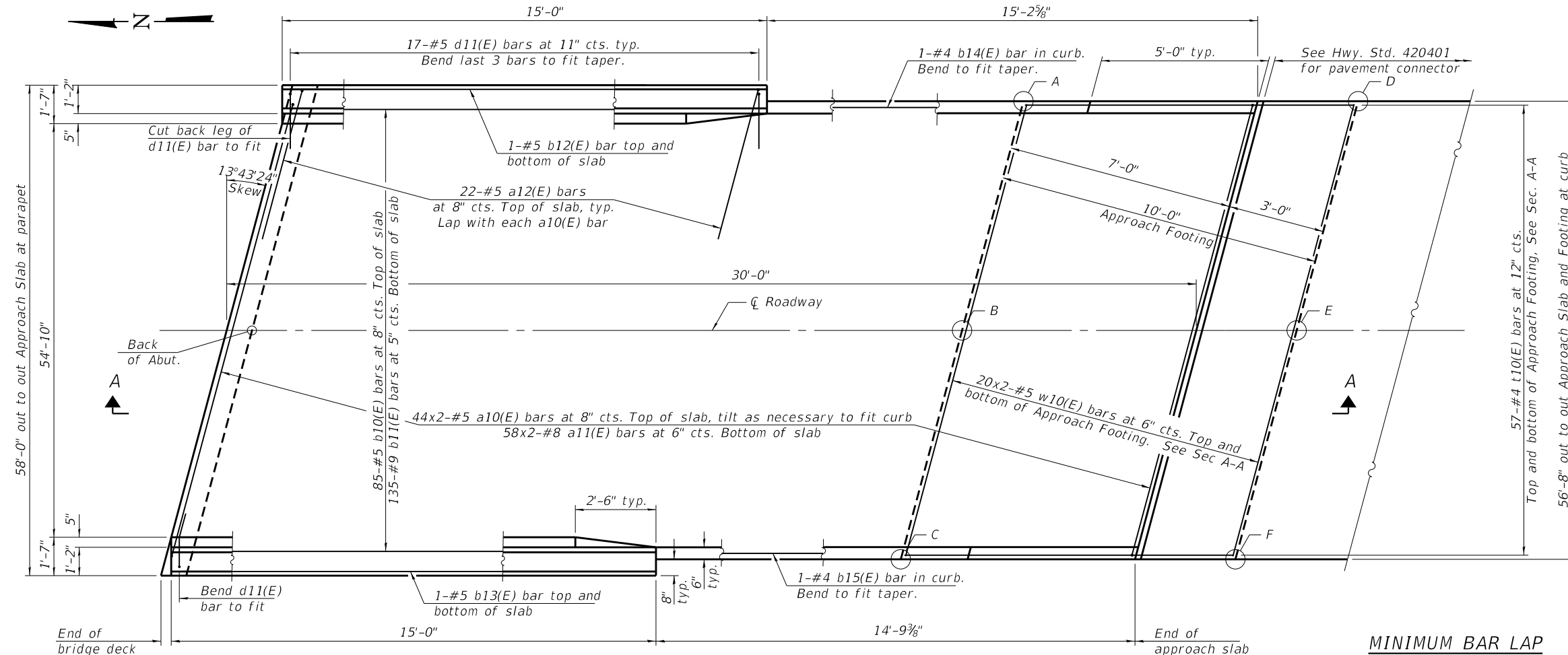
PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:
Reinforcement bars in diaphragm are billed with superstructure on sheet 12 of 33.
Concrete in diaphragm is included with Concrete Superstructure on sheet 12 of 33.
For details of bars s10(E), s11(E) and v100(E) see sheet 12 of 33.
The s10(E) and s11(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
The approach slab seat shall have a constant slope determined from the control points shown.
For bearing details see sheet 19 of 33.
Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

MODEL: Default
FILE NAME: E:\0936-12\StructG - SN 072-0073\4 - Final Design\Design Plans\CADD_Sheets\072-0073-D468C57-014-ConcreteEndDiaphragms.dgn

USER NAME =	DESIGNED - MTH	REVISED -
PLOT SCALE =	CHECKED - VPT	REVISED -
PLOT DATE = 5/29/2019	DRAWN - CGY	REVISED -
	CHECKED - MTH	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	44
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				



PLAN

(South Approach Slab Shown; North Approach Slab rotated 180°)
(Median not shown for clarity)

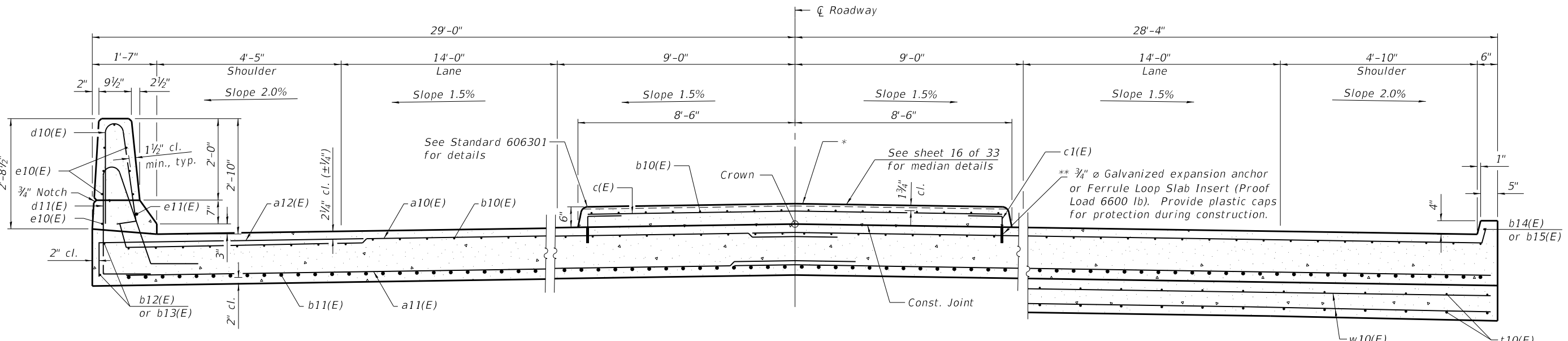
TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Point	North Approach		South Approach	
	Top	Bottom	Top	Bottom
A	761.99	761.16	761.88	761.04
B	762.48	761.65	762.37	761.54
C	762.07	761.23	761.96	761.13
D	761.93	761.09	761.81	760.97
E	762.42	761.59	762.31	761.47
F	762.01	761.18	761.90	761.07

Note:
Bars indicated thus 20x2-#5 etc. indicates 20 lines of bars with 2 lengths per line.

MINIMUM BAR LAP

- #5 bar = 3'-4" (Slab)
- #8 bar = 4'-9" (Slab)
- #5 bar = 3'-2" (Footing)



CROSS SECTION

(Looking South)

* 1/4"x3/4" Formed joint with bridge relief joint sealer at ends. Full width - backer rod not required.
** The cost of expansion anchors/inserts is included in the cost of Reinforcement Bars, Epoxy Coated.

(Sheet 1 of 2)

MODEL: Default
FILE NAME: E:\0936-12\StructG_SN_072-0073\4_Final Design\Design Plans\CADD_Sheets\072-0073-D468C57-015-BridgeApproachSlabDetails.dgn



USER NAME =	DESIGNED - MTH	REVISED -
PLOT SCALE =	CHECKED - VPT	REVISED -
PLOT DATE = 5/29/2019	DRAWN - CGY	REVISED -
	CHECKED - MTH	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 072-0073**

SHEET 15 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	45
CONTRACT NO. 68C57				

ILLINOIS FED. AID PROJECT

Notes:

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.

Parapet and median concrete shall be paid for as Concrete Superstructure.

Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

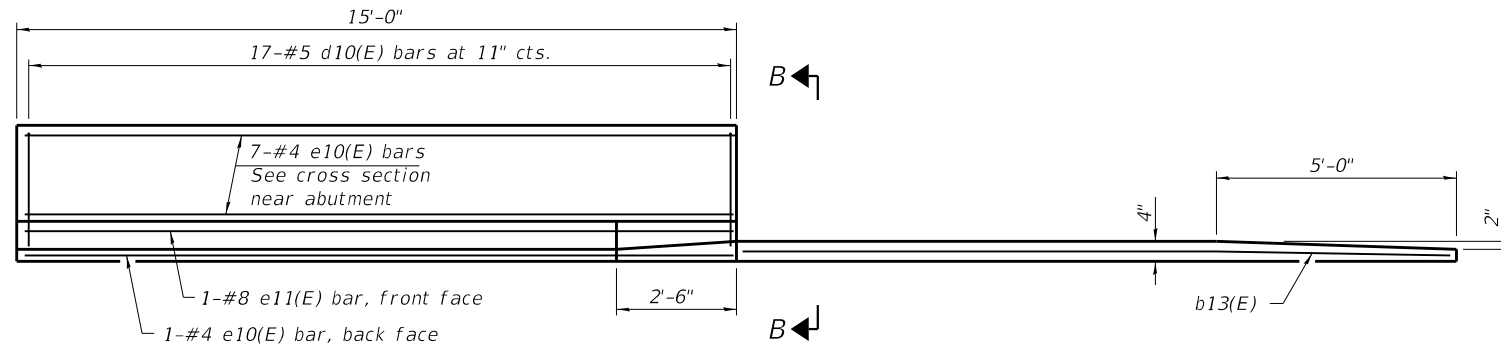
Approach footing concrete shall be paid for as Concrete Structures.

The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.

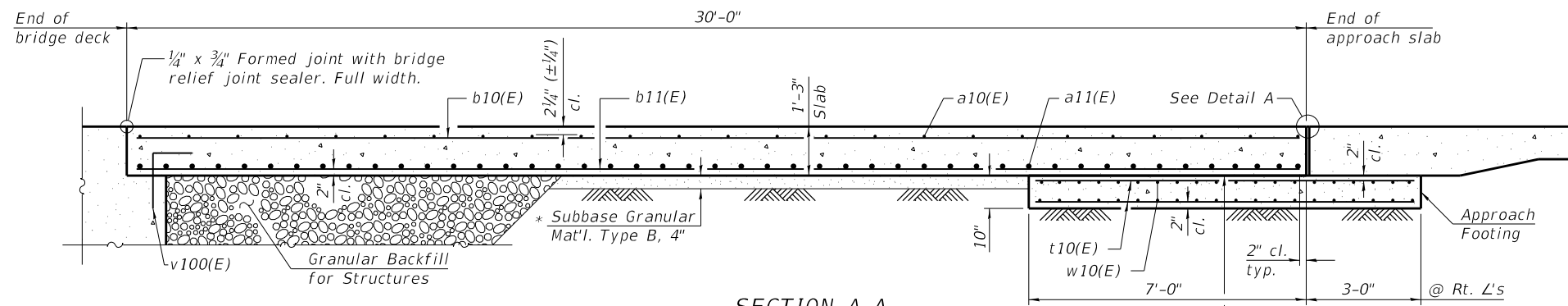
Cost of excavation for approach footing included with Concrete Structures.

For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 33.

See sheet 15 of 33 for additional median details.

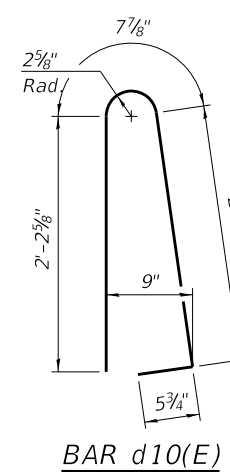


INSIDE ELEVATION OF PARAPET AND CURB

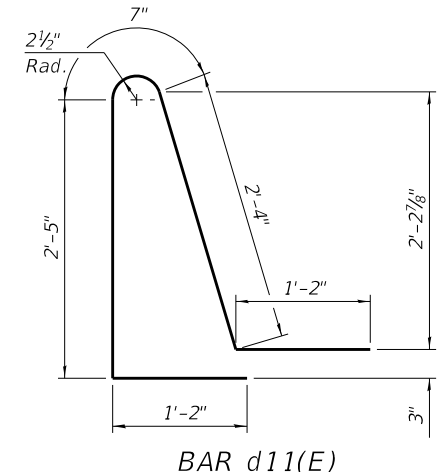


SECTION A-A
(Median not shown for clarity)

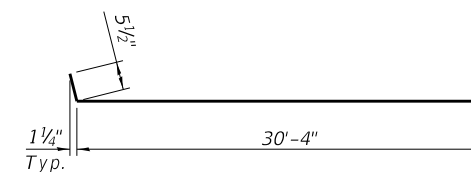
* 10 mil. Polyethylene bond breaker on steel trowel finish



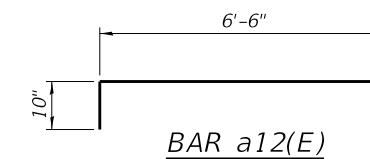
BAR d10(E)



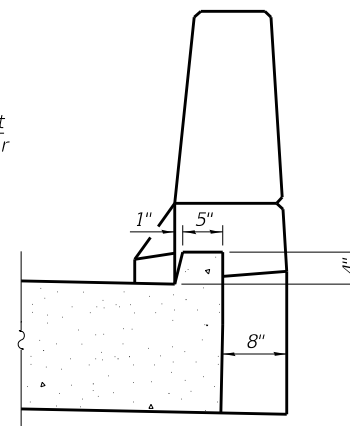
BAR d11(E)



BAR a10(E)



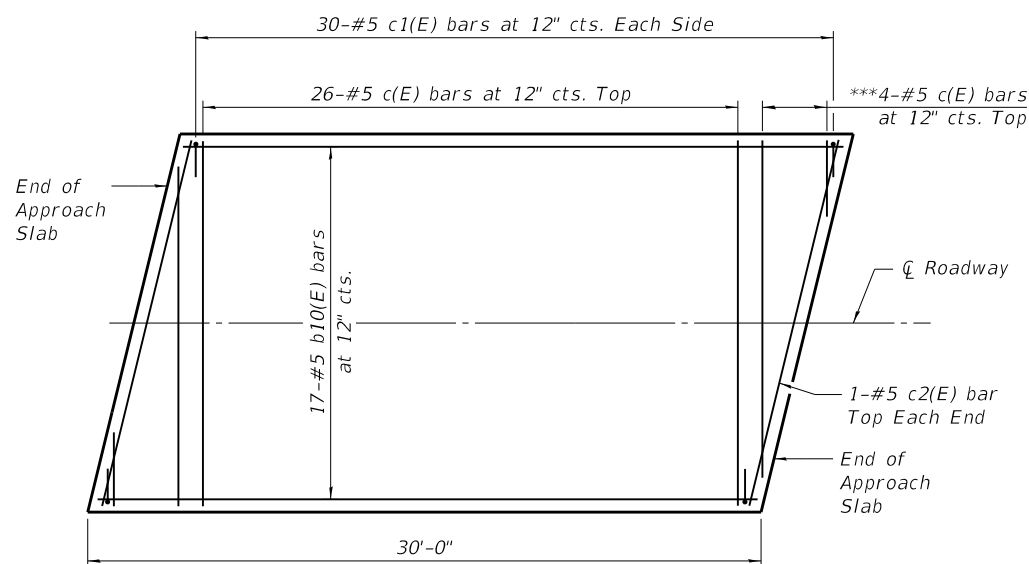
BAR a12(E)



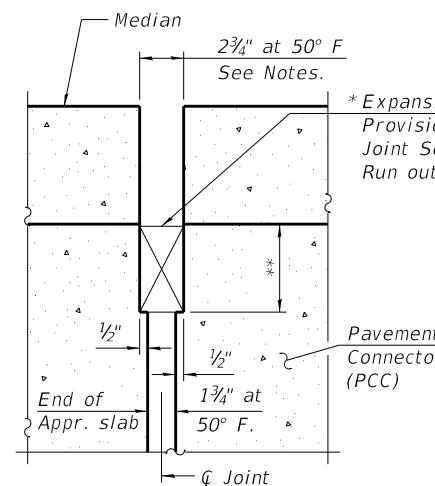
VIEW B-B

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	176	#5	30'-9"	—
a11(E)	232	#8	31'-6"	—
a12(E)	88	#5	7'-4"	—
b10(E)	204	#5	29'-8"	—
b11(E)	270	#9	29'-8"	—
b12(E)	4	#5	14'-4"	—
b13(E)	4	#5	15'-1"	—
b14(E)	2	#4	14'-11"	—
b15(E)	2	#4	14'-6"	—
c(E)	60	#5	16'-6"	—
c1(E)	120	#5	1'-4"	—
c2(E)	4	#5	17'-0"	—
d10(E)	68	#5	5'-7"	U
d11(E)	68	#5	7'-8"	U
e10(E)	32	#4	14'-8"	—
e11(E)	4	#8	14'-8"	—
t10(E)	228	#4	9'-11"	—
w10(E)	160	#5	30'-8"	—
Concrete Superstructure			Cu. Yd.	25.6
Concrete Superstructure (Approach Slab)			Cu. Yd.	159.6
Concrete Structures			Cu. Yd.	36.1
Reinforcement Bars, Epoxy Coated			Pound	68850



APPROACH MEDIAN PLAN



DETAIL A
(@ Rt. L's)

* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations

*** Order c(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

(Sheet 2 of 2)

MODEL: Default
FILE NAME: E:\0936-12\StructG_SN_072-0073\4. Final Design\Design Plans\CADD_Sheets\072-0073-D468C57-016-BridgeApproachSlabDetails2.dgn

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Springfield, Illinois

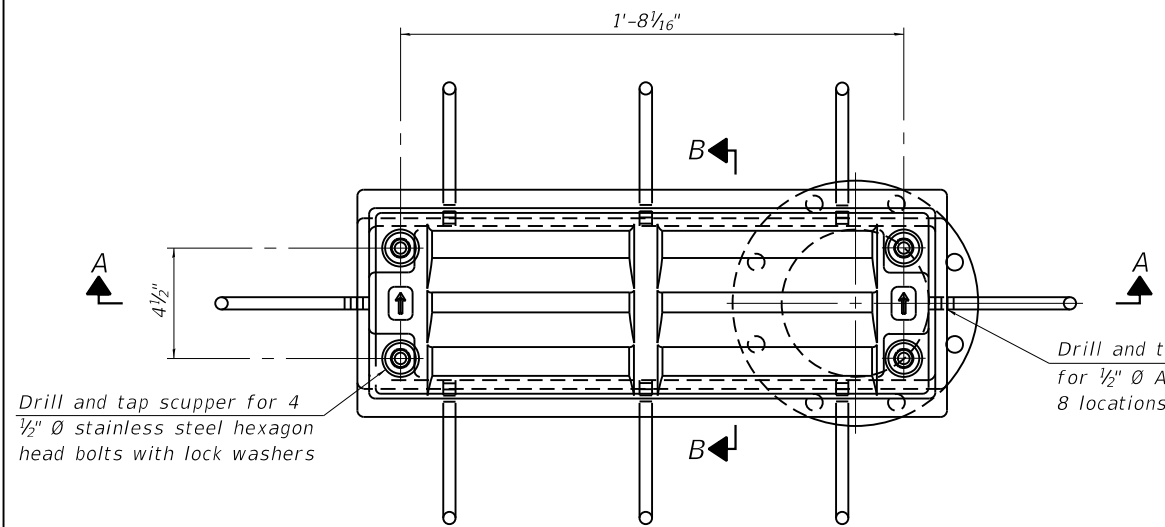
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	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

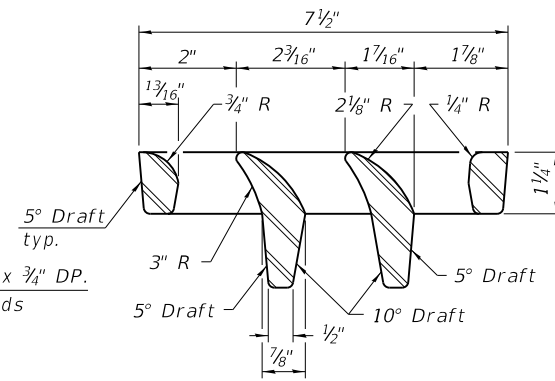
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 072-0073

SHEET 16 OF 33 SHEETS

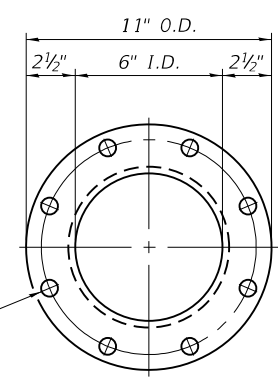
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	46
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				



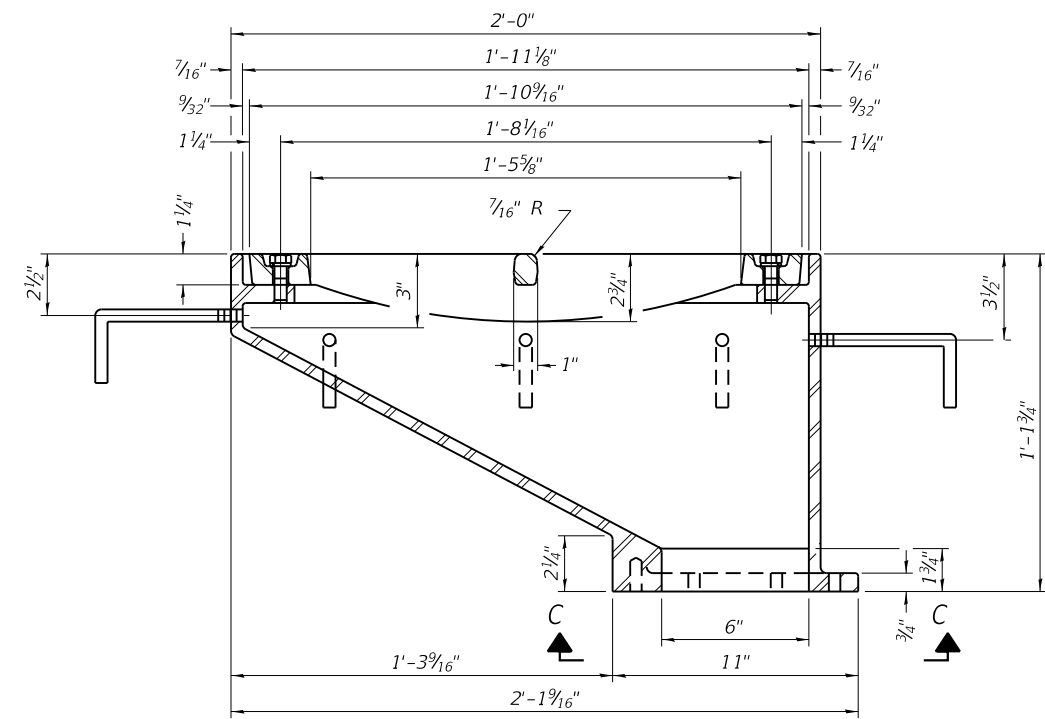
PLAN



VANE GRATE DETAIL

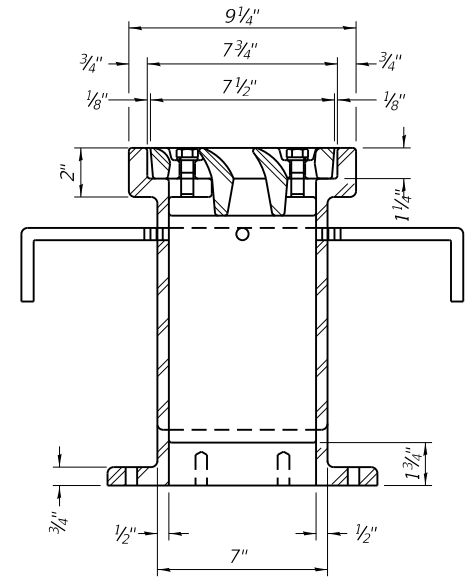


VIEW C-C

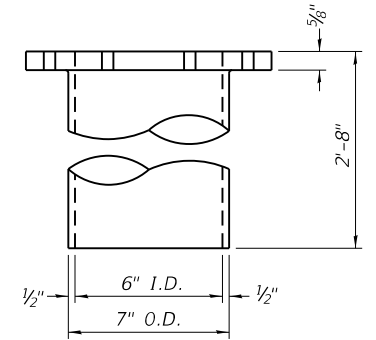


SECTION A-A

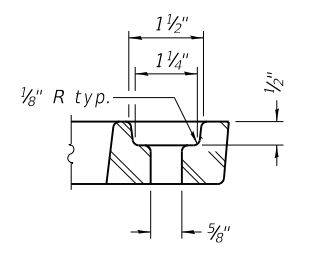
See sheet 12 of 33 for scupper location relative to parapet.



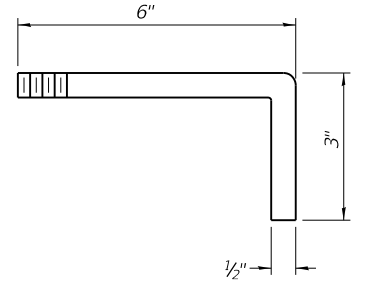
SECTION B-B



DOWNSPOUT



BOLT HOLE DETAIL



ANCHOR STUD DETAIL

Drill and tap 8 holes for 1/2"-13 bolts on a 9 1/2" Ø bolt circle. (2 blind holes are 1 1/4" deep, 6 thru holes)

Notes:
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
 Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.
 Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.
 As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-12.
 Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-12	Each	4

MODEL: Default
 FILE NAME: E:\0936-12\StructC.G. SN 072-0073\4. Final Design\Design Plans\CADD_Sheets\072-0073-D468C57-017-DrainageScupperDS-12.dgn

DS-12

2-17-2017

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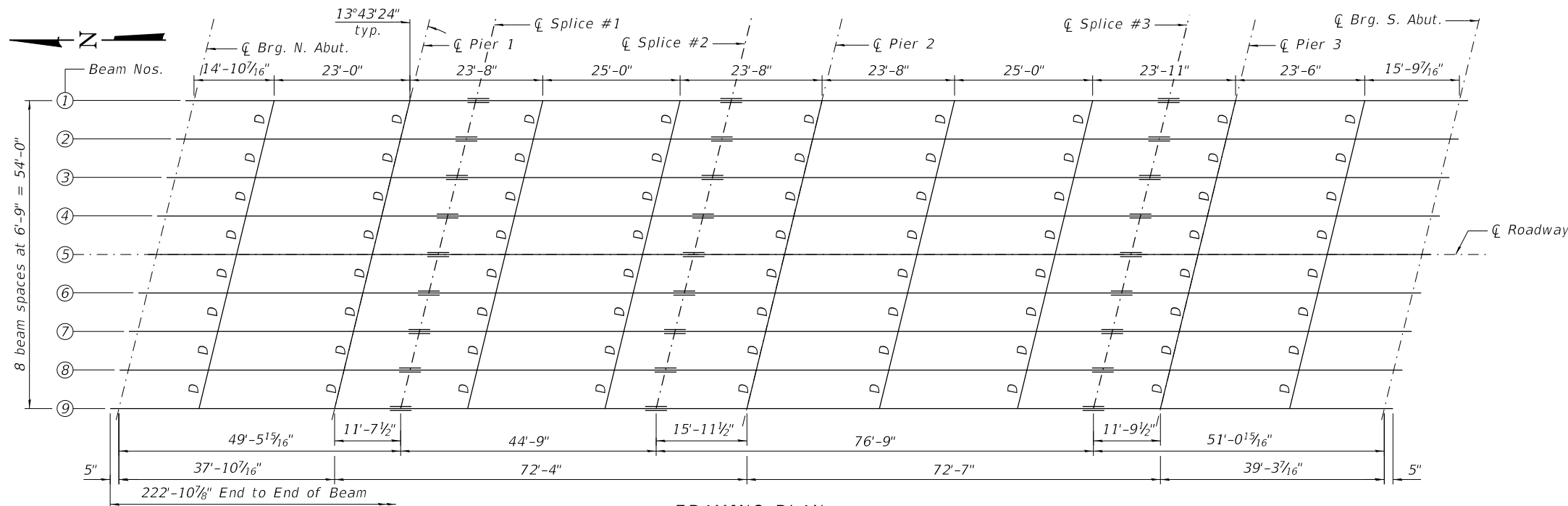
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

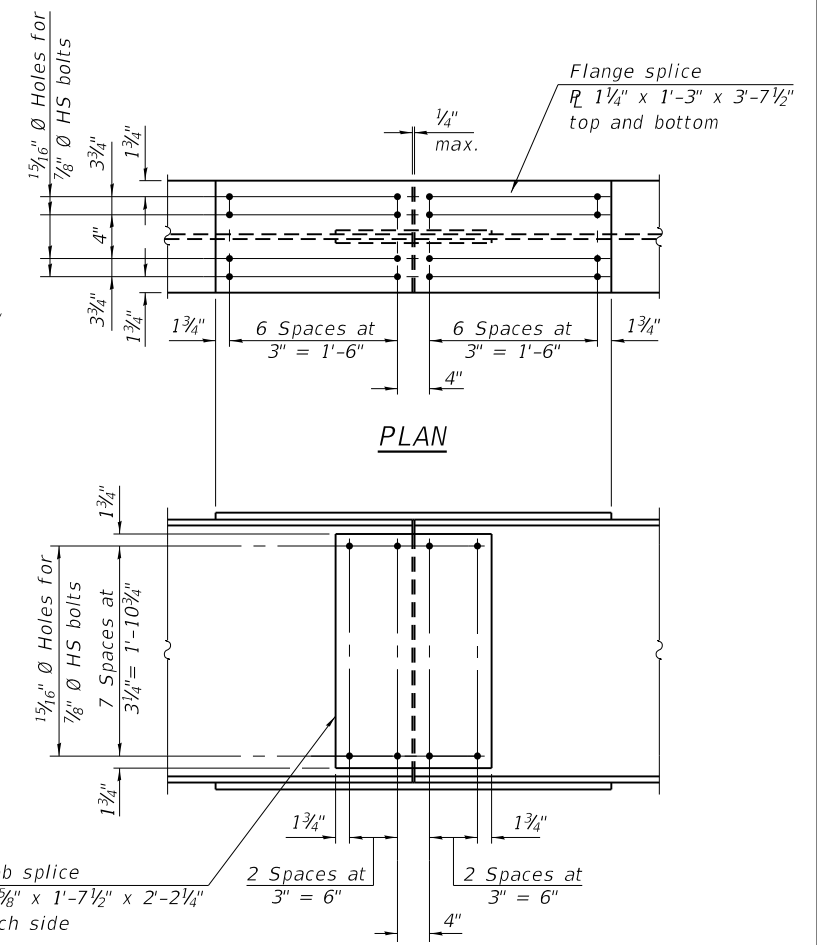
DRAINAGE SCUPPER DS-12
 STRUCTURE NO. 072-0073

SHEET 17 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	47
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				



FRAMING PLAN

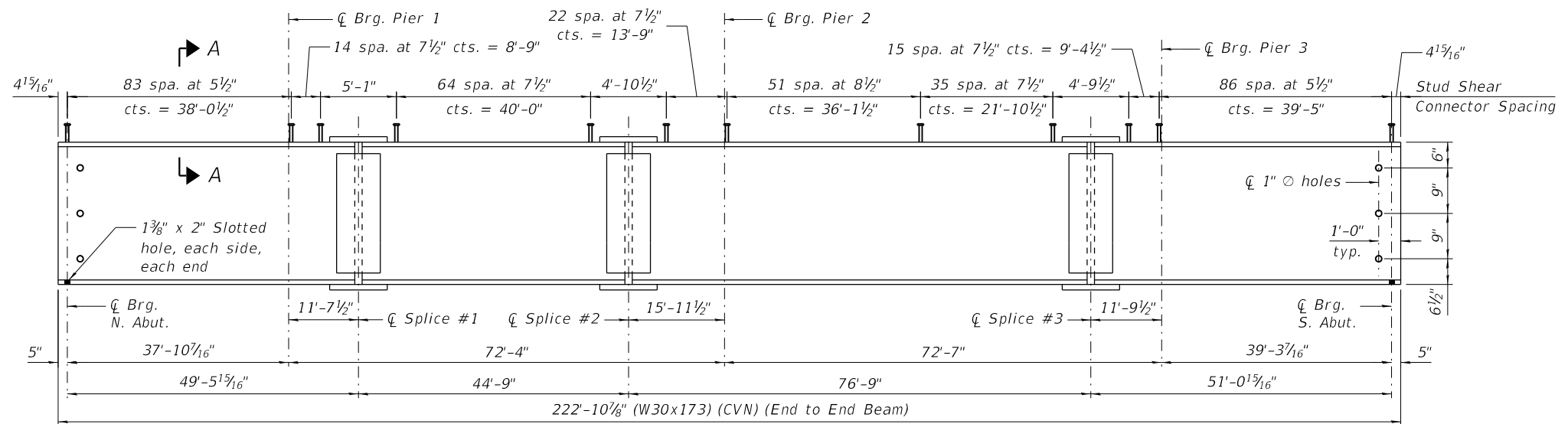


ELEVATION

SPlice DETAIL
(27 Required)

NOTES:

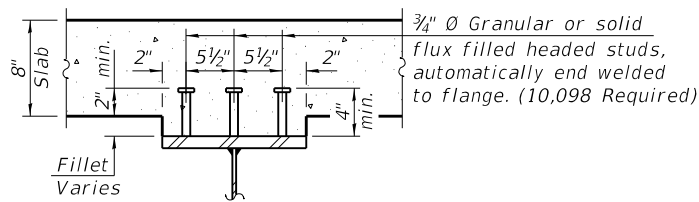
- All beams and splice plates shall be AASHTO M270 Grade 50 (CVN).
- "CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.
- All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.



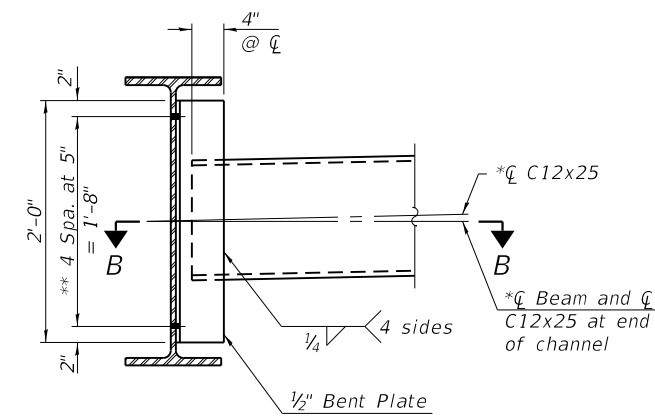
BEAM ELEVATION

TOP OF BEAM ELEVATIONS
(For Fabrication Only)

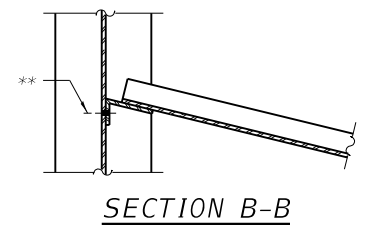
Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6	Beam 7	Beam 8	Beam 9
☉ Brg. N. Abut.	762.73	762.84	762.93	763.03	763.12	763.02	762.90	762.80	762.67
☉ Pier 1	762.78	762.89	762.99	763.09	763.19	763.08	762.97	762.87	762.74
☉ Splice 1	762.79	762.91	763.01	763.11	763.21	763.10	762.99	762.89	762.76
☉ Splice 2	762.84	762.97	763.07	763.17	763.27	763.17	763.07	762.97	762.84
☉ Pier 2	762.81	762.94	763.05	763.15	763.25	763.15	763.05	762.95	762.82
☉ Splice 3	762.71	762.84	762.95	763.06	763.16	763.07	762.97	762.88	762.75
☉ Pier 3	762.68	762.81	762.92	763.03	763.13	763.04	762.94	762.85	762.72
☉ Brg. S. Abut.	762.57	762.71	762.81	762.93	763.04	762.95	762.85	762.76	762.64



SECTION A-A



DIAPHRAGM D
(72 Required)



Note:
Two hardened washers required for each set of oversized holes.
*C12x30 is permitted to facilitate material acquisition. Calculated weight of structural steel is based on C12x25. The alternate, if utilized, shall be provided at no additional cost to the Department.
**3/4" diameter HS bolts, 1 1/16" diameter holes

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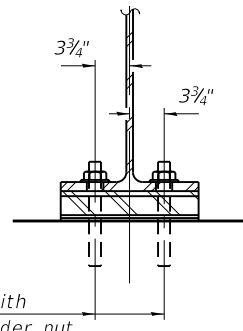
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN
STRUCTURE NO. 072-0073

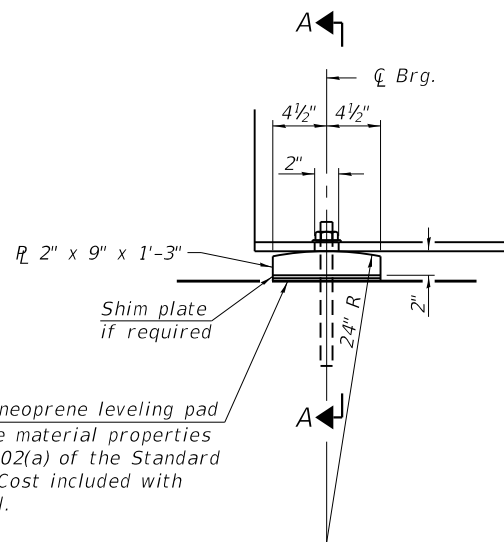
SHEET 18 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	48
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				



\varnothing 1" \varnothing x 12" anchor bolts with
 2 1/4" x 2 1/4" x 3/16" R washer under nut.
 1 3/8" x 2" slotted hole in flange.
 1 1/2" \varnothing holes in bearing plate.

SECTION A-A



1/8" elastomeric neoprene leveling pad
 according to the material properties
 of Article 1052.02(a) of the Standard
 Specifications. Cost included with
 Structural Steel.

ELEVATION AT ABUTMENT

FIXED BEARING

Notes:

Anchor bolts shall be according to Article 521.06 of the Standard Specifications.
 Beams shall be braced for stability during erection and remain braced until deck
 is poured and cured.
 Anchor bolts at all supports shall be installed as each member is erected unless
 an equivalent temporary means of lateral restraint is used.
 The structural steel plates of the bearing shall conform to the requirements of
 AASHTO M270 Grade 50.
 Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all
 other plates or shims and placed as shown on bearing details.

INTERIOR GIRDER MOMENT TABLE							
	0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.5 Sp. 3	Pier 3	0.6 Sp. 4
<i>I_s</i>	(in ⁴)	8230	8230	8230	8230	8230	8230
<i>I_c(n)</i>	(in ⁴)	21732	21732	21732	21732	21732	21732
<i>I_c(3n)</i>	(in ⁴)	15852	15852	15852	15852	15852	15852
<i>I_c(cr)</i>	(in ⁴)	-	10694	-	10694	-	10694
<i>S_s</i>	(in ³)	541	541	541	541	541	541
<i>S_c(n)</i>	(in ³)	780	780	780	780	780	780
<i>S_c(3n)</i>	(in ³)	706	706	706	706	706	706
<i>S_c(cr)</i>	(in ³)	-	610	-	610	-	610
<i>DC1</i>	(k/ft)	0.891	0.891	0.891	0.891	0.891	0.891
<i>MDC1</i>	(k)	36	294	217	436	218	299
<i>DC2</i>	(k/ft)	0.242	0.242	0.242	0.242	0.242	0.242
<i>MDC2</i>	(k)	10	80	59	118	59	81
<i>DW</i>	(k/ft)	0.105	0.105	0.105	0.105	0.105	0.105
<i>MDW</i>	(k)	4	35	26	51	26	35
<i>LLDF</i>		0.663	0.621	0.592	0.592	0.592	0.619
<i>M_ℓ + iM</i>	(k)	397	579	617	664	622	574
<i>M_u (Strength I)</i>	(k)	758	1533	1464	1931	1474	1532
<i>∅f Mn</i>	(k)	3734	2350	3734	2355	3734	2395
<i>f_s DC1</i>	(ksi)	0.80	6.52	4.81	9.67	4.84	6.63
<i>f_s DC2</i>	(ksi)	0.17	1.57	1.00	2.32	1.00	1.59
<i>f_s DW</i>	(ksi)	0.07	0.69	0.44	1.00	0.44	0.69
<i>f_s (ℓ+IM)</i>	(ksi)	6.11	11.39	9.49	13.06	9.57	11.29
<i>f_s (Service II)</i>	(ksi)	8.98	23.59	18.60	29.97	18.72	23.59
<i>0.95RhFyf</i>	(ksi)	47.50	47.50	47.50	47.50	47.50	47.50
<i>f_s (Total)(Strength I)</i>	(ksi)	-	-	-	-	-	-
<i>∅f Fn</i>	(ksi)	-	-	-	-	-	-
<i>Vf</i>	(k)	21.4	23.7	20.6	24.0	19.8	26.4

GIRDER REACTION TABLE										
	N. Abut.		Pier 1		Pier 2		Pier 3		S. Abut.	
	Interior	Exterior	Interior	Exterior	Interior	Exterior	Interior	Exterior	Interior	Exterior
<i>LLDF</i>	0.725	0.465	0.725	0.465	0.725	0.465	0.725	0.465	0.725	0.465
<i>OCF</i>	-	1.049	-	-	-	-	-	-	-	1.049
<i>RDC1 (k)</i>	* 19.0	* 16.1	54.9	46.8	68.4	57.9	55.6	47.4	* 19.8	* 16.0
<i>RDC2 (k)</i>	2.5	2.5	14.9	14.9	18.6	18.6	15.1	15.1	2.7	2.7
<i>RDW (k)</i>	1.1	1.1	6.5	6.5	8.1	8.1	6.7	6.7	1.2	1.2
<i>Rℓ (k)</i>	46.6	31.4	83.7	53.7	87.3	56.0	83.7	53.7	47.3	31.8
<i>R_{IM} (k)</i>	12.4	8.4	17.1	11.0	16.6	10.6	17.0	10.9	12.5	8.4
<i>RTotal (k)</i>	81.6	59.5	177.1	132.9	199.0	151.2	178.1	133.8	83.5	60.1

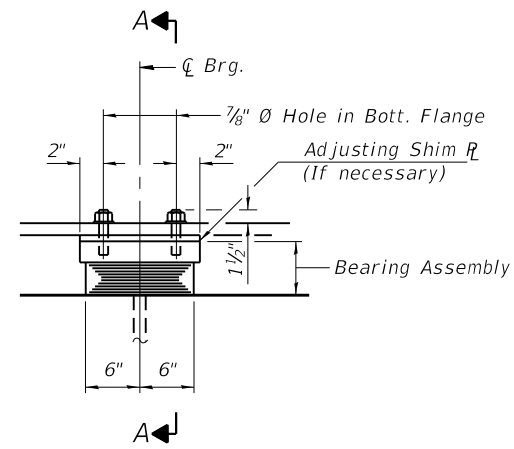
* Includes weight of concrete end diaphragm.

I_s, S_s: Non-composite moment of inertia and section modulus of the steel section used for computing *f_s*(Total-Strength I, and Service II) due to non-composite dead loads (in⁴ and in³).
I_c(n), S_c(n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing *f_s*(Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in⁴ and in³).
I_c(3n), S_c(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing *f_s*(Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in⁴ and in³).
I_c(cr), S_c(cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing *f_s* (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in⁴ and in³).
DC1: Un-factored non-composite dead load (kips/ft.).
MDC1: Un-factored moment due to non-composite dead load (kip-ft.).
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
M_ℓ + iM: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
M_u (Strength I): Factored design moment (kip-ft.).
 1.25 (MDC1 + MDC2) + 1.5 MDW + 1.75 M_ℓ + iM
∅f Mn: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).
f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
 MDC1/ S_c
f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
 MDC2/ S_c(3n) or MDC2/ S_c(cr) as applicable.
f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
 MDW/ S_c(3n) or MDW/ S_c(cr) as applicable.
f_s (ℓ+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
 M_ℓ + iM / S_c(n) or M_ℓ + iM / S_c(cr) as applicable.
f_s (Service II): Sum of stresses as computed below (ksi).
f_sDC1 + f_sDC2 + f_sDW + 1.3 f_s(ℓ + iM)
0.95RhFyf: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
 1.25 (f_sDC1 + f_sDC2) + 1.5 f_sDW + 1.75 f_s(ℓ + iM)
∅f Fn: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).
Vf: Maximum factored shear range in span computed according to Article 6.10.10.
LLDF: Live Load Distribution Factor
OCF: Obtuse Correction Factor

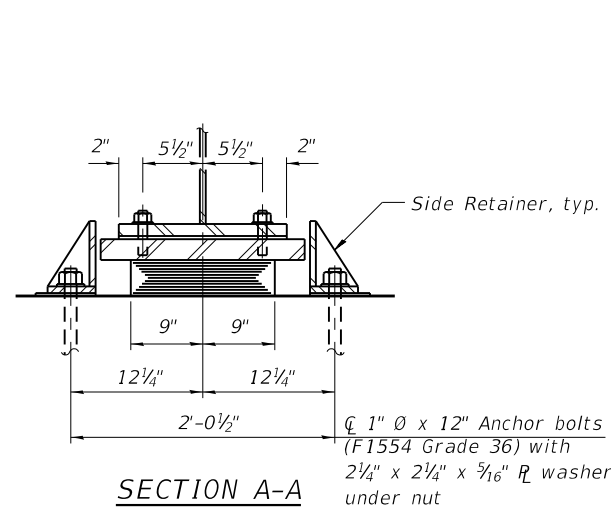
BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	36

MODEL: Default
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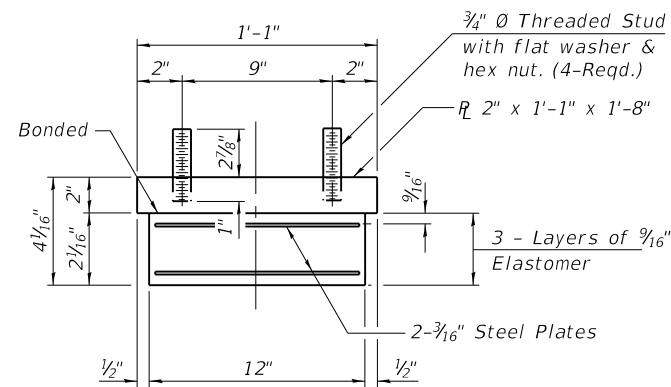


ELEVATION AT PIERS 1 & 3



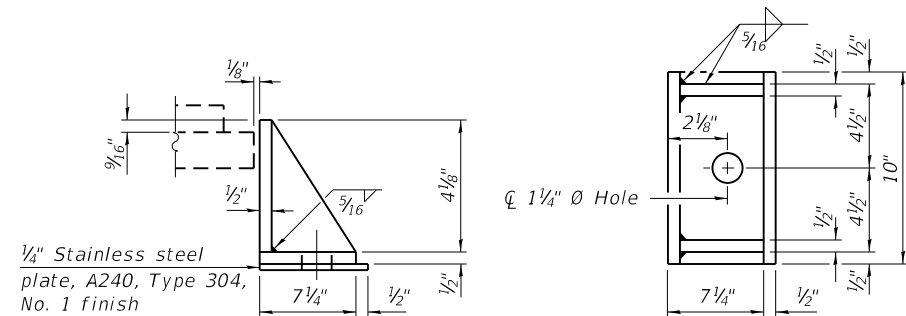
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.



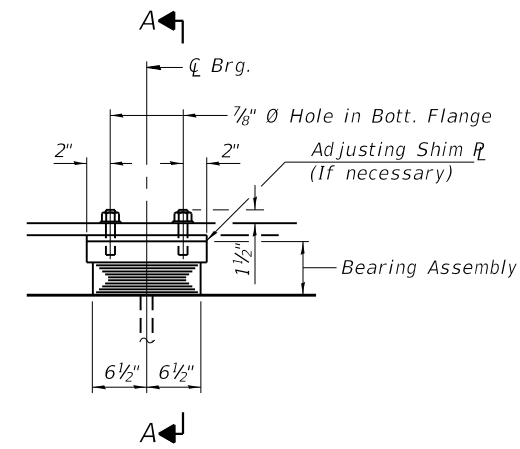
BEARING ASSEMBLY

Note:
Shim plates shall not be placed under Bearing Assembly.

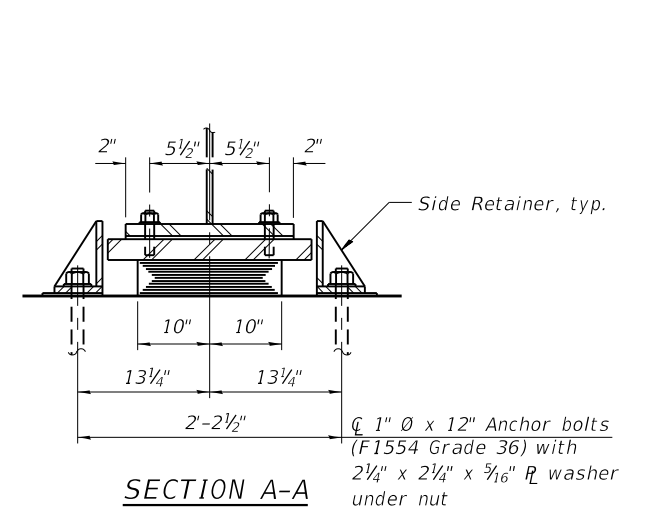


SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

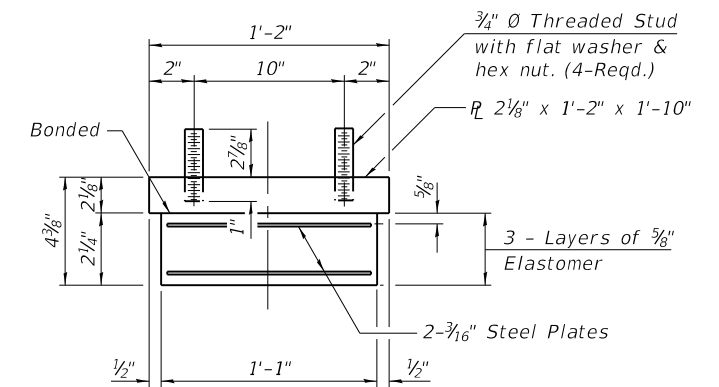


ELEVATION AT PIER 2



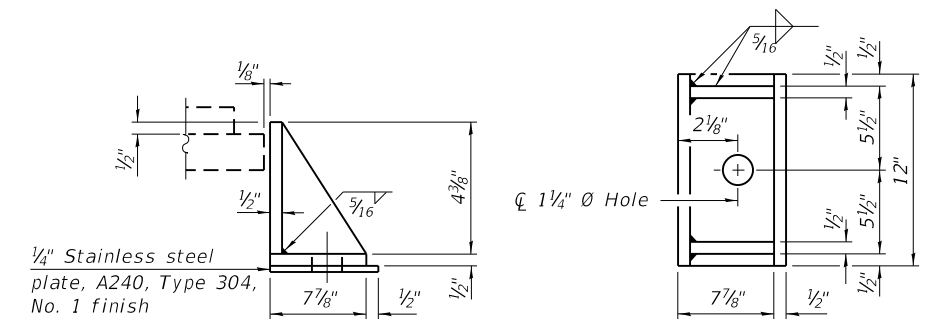
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

Note:
Shim plates shall not be placed under Bearing Assembly.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	27
Anchor Bolts, 1"	Each	54

Notes:
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.
Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.
Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
Cost of removing existing bearings shall be included in the cost of Removal of Existing Superstructures.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
STRUCTURE NO. 072-0073

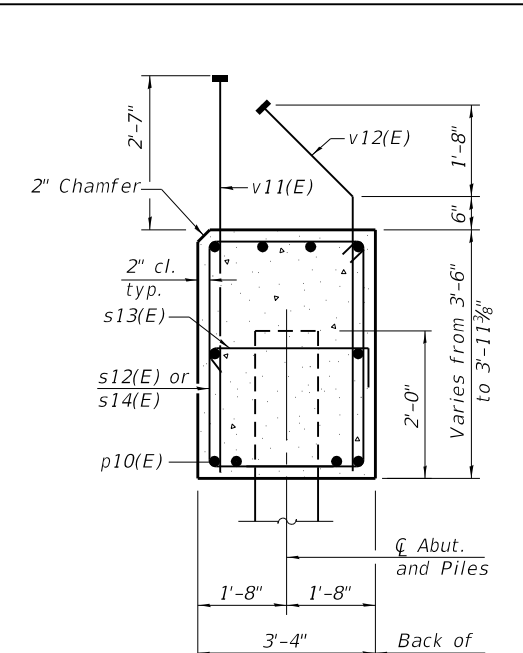
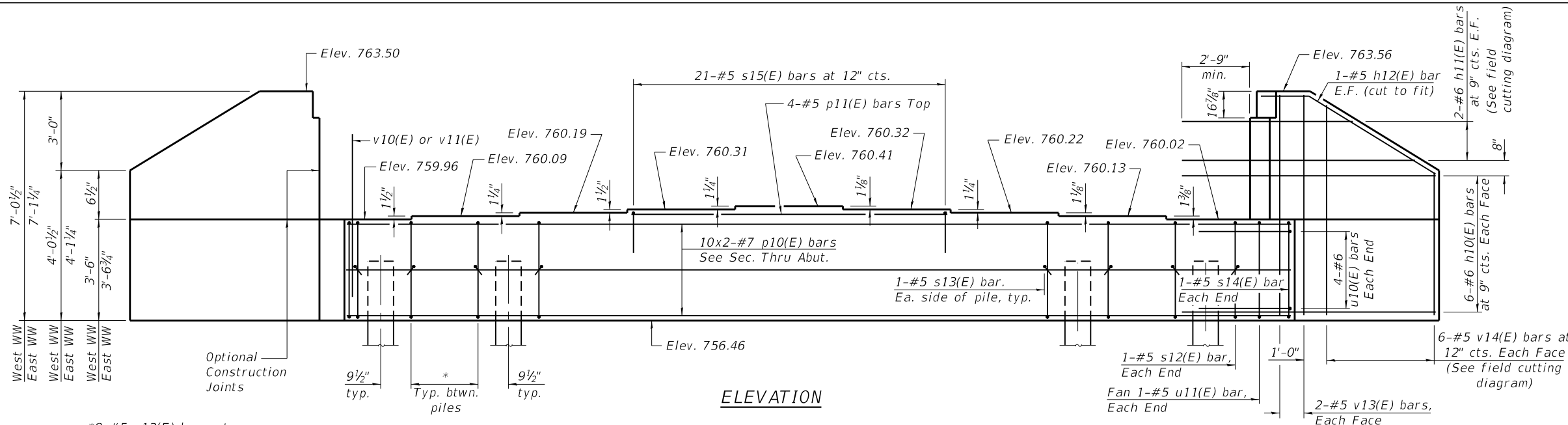
SHEET 20 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	50
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				

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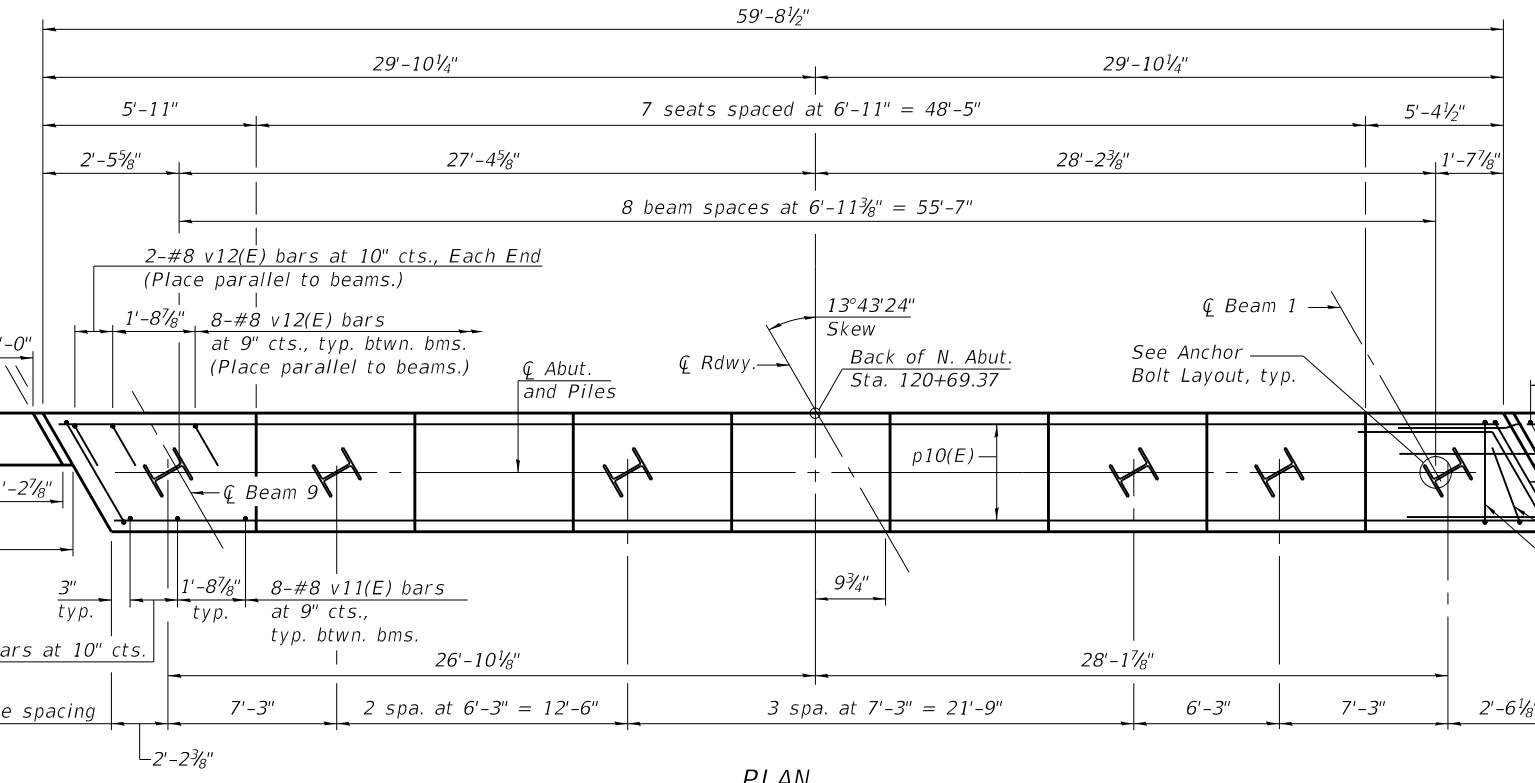
LE LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

USER NAME =	DESIGNED - MTH	REVISED -
PLOT SCALE =	CHECKED - VPT	REVISED -
PLOT DATE = 5/29/2019	DRAWN - CGY	REVISED -
	CHECKED - MTH	REVISED -



MINIMUM BAR LAP
 #7 bar = 5'-0"

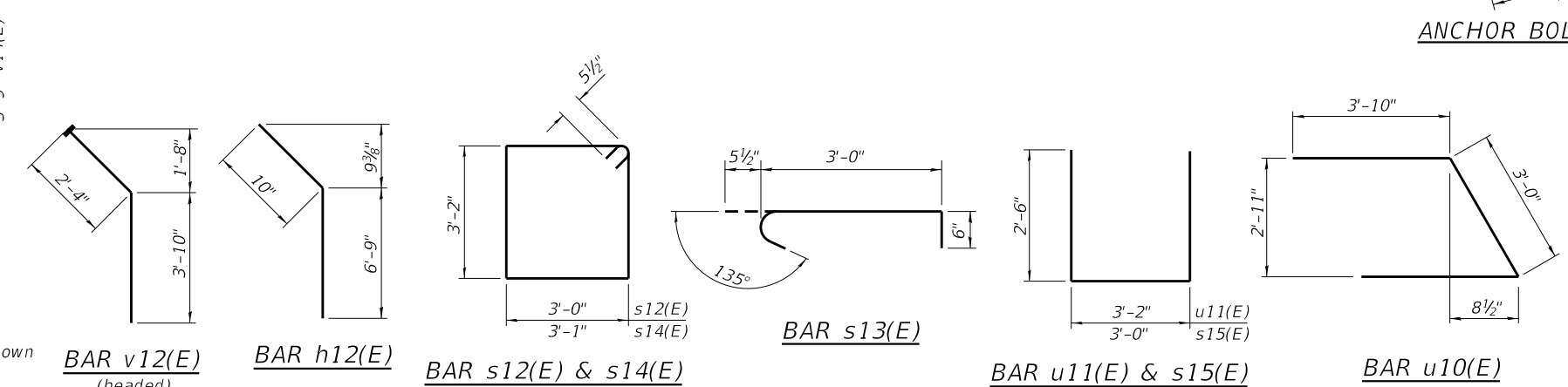
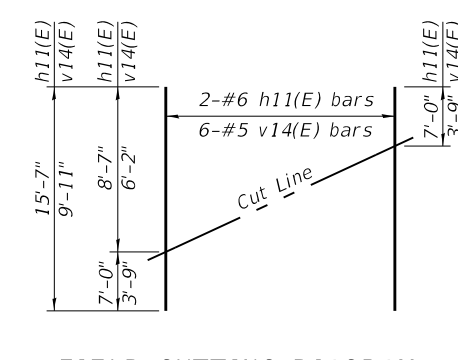
*8-#5 s12(E) bars at 9 3/4\"/>



PILE DATA
 Type: HP12x63
 Nominal Required Bearing: 365 kips
 Factored Resistance Available: 201 kips
 Est. Length: 50 ft
 No. Production Piles: 8
 No. Test Piles: 1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h10(E)	24	#6	10'-1"	—
h11(E)	4	#6	15'-7"	—
h12(E)	4	#5	7'-7"	—
p10(E)	20	#7	32'-3"	—
p11(E)	4	#5	20'-5"	—
s12(E)	63	#5	13'-3"	□
s13(E)	18	#5	4'-0"	□
s14(E)	2	#5	13'-5"	□
s15(E)	21	#5	8'-0"	□
u10(E)	8	#6	10'-8"	—
u11(E)	2	#5	8'-2"	—
v11(E)	68	#8	5'-11"	—
v12(E)	68	#8	6'-2"	—
v13(E)	8	#5	6'-8"	—
v14(E)	12	#5	9'-11"	—
Structure Excavation		Cu. Yd.	27	
Concrete Structures		Cu. Yd.	30.7	
Reinforcement Bars, Epoxy Coated		Pound	5570	
Furnishing Steel Piles, HP12x63		Foot	400	
Driving Piles		Foot	400	
Test Pile Steel HP12x63		Each	1	



Notes:
 Pour steps monolithically with cap.
 Space reinforcement in cap to miss anchor bolts.
 Piles are spaced to miss existing battered piles.
 Piles shall be driven through 24 inch diameter precored holes extending to elevation 746.46 and filled with bentonite according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles.
 Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
 For details of piles see sheet 29 of 33.
 For drainage details see sheet 2 of 33.
 Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.
 Piles to be driven with webs oriented perpendicular to ϕ roadway.

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 Consulting Engineers
 Springfield, Illinois

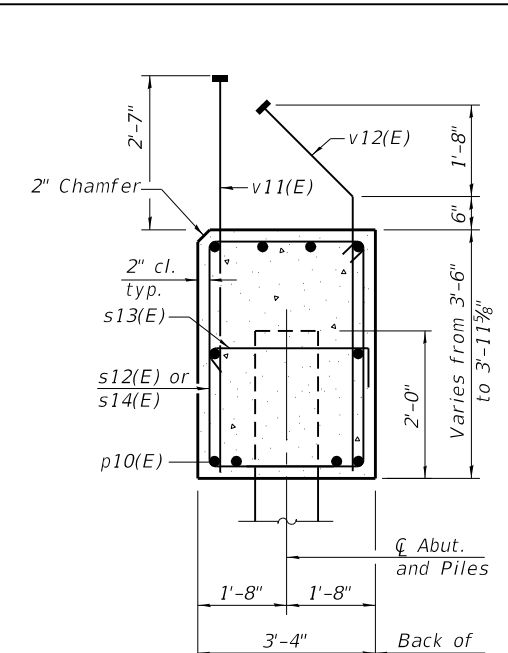
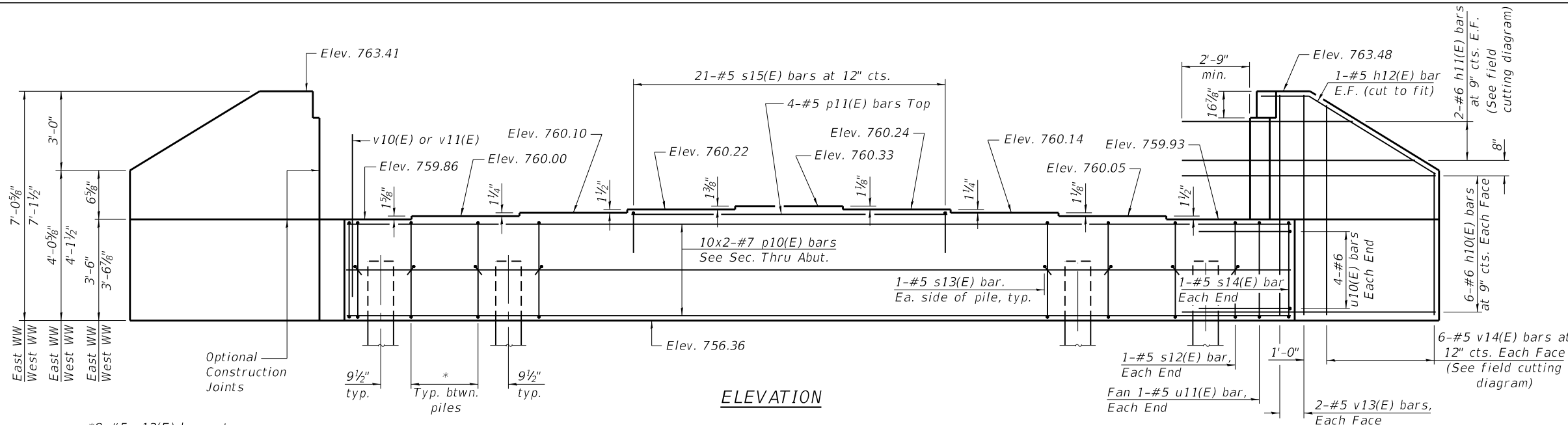
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	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT DETAILS
STRUCTURE NO. 072-0073

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	51
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				

SHEET 21 OF 33 SHEETS



ELEVATION

SEC. THRU ABUT.

Dimensions at right angles to abutment.

*8-#5 s12(E) bars at 9 3/4" cts. (7'-3" pile spa.)
 7-#5 s12(E) bars at 9 3/8" cts. (6'-3" pile spa.)

MINIMUM BAR LAP

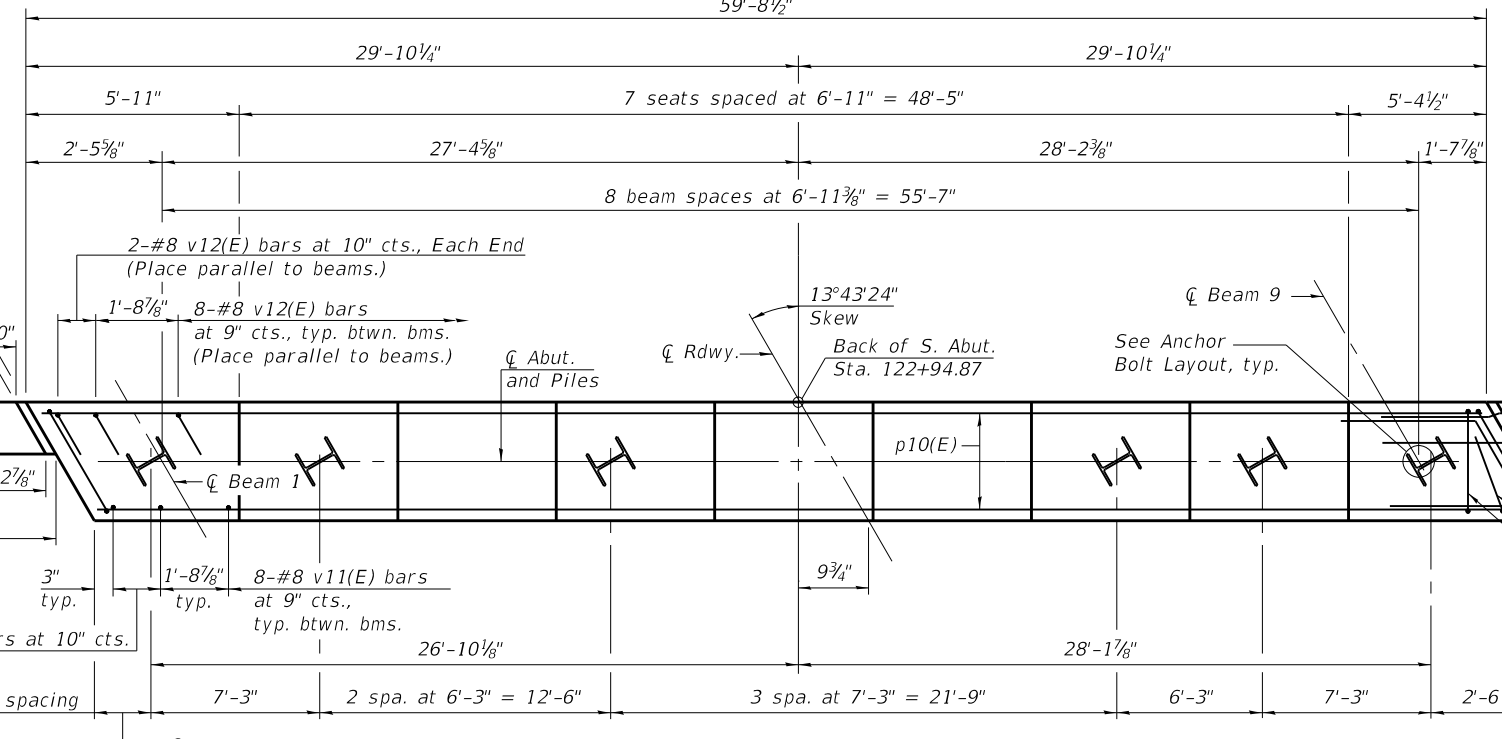
#7 bar = 5'-0"

PILE DATA

Type: HP12x63
 Nominal Required Bearing: 365 kips
 Factored Resistance Available: 201 kips
 Est. Length: 50 ft
 No. Production Piles: 9

BILL OF MATERIAL

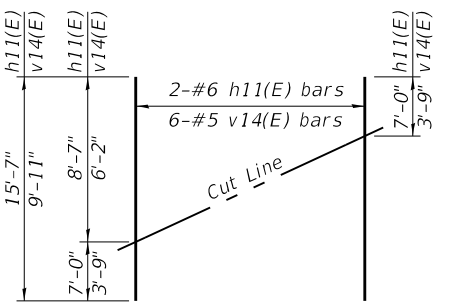
Bar	No.	Size	Length	Shape
h10(E)	24	#6	10'-1"	▬
h11(E)	4	#6	15'-7"	▬
h12(E)	4	#5	7'-7"	▬
p10(E)	20	#7	32'-3"	▬
p11(E)	4	#5	20'-5"	▬
s12(E)	63	#5	13'-3"	▬
s13(E)	18	#5	4'-0"	▬
s14(E)	2	#5	13'-5"	▬
s15(E)	21	#5	8'-0"	▬
u10(E)	8	#6	10'-8"	▬
u11(E)	2	#5	8'-2"	▬
v11(E)	68	#8	5'-11"	▬
v12(E)	68	#8	6'-2"	▬
v13(E)	8	#5	6'-8"	▬
v14(E)	12	#5	9'-11"	▬
Structure Excavation		Cu. Yd.	29	
Concrete Structures		Cu. Yd.	30.8	
Reinforcement Bars, Epoxy Coated		Pound	5570	
Furnishing Steel Piles, HP12x63		Foot	450	
Driving Piles		Foot	450	



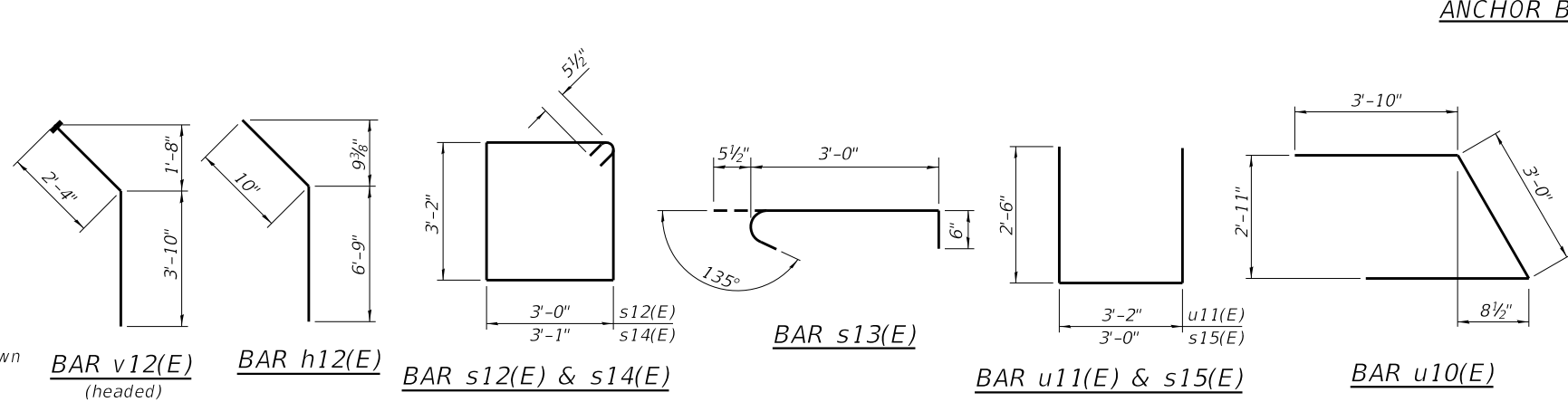
PLAN

ANCHOR BOLT LAYOUT

Notes:
 Pour steps monolithically with cap.
 Space reinforcement in cap to miss anchor bolts.
 Piles are spaced to miss existing battered piles.
 Piles shall be driven through 24 inch diameter precored holes extending to elevation 746.36 and filled with bentonite according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles.
 Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
 For details of piles see sheet 29 of 33.
 Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.
 Piles to be driven with webs oriented perpendicular to centerline roadway.



FIELD CUTTING DIAGRAM

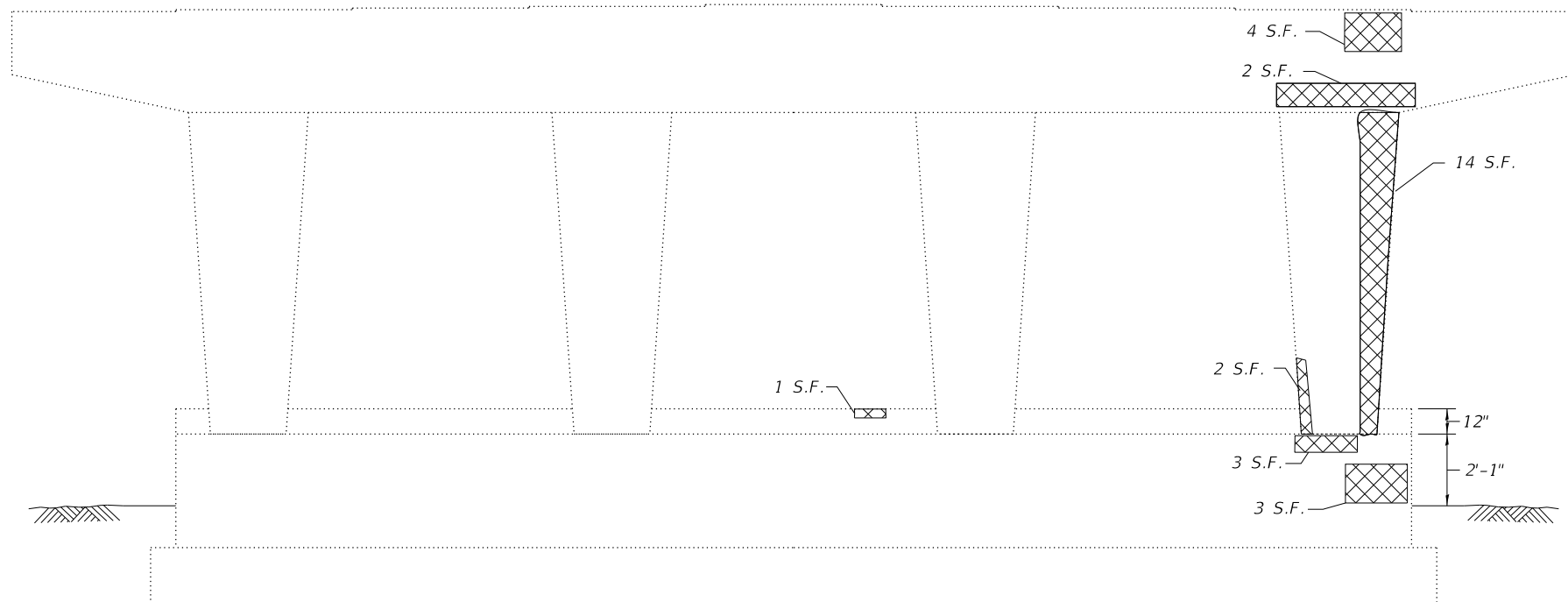


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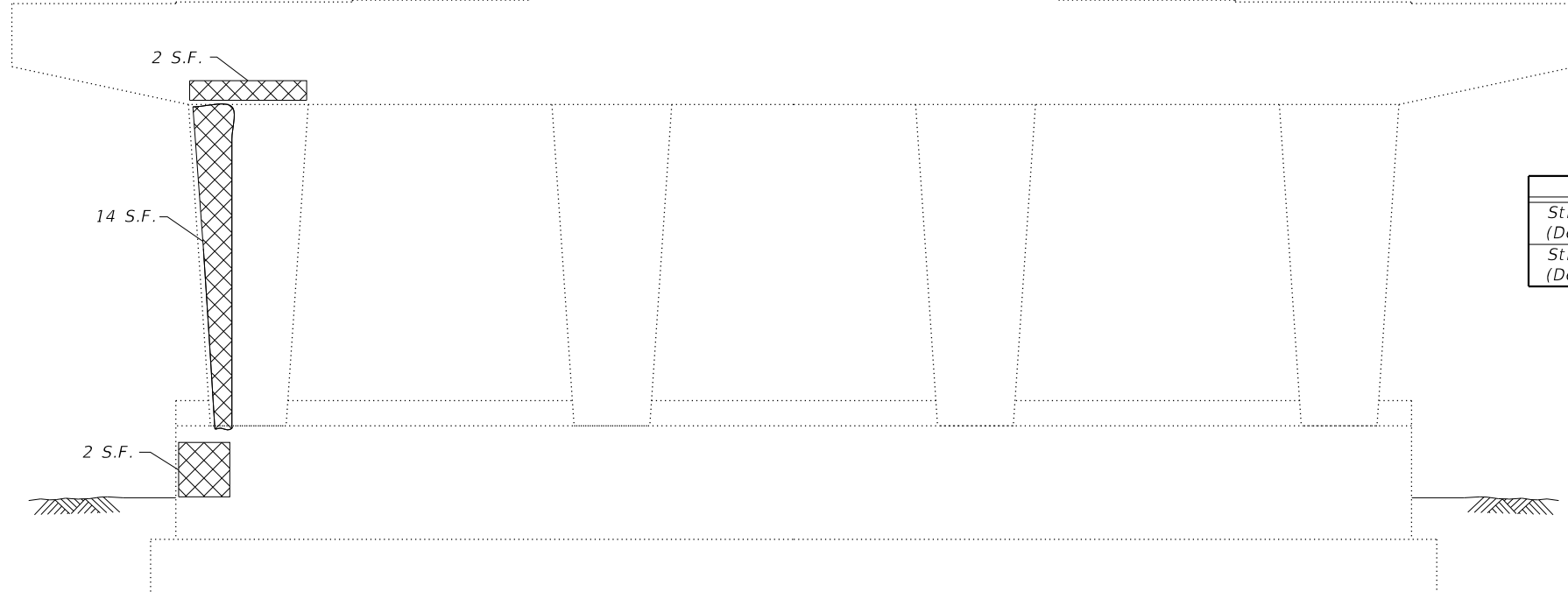
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74	(72-3HB)BRR;130RS-6	PEORIA	83	52
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				



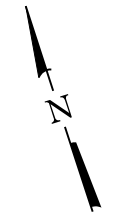
TOP PLAN



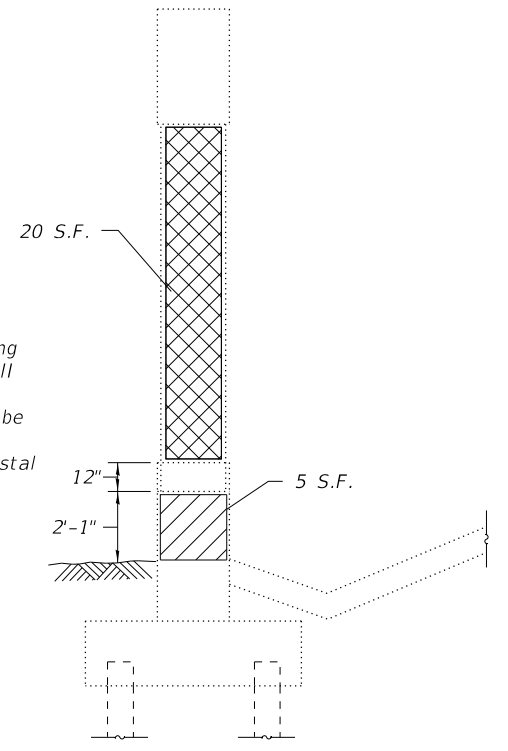
ELEVATION
(Looking North)



ELEVATION
(Looking South)



Notes:
 The quantities shown are for estimating purposes only. The area to be repaired will be determined by the Engineer at time of construction. Actual repair locations shall be shown on the as-built plans.
 See Sheet 26 of 33 for concrete pedestal details.



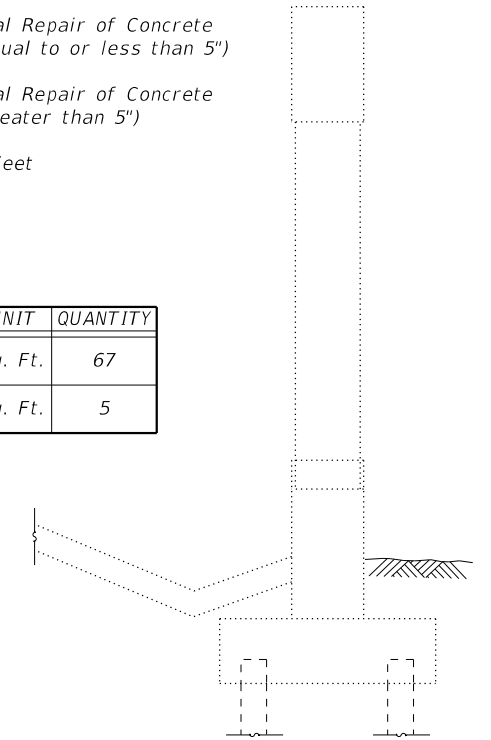
END VIEW
(Looking West)

LEGEND

- = Structural Repair of Concrete (Depth equal to or less than 5")
- = Structural Repair of Concrete (Depth greater than 5")
- S.F. = Square Feet

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	67
Structural Repair of Concrete (Depth greater than 5")	Sq. Ft.	5



END VIEW
(Looking East)

(Sheet 1 of 3)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER REPAIRS - PIER 1
STRUCTURE NO. 072-0073

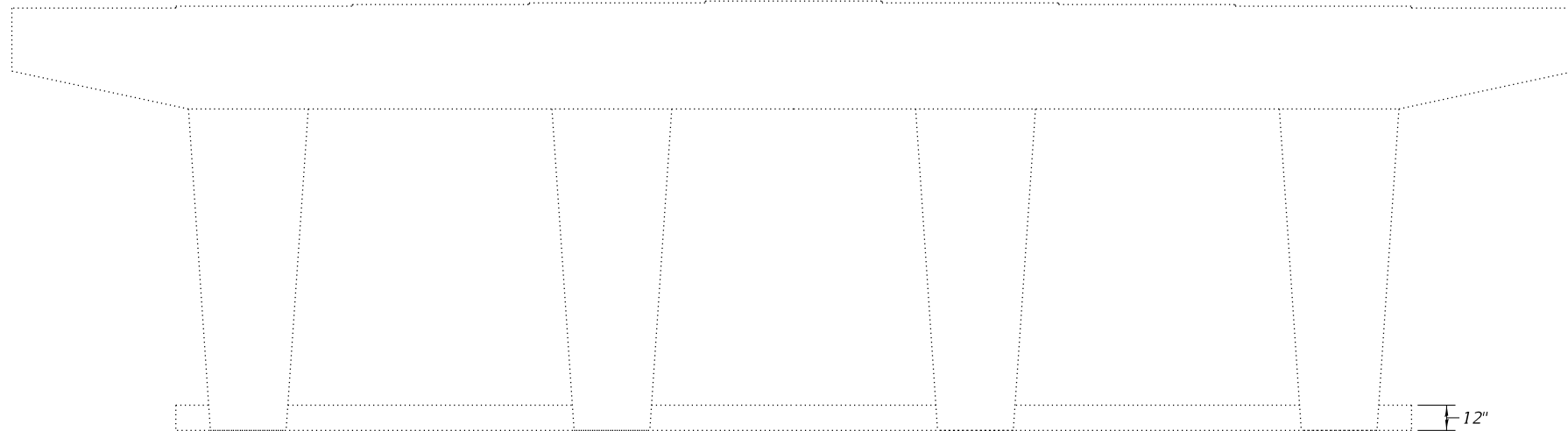
SHEET 23 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	53
CONTRACT NO. 68C57				

ILLINOIS FED. AID PROJECT

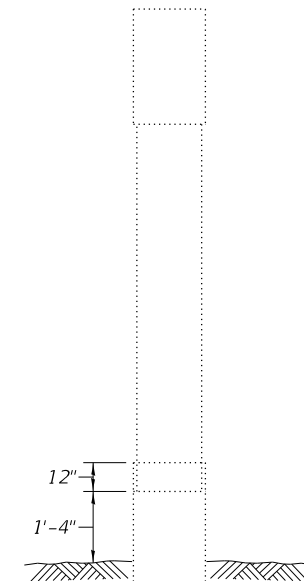


TOP PLAN



ELEVATION
(Looking North)

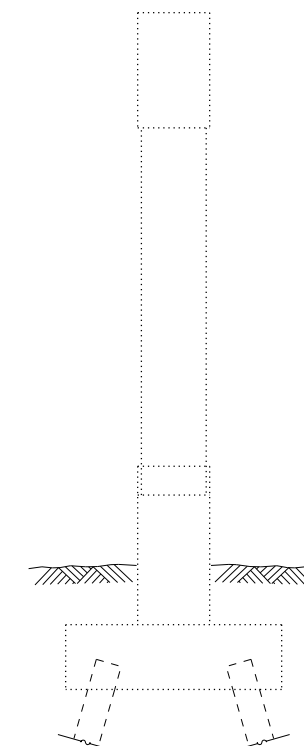
Notes:
 The quantities shown are for estimating purposes only. The area to be repaired will be determined by the Engineer at time of construction. Actual repair locations shall be shown on the as-built plans.
 See Sheet 27 of 33 for concrete pedestal details.



END VIEW
(Looking West)



ELEVATION
(Looking South)



END VIEW
(Looking East)

(Sheet 2 of 3)

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

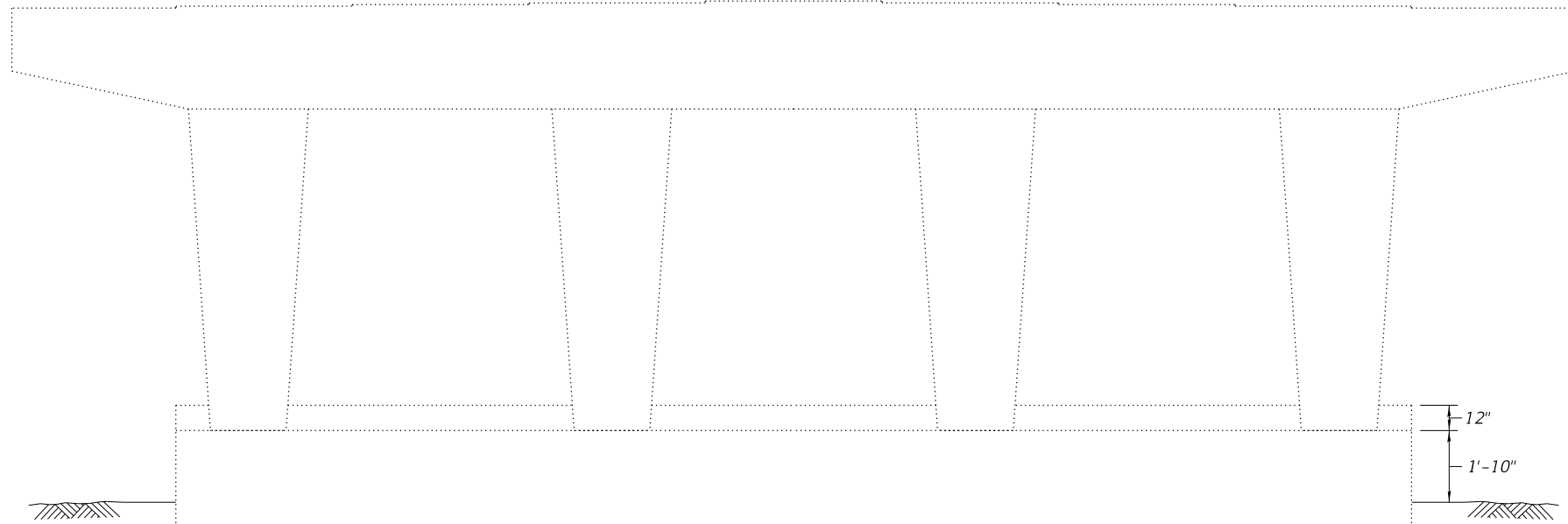
PIER REPAIRS - PIER 2
 STRUCTURE NO. 072-0073

SHEET 24 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	54
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				



TOP PLAN

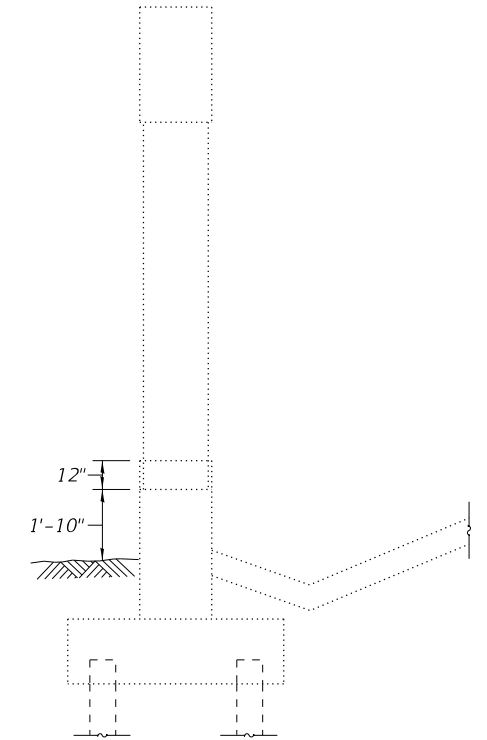


ELEVATION
(Looking North)

Notes:

The quantities shown are for estimating purposes only. The area to be repaired will be determined by the Engineer at time of construction. Actual repair locations shall be shown on the as-built plans.

See Sheet 28 of 33 for concrete pedestal details.



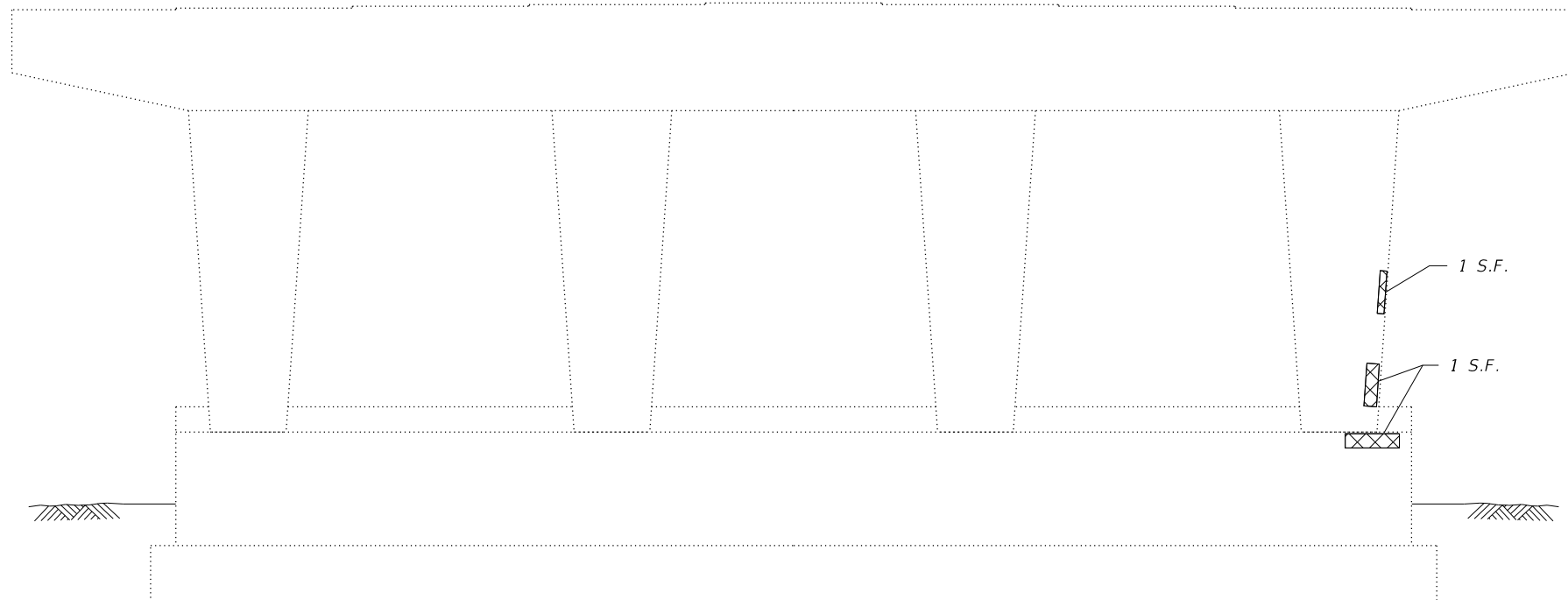
END VIEW
(Looking East)

LEGEND

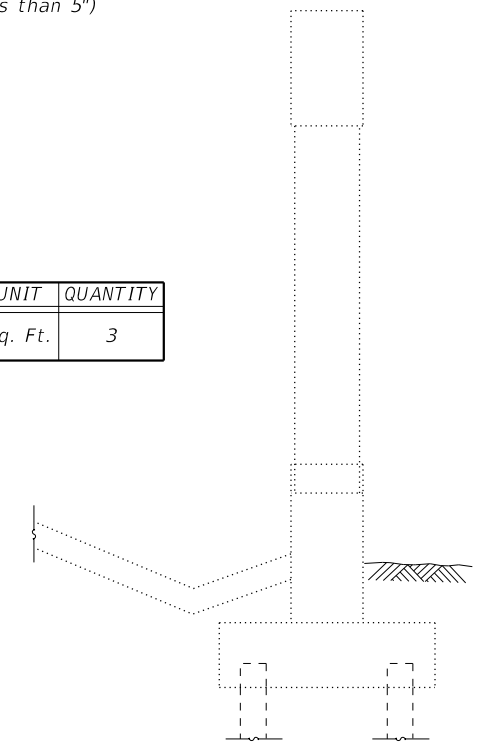
- ⊗ ⊗ = Structural Repair of Concrete (Depth equal to or less than 5")
- S.F. = Square Feet

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	3



ELEVATION
(Looking South)



END VIEW
(Looking West)

(Sheet 3 of 3)

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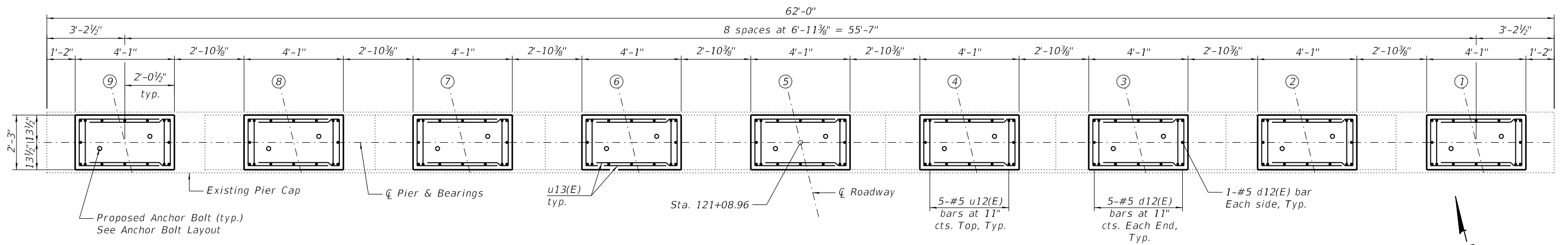
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

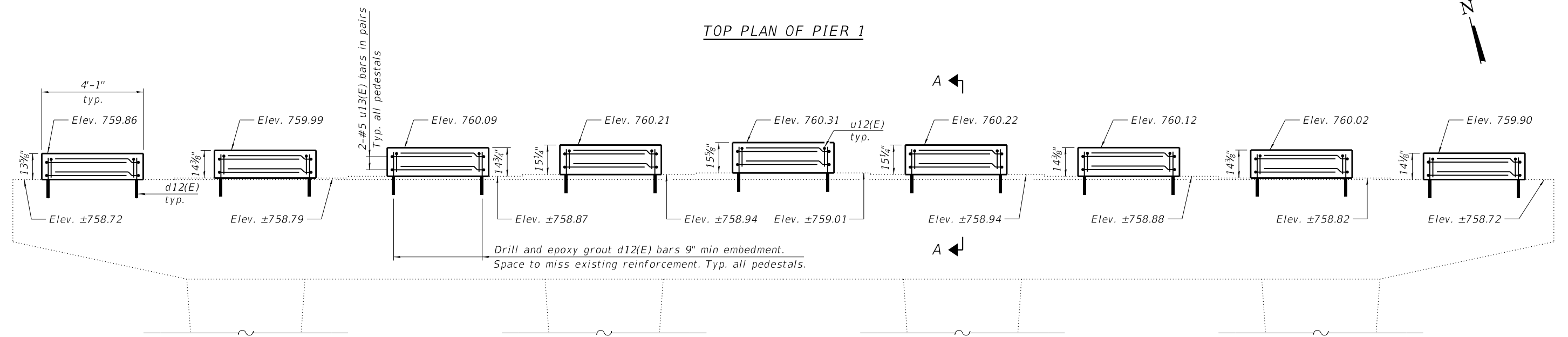
**PIER REPAIRS - PIER 3
STRUCTURE NO. 072-0073**

SHEET 25 OF 33 SHEETS

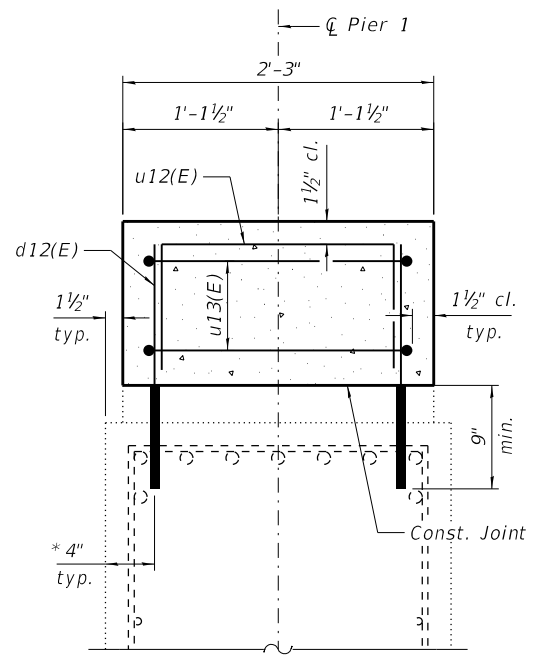
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	55
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				



TOP PLAN OF PIER 1

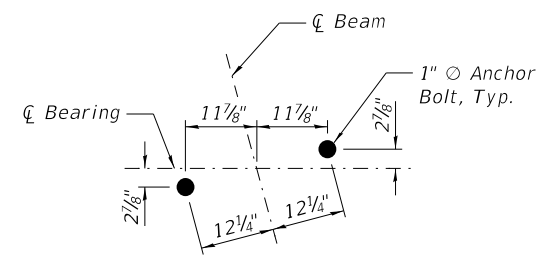


ELEVATION
(Looking North)



SECTION A-A

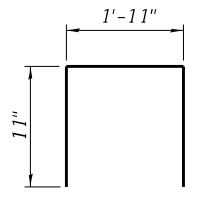
* Adjust as necessary to miss existing reinforcement in cap.



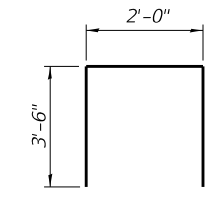
ANCHOR BOLT LAYOUT
(Typ. each pedestal)

MINIMUM BAR LAP

#5 bars = 3'-2"



BAR u12(E)



BAR u13(E)

PIER 1
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d12(E)	108	#5	1'-11"	—
u12(E)	45	#5	3'-9"	□
u13(E)	36	#5	9'-0"	□
Concrete Structures			Cu. Yd.	3.8
Reinforcement Bars, Epoxy Coated			Pound	730

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

(Sheet 1 of 3)

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LE LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

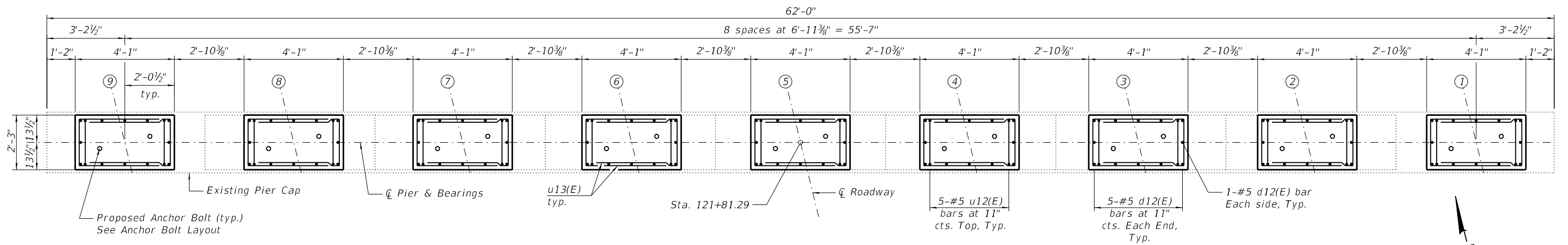
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

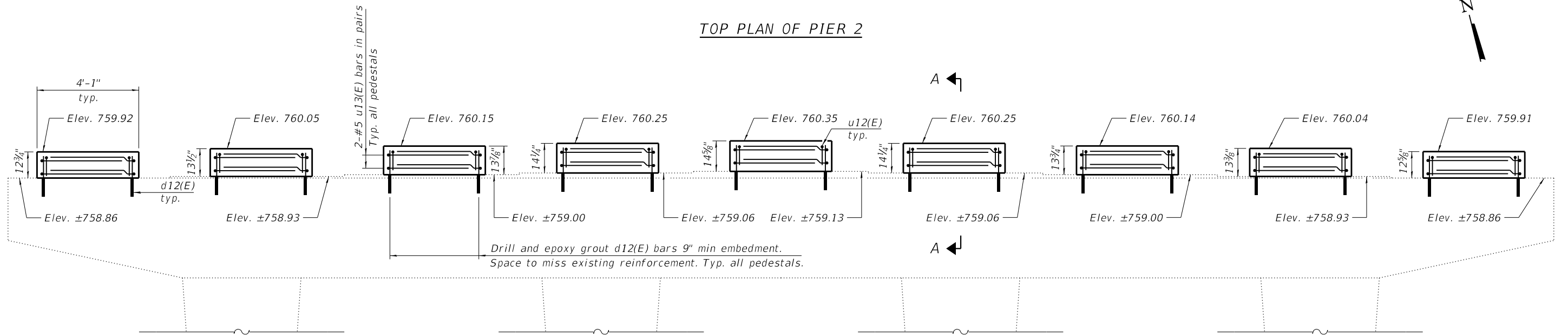
PIER PEDESTAL DETAILS - PIER 1
STRUCTURE NO. 072-0073

SHEET 26 OF 33 SHEETS

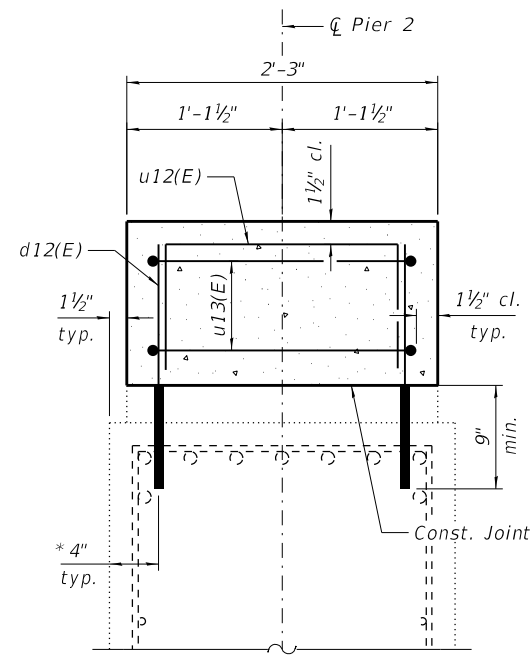
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	56
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				



TOP PLAN OF PIER 2

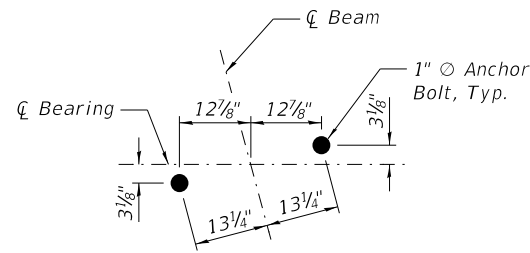


ELEVATION
(Looking North)



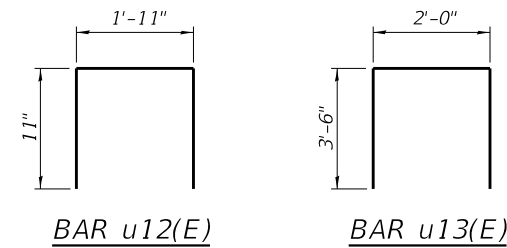
SECTION A-A

* Adjust as necessary to miss existing reinforcement in cap.



ANCHOR BOLT LAYOUT
(Typ. each pedestal)

MINIMUM BAR LAP
#5 bars = 3'-2"



PIER 2
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d12(E)	108	#5	1'-11"	—
u12(E)	45	#5	3'-9"	□
u13(E)	36	#5	9'-0"	□
Concrete Structures			Cu. Yd.	3.5
Reinforcement Bars, Epoxy Coated			Pound	730

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

(Sheet 2 of 3)

MODEL: Default
FILE NAME: E:\0936-12\StructG - SN 072-0073\4 - Final Design\Design Plans\CADD_Sheets\072-0073-D468C57-027-PierDetails2.dgn

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Springfield, Illinois

USER NAME =	DESIGNED - MTH	REVISED -
PLOT SCALE =	CHECKED - VPT	REVISED -
PLOT DATE = 5/29/2019	DRAWN - CGY	REVISED -
	CHECKED - MTH	REVISED -

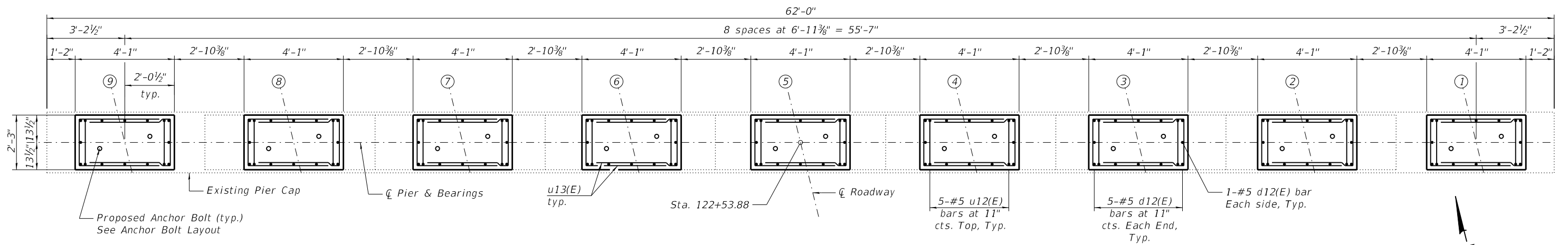
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER PEDESTAL DETAILS - PIER 2
STRUCTURE NO. 072-0073

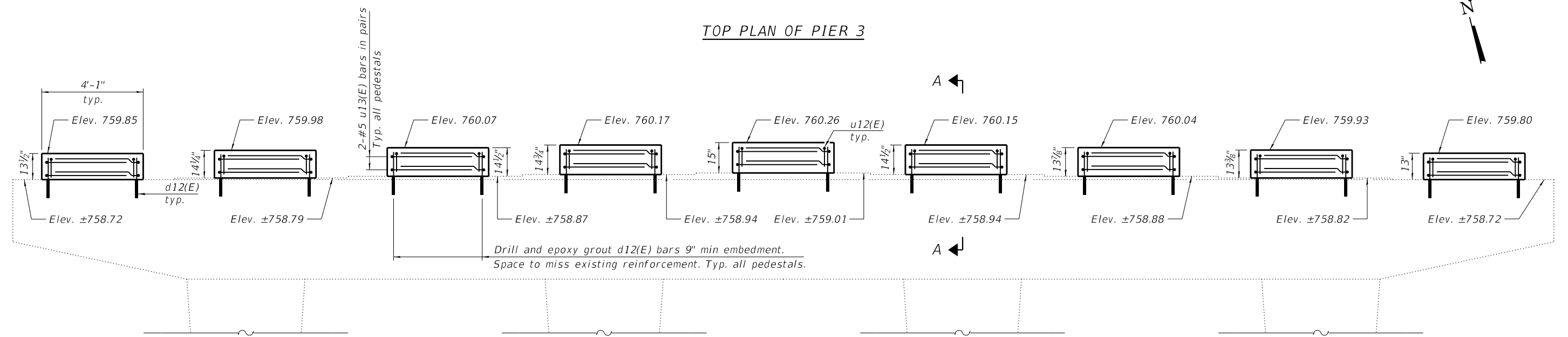
SHEET 27 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	57
CONTRACT NO. 68C57				

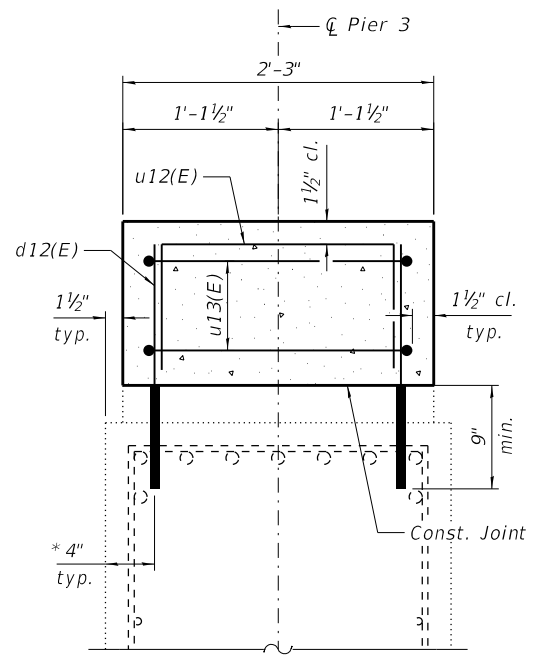
ILLINOIS FED. AID PROJECT



TOP PLAN OF PIER 3

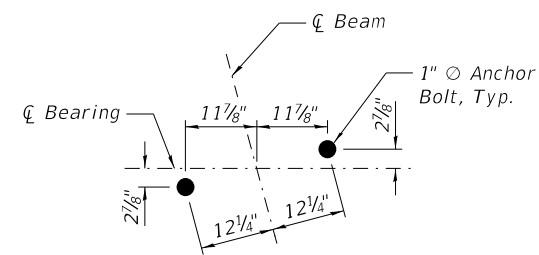


ELEVATION
(Looking North)



SECTION A-A

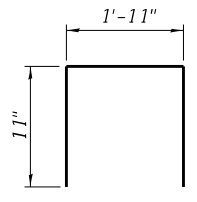
* Adjust as necessary to miss existing reinforcement in cap.



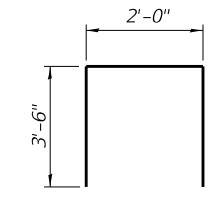
ANCHOR BOLT LAYOUT
(Typ. each pedestal)

MINIMUM BAR LAP

#5 bars = 3'-2"



BAR u12(E)



BAR u13(E)

PIER 3
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d12(E)	108	#5	1'-11"	—
u12(E)	45	#5	3'-9"	□
u13(E)	36	#5	9'-0"	□
Concrete Structures			Cu. Yd.	3.6
Reinforcement Bars, Epoxy Coated			Pound	730

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

(Sheet 3 of 3)

MODEL: Default
FILE NAME: E:\0936-12\StructG - SN 072-0073\4. Final Design\Design Plans\CADD_Sheets\072-0073-D468C57-028-PierDetails3.dgn

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Springfield, Illinois

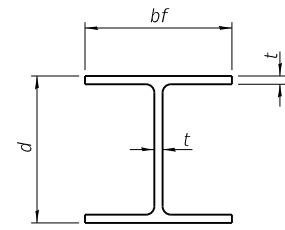
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PLOT SCALE =	CHECKED - VPT	REVISED -
PLOT DATE = 5/29/2019	DRAWN - CGY	REVISED -
	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER PEDESTAL DETAILS - PIER 3
STRUCTURE NO. 072-0073

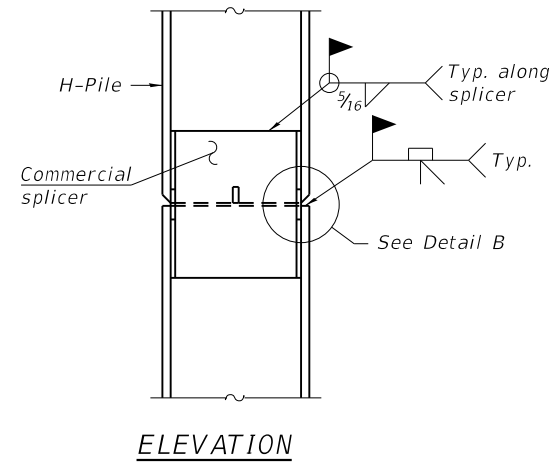
SHEET 28 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	58
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				

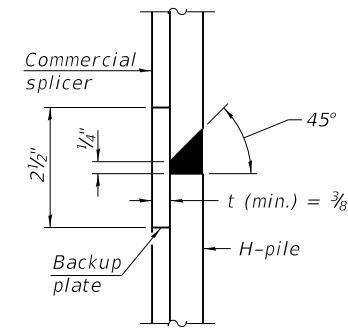


STEEL PILE TABLE

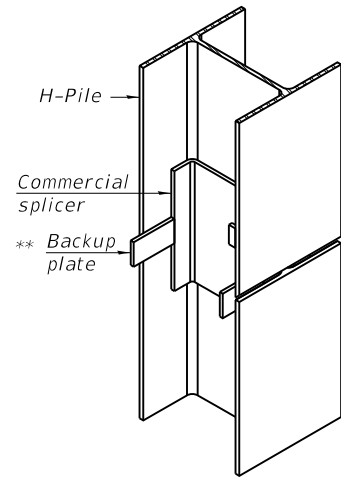
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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



ELEVATION

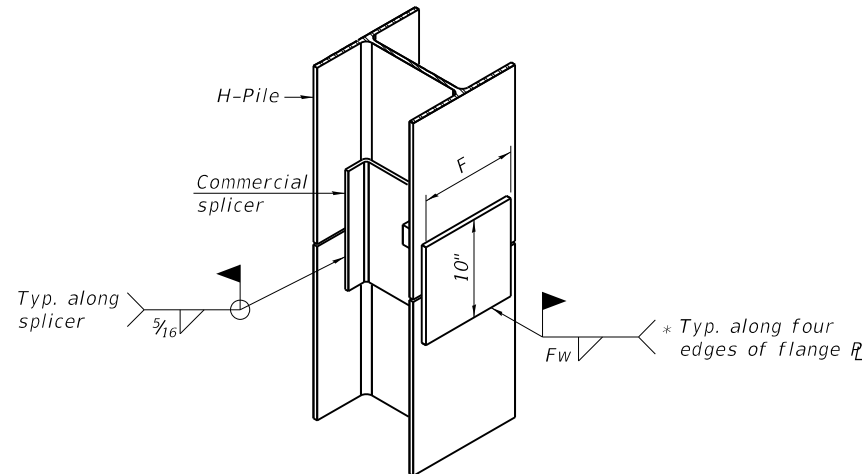


DETAIL "B"



ISOMETRIC VIEW

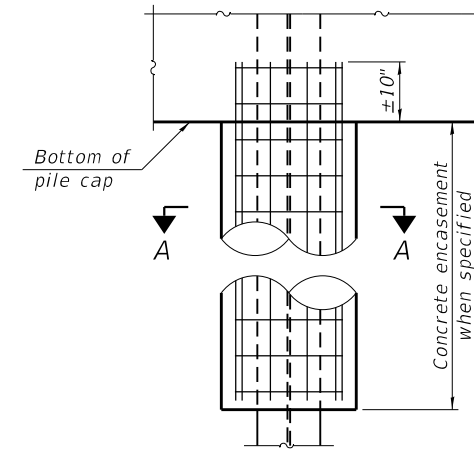
WELDED COMMERCIAL SPLICE



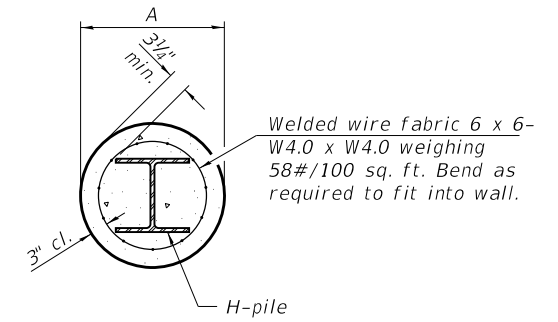
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

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

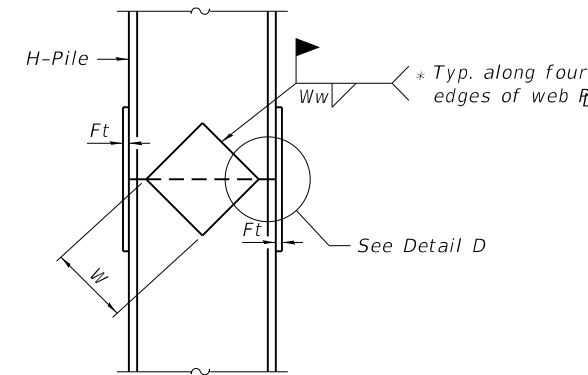


ELEVATION

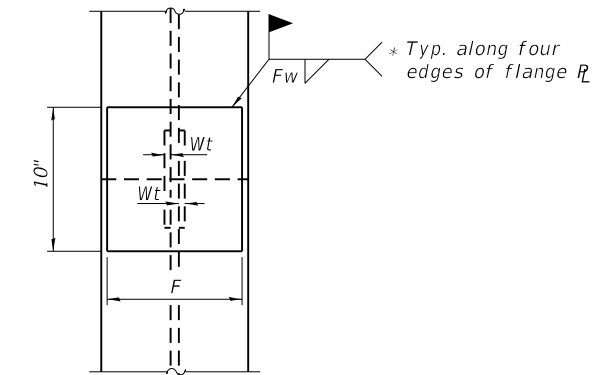


SECTION A-A

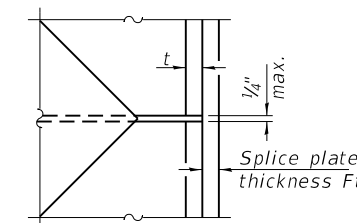
INDIVIDUAL PILE CONCRETE ENCASUREMENT
(Forms for encasement may be omitted when soil conditions permit).



ELEVATION



END VIEW



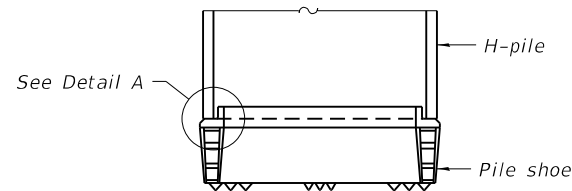
DETAIL D

WELDED PLATE FIELD SPLICE

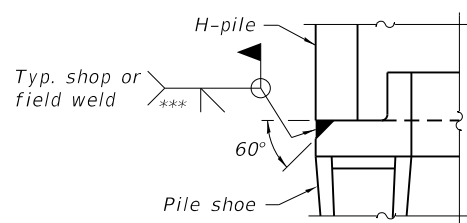
Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"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

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

SHOE ATTACHMENT



ELEVATION



DETAIL A

F-HP 8-11-2017

MODEL: Default FILE NAME: E:\0936-12\StructG_SN_072-0073\4_Final Design\Design Plans\CADD_Sheets\072-0073-D468C57-029-HP\HPileDetails.dgn

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Springfield, Illinois

USER NAME =	DESIGNED - MTH	REVISED -
PLOT SCALE =	CHECKED - VPT	REVISED -
PLOT DATE = 5/29/2019	DRAWN - CGY	REVISED -
	CHECKED - MTH	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**HP PILE DETAILS
STRUCTURE NO. 072-0073**

SHEET 29 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	59
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Page 1 of 2

ROUTE I-74 (FAI 74) DESCRIPTION Bell School Road over I-74 LOGGED BY KEG Date 1/26/17

SECTION 72-3HB LOCATION South Abutment (west end), SEC., TWP., RNG. Latitude 40d 51' 02" N, Longitude 89d 55' 39" W

COUNTY Peoria DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 072-0073
Station 66+91.31 (I-74)
BORING NO. SB-1
Station 123+17 (Bell School Rd)
Offset 34.0 ft RT
Ground Surface Elev. 763.00 ft

DEPTH (ft)	DESCRIPTION	DEPTH (ft)	DEPT (ft)	BLW (in)	U (tsf)	M (%)
0	TOPSOIL with PEA GRAVEL (FILL)	0	0			
3	TOPSOIL with GRAVEL: Black, trace organics (FILL)	3	7	3.6		32
2		2	8	B		
760.50	SILTY CLAY (FILL) Black to gray, very stiff	740.00	2			
2		2	22			
5		5	30	>4.5		19
6		6	50	P		
-5		-5				
3		3				
7		7				
8		8				
2.9		2.9	2.0			21
B		B	S			
3		3				
5		5				
6		6				
1.7		1.7				
B		B				
29		29				
-10		-10				
3		3				
7		7				
4.5		4.5				
P		P				
24		24				
5		5				
8		8				
3.3		3.3				
B		B				
26		26				
-15		-15				
4		4				
8		8				
10		10				
3.6		3.6				
B		B				
25		25				
3		3				
5		5				
2.6		2.6				
B		B				
30		30				
-20		-20				
723.00		723.00				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 2 of 2

ROUTE I-74 (FAI 74) DESCRIPTION Bell School Road over I-74 LOGGED BY KEG Date 1/26/17

SECTION 72-3HB LOCATION South Abutment (west end), SEC., TWP., RNG. Latitude 40d 51' 02" N, Longitude 89d 55' 39" W

COUNTY Peoria DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 072-0073
Station 66+91.31 (I-74)
BORING NO. SB-1
Station 123+17 (Bell School Rd)
Offset 34.0 ft RT
Ground Surface Elev. 763.00 ft

DEPTH (ft)	DESCRIPTION	DEPTH (ft)	DEPT (ft)	BLW (in)	U (tsf)	M (%)
0	TILL: Gray, hard	0				
713.00	NO RECOVERY	-50				
708.00	SHALE: Gray	-65				
703.00		-60				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 2

ROUTE I-74 (FAI 74) DESCRIPTION Bell School Road over I-74 LOGGED BY KEG Date 1/25/17

SECTION 72-3HB LOCATION North Abutment (east end), SEC., TWP., RNG. Latitude 40d 51' 05" N, Longitude 89d 55' 39" W

COUNTY Peoria DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 072-0073
Station 66+91.31 (I-74)
BORING NO. SB-2
Station 120+46 (Bell School Rd)
Offset 33.0 ft LT
Ground Surface Elev. 763.10 ft

DEPTH (ft)	DESCRIPTION	DEPTH (ft)	DEPT (ft)	BLW (in)	U (tsf)	M (%)
0	TOPSOIL with GRAVEL (FILL)	0				
762.10	SILTY CLAY (FILL) Black, trace gravel	742.10	4			
1		1	3			
3		3	21			
2		2				
4		4				
1.7		1.7				
B		B				
28		28				
-5		-5				
7		7				
3		3				
5		5				
2.8		2.8				
S		S				
21		21				
2		2				
5		5				
2.9		2.9				
B		B				
24		24				
-10		-10				
4		4				
8		8				
2.9		2.9				
B		B				
21		21				
3		3				
6		6				
2.1		2.1				
B		B				
21		21				
-15		-15				
7		7				
11		11				
4.5		4.5				
B		B				
21		21				
3		3				
5		5				
2.1		2.1				
B		B				
31		31				
-20		-20				
763.10		723.10				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)

MODEL: Default
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		CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING DATA
STRUCTURE NO. 072-0073

SHEET 30 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	60
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Date 1/25/17

ROUTE I-74 (FAI 74) DESCRIPTION Bell School Road over I-74 LOGGED BY KEG

SECTION 72-3HB LOCATION North Abutment (east end), SEC., TWP., RNG. Latitude 40d 51' 05" N, Longitude 89d 55' 39" W

COUNTY Peoria DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 072-0073 Station 66+91.31 (I-74) BORING NO. SB-2 Station 120+46 (Bell School Rd) Offset 33.0 ft LT Ground Surface Elev. 763.10 ft

Table with columns for Depth (ft), Blows (6"), SPT (tsf), and Penetration (%). Includes soil descriptions like TILL: Gray, hard and SHALE: Gray.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 12/30/64

ROUTE I-74 (FAI 74) DESCRIPTION Bell School Road over I-74 LOGGED BY RL Irwin

SECTION 72-3HB LOCATION North Abutment (west end), SEC., TWP., RNG. Latitude 40d 51' 04" N, Longitude 89d 55' 39" W

COUNTY Peoria DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 072-0073 Station 66+91.31 (I-74) BORING NO. B1-64 Station 120+63 (Bell School Rd) Offset 25.0 ft RT Ground Surface Elev. 741.90 ft

Table with columns for Depth (ft), Blows (6"), SPT (tsf), and Penetration (%). Includes soil descriptions like SILTY CLAY: Light Brown and Gray Mottled, Medium Stiff and CLAY: Gray, Very Stiff.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 12/30/64

ROUTE I-74 (FAI 74) DESCRIPTION Bell School Road over I-74 LOGGED BY RL Irwin

SECTION 72-3HB LOCATION Pier 1 (east end), SEC., TWP., RNG. Latitude 40d 51' 04" N, Longitude 89d 55' 39" W

COUNTY Peoria DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 072-0073 Station 66+91.31 (I-74) BORING NO. B2-64 Station 121+09 (Bell School Rd) Offset 25.0 ft LT Ground Surface Elev. 742.00 ft

Table with columns for Depth (ft), Blows (6"), SPT (tsf), and Penetration (%). Includes soil descriptions like SILTY CLAY: Light Brown and Gray Mottled, Medium Stiff and CLAY: Gray, Very Stiff.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)

MODEL: Default FILE NAME: E:\0936-12\StructG - SN 072-0073-4 - Final Design\Design Plans\CADD_Sheets\072-0073-D468C57-031-SoilBoringData.dgn



Table with columns for USER NAME, DESIGNED, CHECKED, DRAWN, PLOT DATE, REVISED, and MTH/VPT/CGY.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

(Sheet 2 of 4)

SOIL BORING DATA STRUCTURE NO. 072-0073 SHEET 31 OF 33 SHEETS

Table with columns for F.A.I. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO. 68C57, ILLINOIS, FED. AID PROJECT.



SOIL BORING LOG

Date 12/29/64

ROUTE I-74 (FAI 74) DESCRIPTION Bell School Road over I-74 LOGGED BY RL Irwin

SECTION 72-3HB LOCATION Pier 2 (west end), SEC., TWP., RNG. Latitude 40d 51' 04" N, Longitude 89d 55' 39" W

COUNTY Peoria DRILLING METHOD HAMMER TYPE

STRUCT. NO. 072-0073 Station 66+91.31 (I-74) BORING NO. B3-64 Station 121+81 (Bell School Rd) Offset 25.0 ft RT Ground Surface Elev. 740.10 ft

Table with columns for Depth (ft), Blows (6"), SPT (tsf), Moisture (%), and Soil Description. Includes soil types like Silty Clay, Silty Clay Loam, and Clay.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 12/31/64

ROUTE I-74 (FAI 74) DESCRIPTION Bell School Road over I-74 LOGGED BY RL Irwin

SECTION 72-3HB LOCATION Pier 3 (west end), SEC., TWP., RNG. Latitude 40d 51' 03" N, Longitude 89d 55' 39" W

COUNTY Peoria DRILLING METHOD HAMMER TYPE

STRUCT. NO. 072-0073 Station 66+91.31 (I-74) BORING NO. B4-64 Station 122+54 (Bell School Rd) Offset 25.0 ft RT Ground Surface Elev. 740.60 ft

Table with columns for Depth (ft), Blows (6"), SPT (tsf), Moisture (%), and Soil Description. Includes soil types like Silty Clay, Silty Clay Loam, and Clay.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 12/31/64

ROUTE I-74 (FAI 74) DESCRIPTION Bell School Road over I-74 LOGGED BY RL Irwin

SECTION 72-3HB LOCATION Pier 3 (west end), SEC., TWP., RNG. Latitude 40d 51' 03" N, Longitude 89d 55' 39" W

COUNTY Peoria DRILLING METHOD HAMMER TYPE

STRUCT. NO. 072-0073 Station 66+91.31 (I-74) BORING NO. B4-64 Station 122+54 (Bell School Rd) Offset 25.0 ft RT Ground Surface Elev. 740.60 ft

Table with columns for Depth (ft), Blows (6"), SPT (tsf), Moisture (%), and Soil Description. Includes soil types like Silty Clay, Silty Clay Loam, and Clay.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)

MODEL: Default FILE NAME: E:\0936-12\StructG - SN 072-0073-4 - Final Design\Design Plans\CADD_Sheets\072-0073-D468C57-032-SoilBoringData.dgn



Table with columns for USER NAME, DESIGNED, CHECKED, PLOT SCALE, PLOT DATE, REVISED, and MTH/CGY.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING DATA STRUCTURE NO. 072-0073

(Sheet 3 of 4)

SHEET 32 OF 33 SHEETS

Table with columns for F.A.I. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., and CONTRACT NO.



Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 12/31/64

ROUTE I-74 (FAI 74) DESCRIPTION Bell School Road over I-74 LOGGED BY RL Irwin

SECTION 72-3HB LOCATION South Abutment (east end), SEC. TWP. RNG. Latitude 40d 51' 02" N, Longitude 89d 55' 39" W

COUNTY Peoria DRILLING METHOD HAMMER TYPE

STRUCT. NO. 072-0073
Station 66+91.31 (I-74)

BORING NO. B5-64
Station 123+01 (Bell School Rd)
Offset 25.0 ft LT
Ground Surface Elev. 740.80 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After _____ Hrs.

DEPTH (ft)	DESCRIPTION	U (tsf)	M (%)	DEPTH (ft)	DESCRIPTION	U (tsf)	M (%)
0	SILTY CLAY: Light Brown and Gray Mottled, Medium Stiff			0	CLAY: Gray, Hard (continued)	4.0	
5		0.6	31	33			
736.80		B		719.30	SHALEY CLAY: Gray, Hard		
				97			14
-5	SILTY CLAY: Light Brown and Gray Mottled, Stiff			50/6"			
8		1.2					
734.30		B		50/5"			12
	SILTY CLAY LOAM: Light Brown and Gray Mottled, Stiff						
10		1.2	23				
		B		710.30	End of Boring	100/8"	
-10							
7		1.2					
729.30		B					
	SILTY CLAY: Brown, Medium Stiff, Trace Sand						
6		0.8	24				
726.80		B					
	CLAY: Brown, Very Stiff, Trace Sand						
11		2.2					
724.30							
	CLAY: Light Brown and Gray Mottled, Very Stiff, Trace Sand						
18		2.8	19				
721.80		S					
	CLAY: Gray, Hard						
-20							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: E:\0936-12\StructG. SN 072-0073\4. Final Design\Design Plans\CADD_Sheets\072-0073-D468C57-033-SoilBoringData.dgn

(Sheet 4 of 4)

	USER NAME =	DESIGNED - MTH	REVISED -
		CHECKED - VPT	REVISED -
	PLOT SCALE =	DRAWN - CGY	REVISED -
	PLOT DATE = 5/29/2019	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING DATA
STRUCTURE NO. 072-0073

SHEET 33 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB)BRR;130RS-6	PEORIA	83	63
CONTRACT NO. 68C57				
ILLINOIS		FED. AID PROJECT		

21M #17 Horiz. lag screw in fence post East of Gravel Rd.
 Approx. 110' Lt. Sta. 67+20 Elev. 746.72
 Creosoted Appr. Piles:

N. Appr. S. Appr.
 No. Reqd. - 8 8
 Reqd. Length - 28 Ft. 25 Ft.
 El. 758.44

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

DATE	NO.	BY	REV.	SHEET NO.
11-1-74	72-3	PEORIA	50	11
PROJECT: I-74-3(24)73				9 SHEETS

FIELD WELDING OF CONSTRUCTION ACCESSORIES TO THE BOTTOM FLANGES OR FOR A DISTANCE OF 1' OF THE SPAN EACH WAY FROM PIER SUPPORTS OR THE TOP FLANGES OF BEAMS OR GIRDERS WILL NOT BE PERMITTED. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

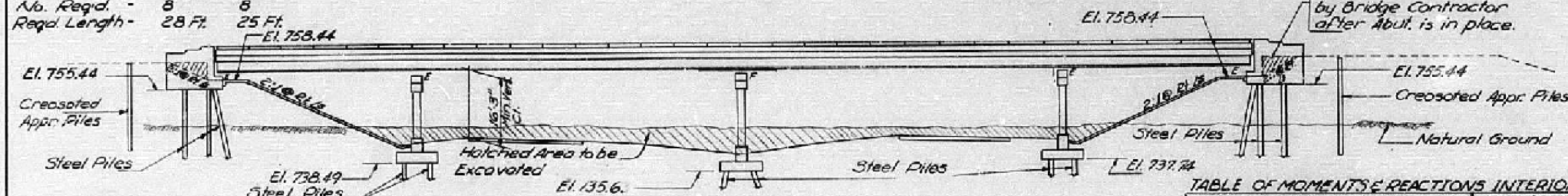


TABLE OF MOMENTS & REACTIONS INTERIOR BEAM

	Moments - Ft. Kips		Reactions - Kips	
	4. Span	Pier 1	5. Span	Pier 2
D.L.	80.0	-329.0	216.2	-513.0
L.L.	257.7	-289.1	375.2	-376.4
Imp.	77.3	-80.9	93.8	-94.1
Total	415.0	-699.0	685.2	-983.5

D.L. = Dead Load L.L. = Live Load Imp. = Impact

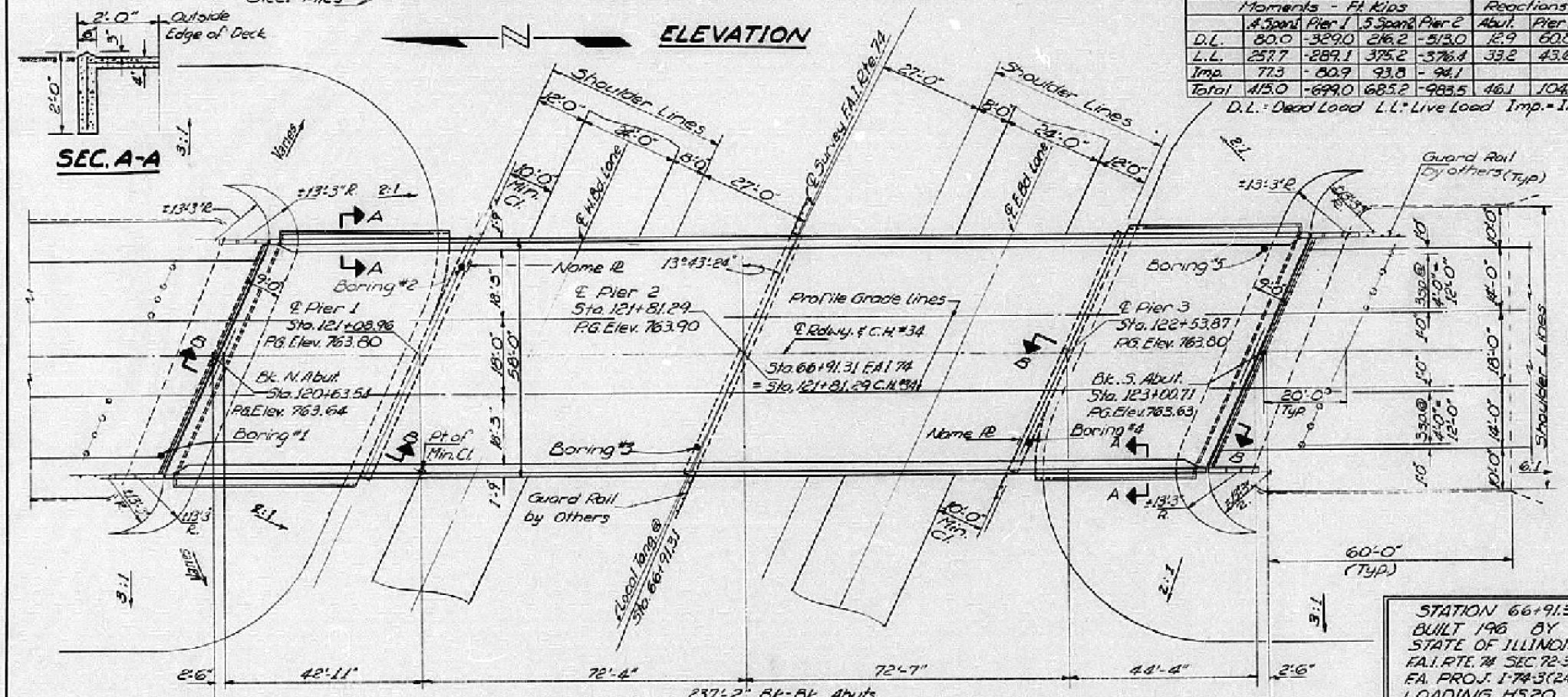
GENERAL NOTES

Class X Concrete shall be used throughout. Coarse aggregate to be used in parapet handrails and end post must be absolutely free of chert, flint, limonite, lignite and soft sandstone. The concrete floor slab shall be finished in accordance with Art. 51.19 of the Standard Specifications. Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, #4 wires, weighing 58# per 100 Sq. Ft. All reinforcement bars shall be lapped 20 dia. unless otherwise shown. Rivets 3/8" Open holes 1 3/8", unless otherwise noted. Anchor bolts shall be set before riving diaphragms over supports. The exposed surfaces of the expansion guards shall be given two shop coats of red lead paint, the contact surfaces shall be given one coat of red lead paint. Anchor studs shall not be painted. Expansion guards are in the quantity of Struct. Steel. Est. weight 1950 lbs. Except as otherwise provided, all struct steel shall receive one shop coat of red lead paint and two field coats of paint. See Special Provisions. Permanent forms will not be permitted in forming the concrete floor. All structural steel shall comply with the specification for structural steel ASTM Designation A-36. The Contractor shall drive three (3) steel (88P36) test piles, one each at Pier 1, Pier 2 & S. Abut. in permanent location, as directed by the Engr before ordering the remainder of piles.

Excavation for portions of structures in the calculations shall not be classified.

TOTAL BILL OF MATERIAL

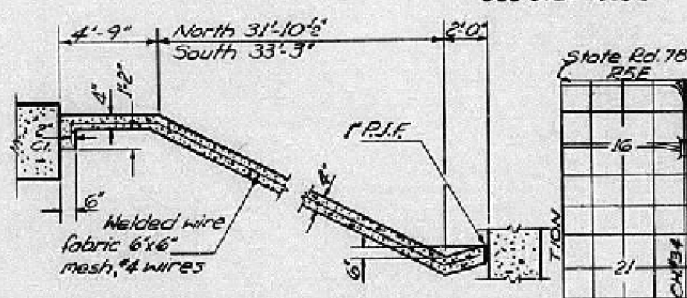
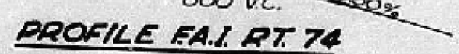
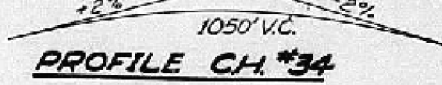
ITEM	Super	Sub.	Total
Class 'A' Excavation for Struc. Cu. Yds.			240
Class X Concrete Cu. Yds.	399.5	376.8	776.1
Structural Steel Lbs.	36970		36970
Aluminum Handrail Lin. Ft.	468		468
Reinforcement Bars Lbs.	115830	40750	156,580
Creosoted Piles (20'-38') Lin. Ft.			424
Steel Piles (88P36) Lin. Ft.		2577	2577
Test Piles (Steel 88P36) Ea.		3	3
Name Plates Ea.		2	2
Slope Wall (2') Sq. Yds.			657
Protective Coat Sq. Yds.			1683
Bridge Seal Sealant Lump Sum			



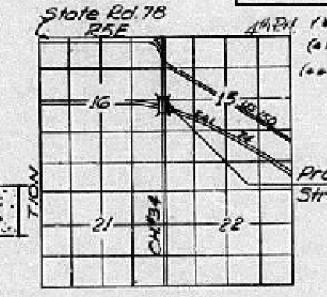
STATION 66+91.31
 BUILT 1968 BY
 STATE OF ILLINOIS
 F.A.I. RTE. 74 SEC. 72-3HB
 EA. PROJ. I-74-3(24)
 LOADING H520

NAME PLATE
 See Std. 2113-1

CURVE DATA
 F.A.I. RT. 74
 P.I. Sta. 68+85.66
 $\Delta = 31^\circ 45' 12''$
 $D = 1^\circ 00'$
 $SA = 210'$
 $L = 3,175.33'$
 $SE = 0.03\%$
 $R = 5729.58'$
 $PC Sta. 52+56.07$
 $PT Sta. 84+31.40$



LOCATION PLAN



GENERAL PLAN & ELEVATION
 PROJ. I-74-3(24) 73
 CH #34 OVER F.A.I. RTE. 74
 F.A.I. RTE. 74 SEC. 72-3HB
 PEORIA COUNTY
 STA. 66+91.31

DESIGN STRESSES
 $f_c = 1400$ psi Super & Sub.
 $f_t = 75$ psi Flgs.
 $f_s = 20,000$ psi Reinf.
 $f_b = 20,000$ psi Struct.
 $n = 10$
 Allowable δ Deflection $1/1000$
 LOADING H520-44

DESIGNED: P. J. ...
 CHECKED: R. D. PATEL
 DRAWN: A. Borrozo
 CHECKED: J. P. ...
 EXAMINED: Paul ...
 DATED: 10/19/1965
 APPROVED: J. P. ...

Rev. 8-8-67 Class X Super from #11 to 3993 Cu. Yds. Total Class X-Form 792.9 to 776.1 Cu. Yds. Reinf. Bars Super from 115830 to 115450 lbs. Total Reinf. from 156,830 to 156,200 lbs. Reinf. Bars Sub from 40,750 to 40,750

Rev. 1-31-67 raised "By Others" from Guard Rail Note.

The Upchurch Group
 architects engineers surveyors
 121 North 15th Street
 Moline, IL 61708
 Phone: 312.253.3177
 License No. 184-023401
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME	# Sta37	DESIGNED	-	REVISED	-
DESIGNED	-	DRAWN	-	REVISED	-
CHECKED	-	CHECKED	-	REVISED	-
DRAWN	-	DATE	-	REVISED	-
CHECKED	-				

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING GENERAL PLAN AND ELEVATION
 BELL SCHOOL ROAD OVER I-74

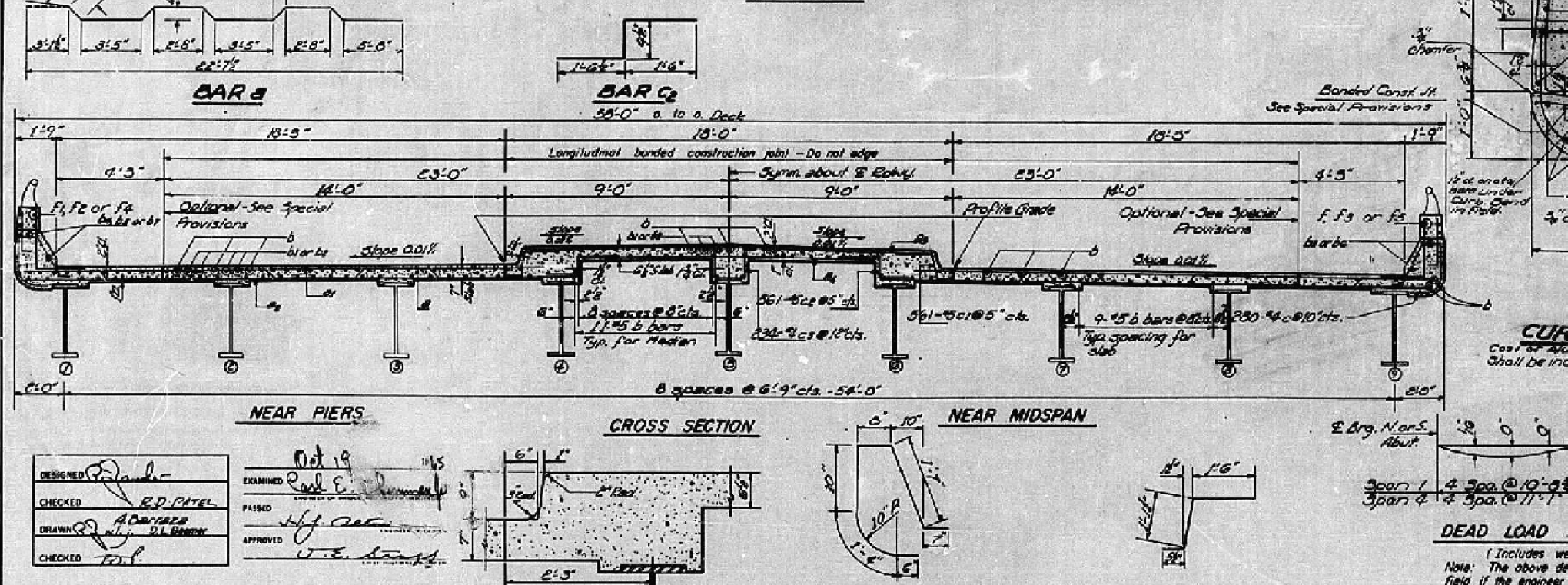
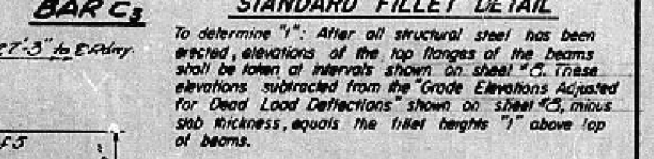
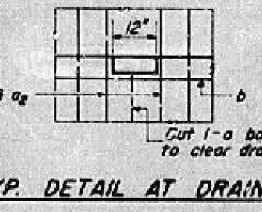
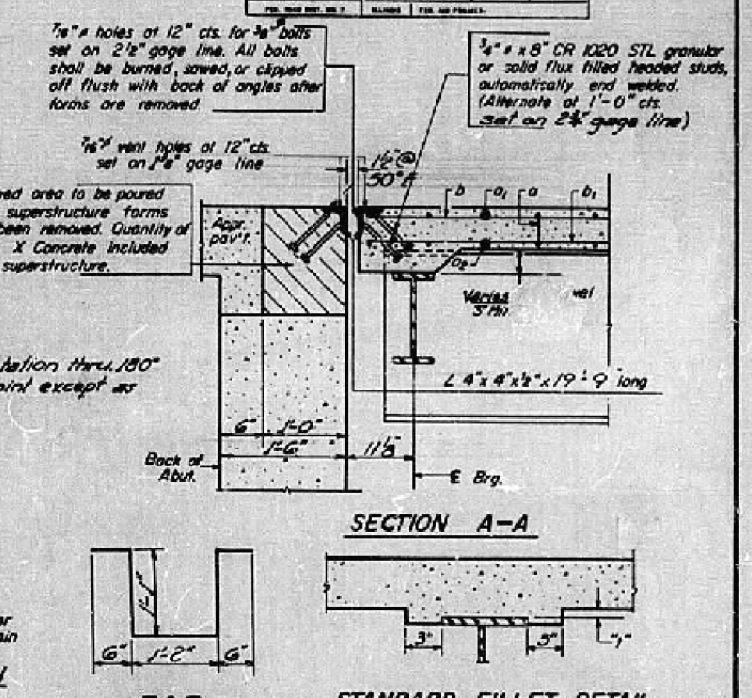
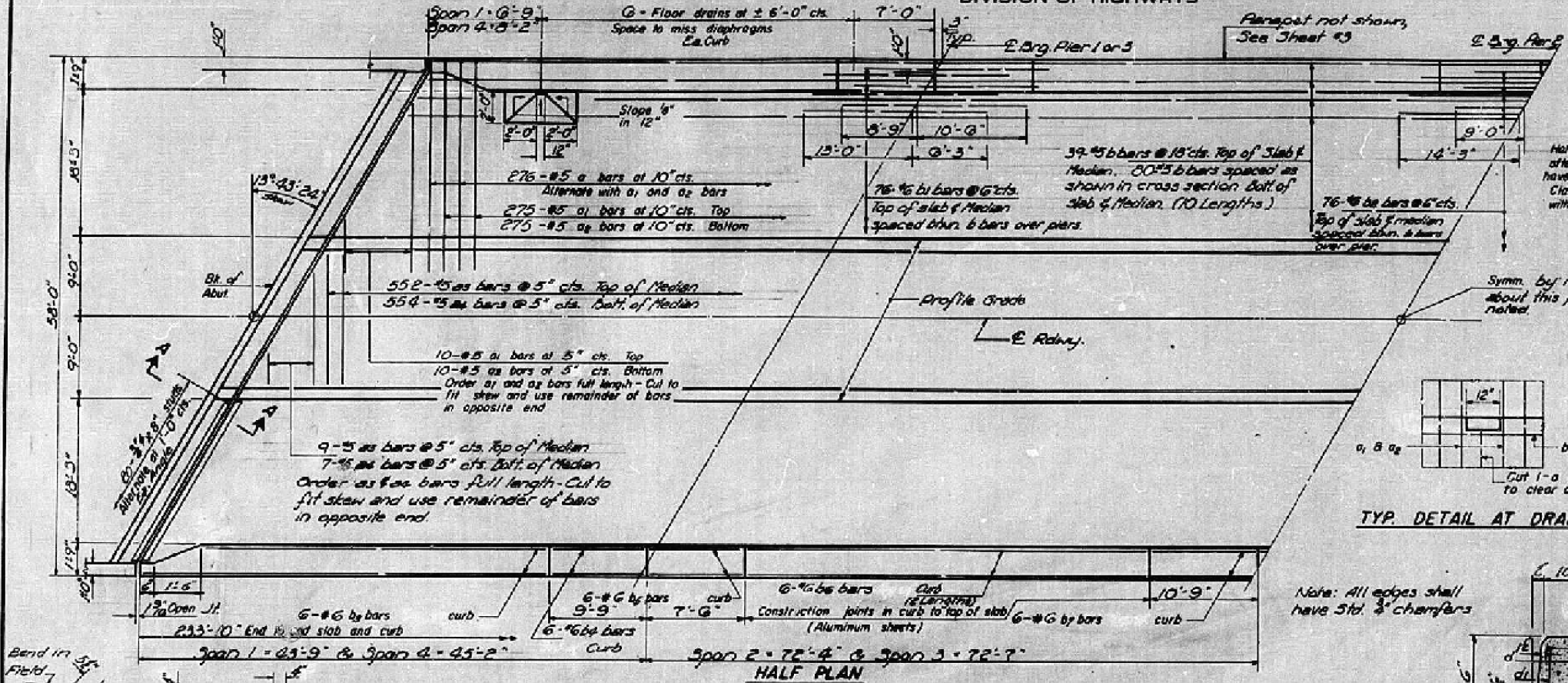
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB) BRR, 130 RS-6	PEORIA	83	64
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68C57	

Note:
No drains in spans 2 & 3

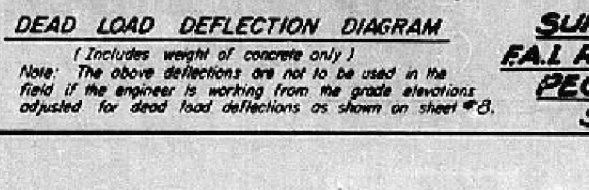
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO. 72-3	COUNTY PEORIA	SECTION 50	SHEET NO. 12	SHEET NO. 2
---------------------	------------------	---------------	-----------------	-------------



BILL OF MATERIAL					
Bar	No.	Size	Length	Shape	
a	552	#5	23'-5"	—	—
a1	370	#5	21'-6"	—	—
a2	370	#5	22'-6"	—	—
a3	361	#5	16'-6"	—	—
a4	361	#5	15'-0"	—	—
b	1190	#5	24'-0"	—	—
b1	132	#6	19'-3"	—	—
b2	76	#6	23'-3"	—	—
b3	24	#6	35'-0"	—	—
b4	24	#6	9'-0"	—	—
b5	24	#6	7'-3"	—	—
b6	24	#6	27'-0"	—	—
b7	24	#6	10'-0"	—	—
c	360	#4	5'-6"	—	—
c1	1122	#4	3'-1"	—	—
c2	1122	#4	3'-10"	—	—
c3	234	#4	4'-4"	—	—
Reinforcement Bars			Lbs	123,780	
Structural Steel			Lbs	50,970	
Class X Concrete			Cu Yd.	3833	

* Weight of bearing assemblies with lead plates and anchor bolts are included as structural steel. Est. Weight = 12,370 #.



I-12-L (> 15°) (L.B.) 7-2-62 Rev. 11-15-62
Rev. 12-27-67 216 ref. wgt. clearance of top slab edge to 1" min. 6'-2"

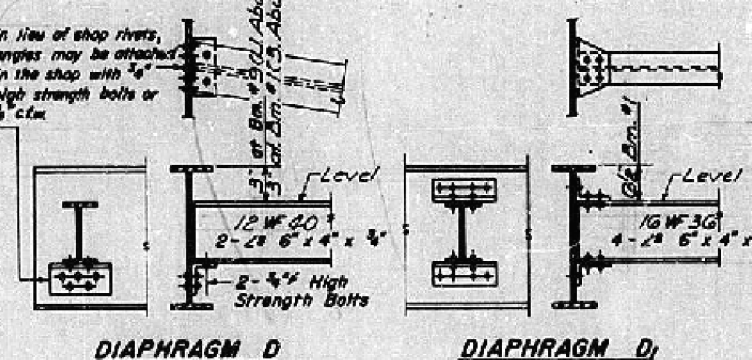
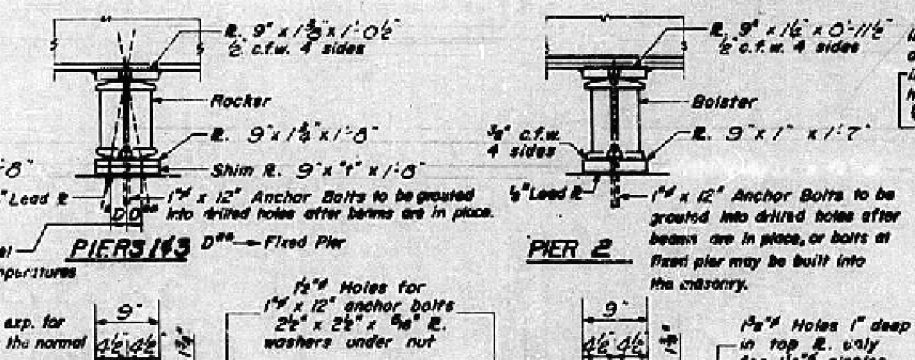
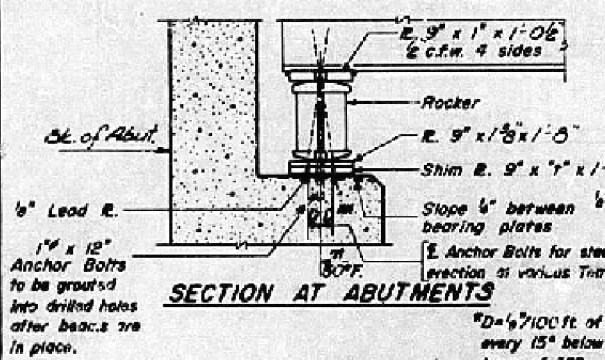
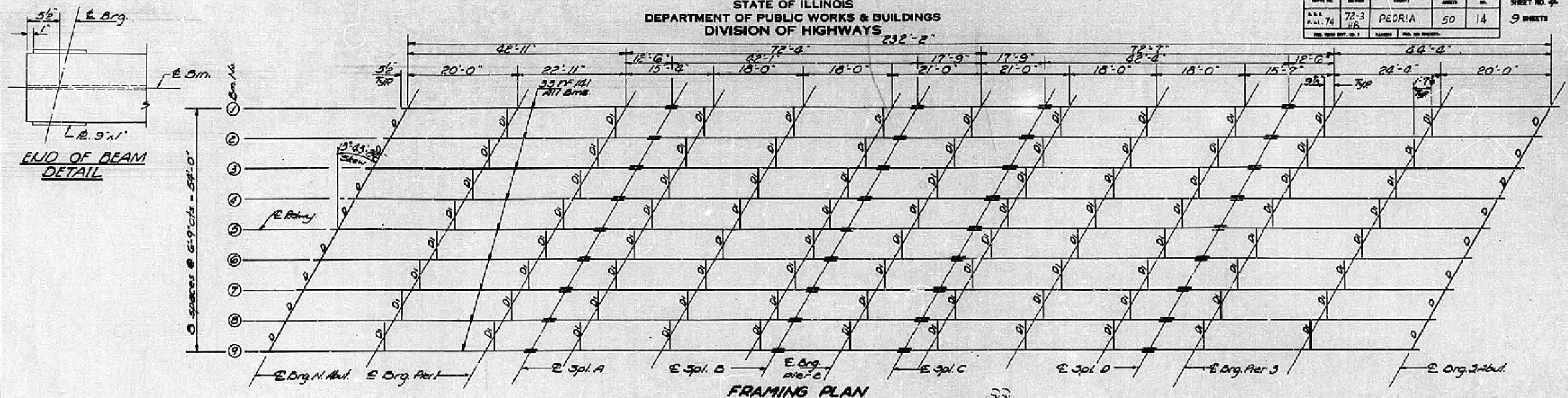
DESIGNED: R. D. PATEL
CHECKED: R. D. PATEL
DRAWING: A. CARPENTER, D. L. BERRY
CHECKED: T. J. J.

EXAMINED: Paul E. ...
PASSED: ...
APPROVED: J. E. ...

SUPERSTRUCTURE
F.A. RT. 74 SEC. 72-3HB
PEORIA COUNTY
STA. 66 + 91.31

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

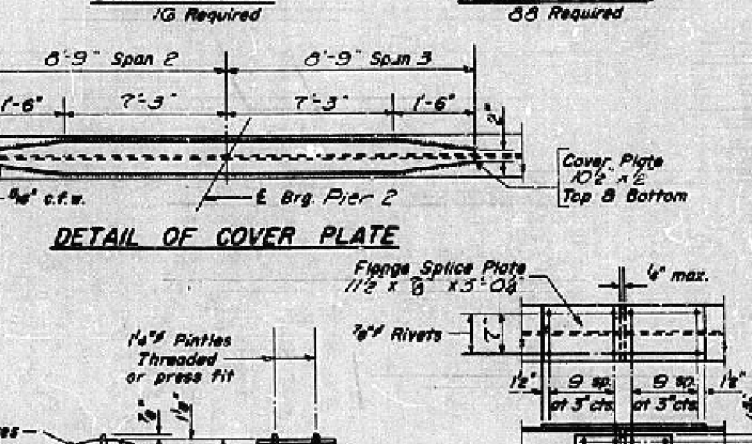
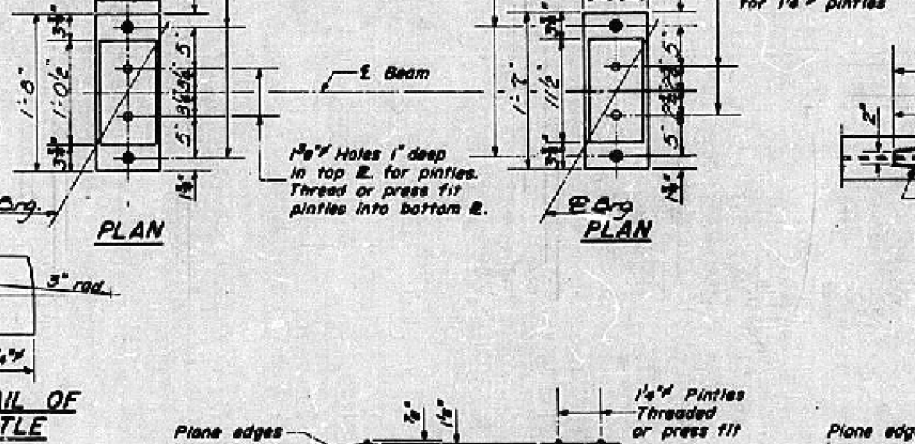
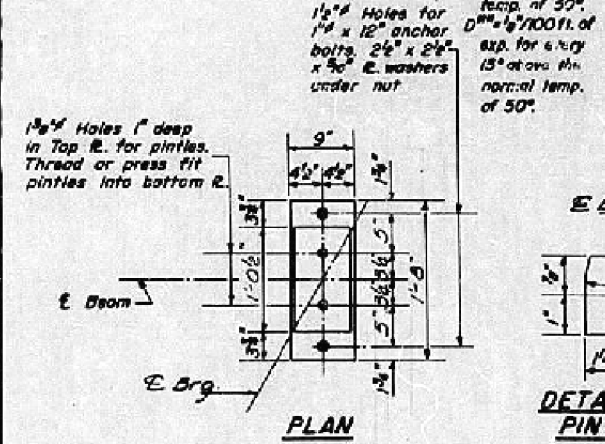
DATE	REVISED	BY	TOTAL SHEETS	SHEET NO.
7-2-62	7-2-62	PEORIA	50	14
9 SHEETS				



ELEVATION TOP OF 33 WF 141 BMS

Loc. No.	E Org. N. Abut.	E Org. Pier 1	E Spl. A	E Spl. B	E Org. Pier 2
1	762912	763004	763041	763063	763079
2	762973	763067	763089	763129	763140
3	763093	763131	763159	763210	763214
4	763094	763194	763223	763263	763282
5	763154	763257	763287	763349	763349
6	763079	763183	763216	763280	763282
7	763004	763112	763144	763212	763214
8	762929	763047	763073	763143	763140
9	762034	762966	763001	763074	763079

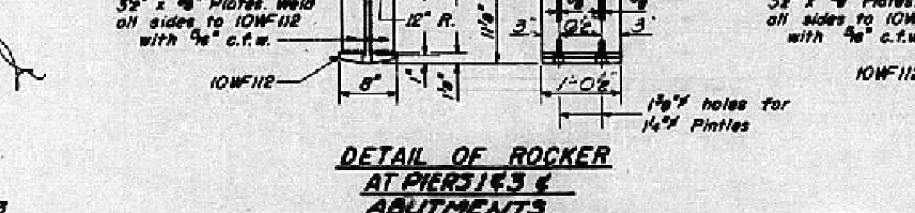
Loc. No.	E Spl. C	E Spl. D	E Org. Pier 3	E Org. Abut.
1	763074	763000	762966	762966
2	763143	763074	763099	762982
3	763212	763143	763111	762987
4	763280	763215	763184	763072
5	763349	763280	763259	763147
6	763280	763222	763192	763096
7	763216	763139	763130	763086
8	763149	763095	763067	762966
9	763083	763037	763009	762906



SHIM 4" DIMENSIONS

Loc. No.	North Abut.	Pier 1	Pier 2	Pier 3	South Abut.
1	4"	7/8"			
2	4"				
3					
4					
5					
6					
7					
8					4"
9				7/8"	4"

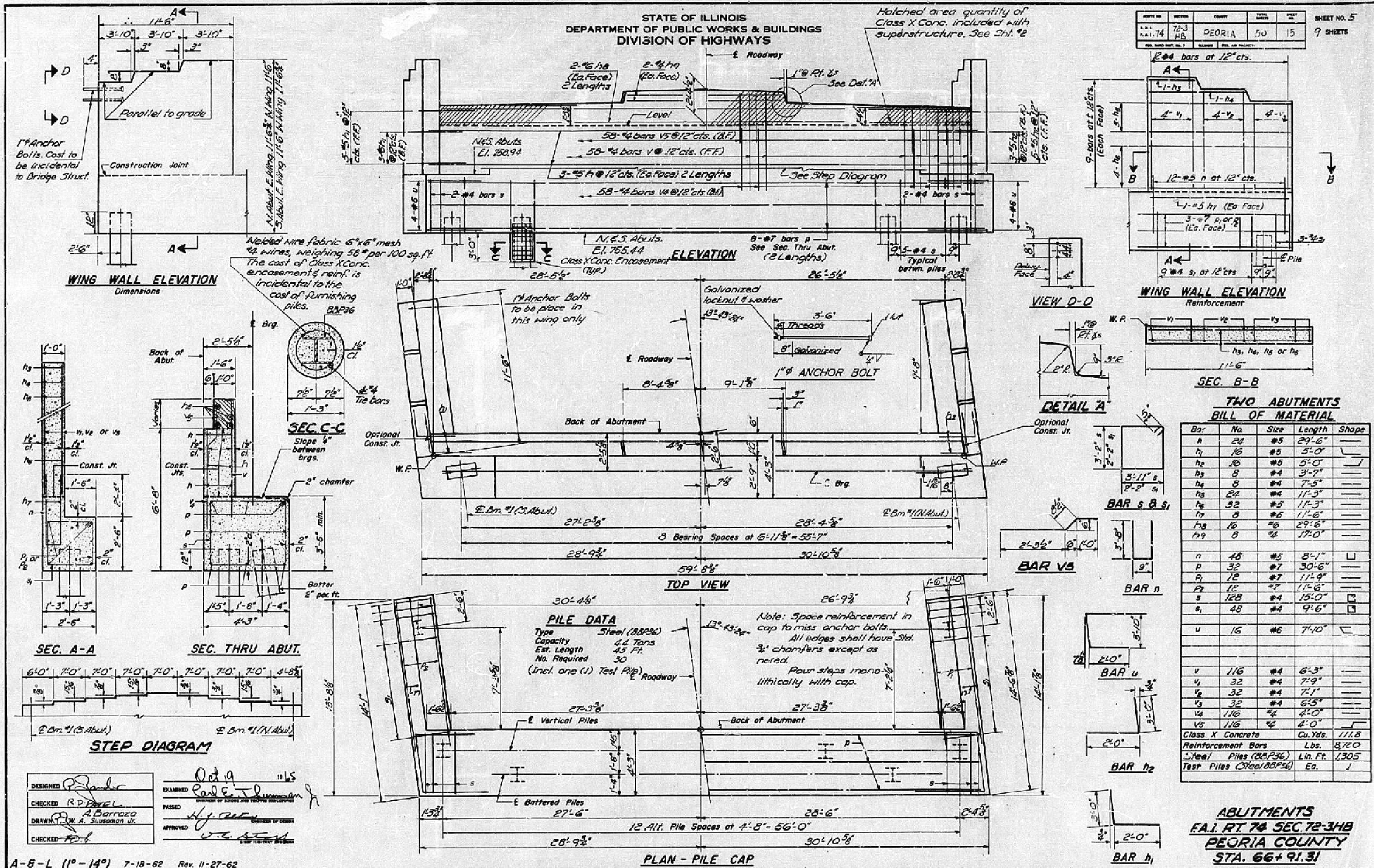
DESIGNED: P. J. [Signature]
 CHECKED: R. D. DATE
 DRAWING: W. A. Sausman Jr.
 APPROVED: [Signature]
 DATE: MAY 29, 2019



STRUCTURAL STEEL
 I-2-C 7-2-62 Rev. 11-9-62 Rev. 8-16-63 Rev. 12-10-63
 STA. 66+91.31

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

PROJECT NO.	74-3	SECTION	50	SHEET	15
DATE	7-18-62	COUNTY	PEORIA	9 SHEETS	



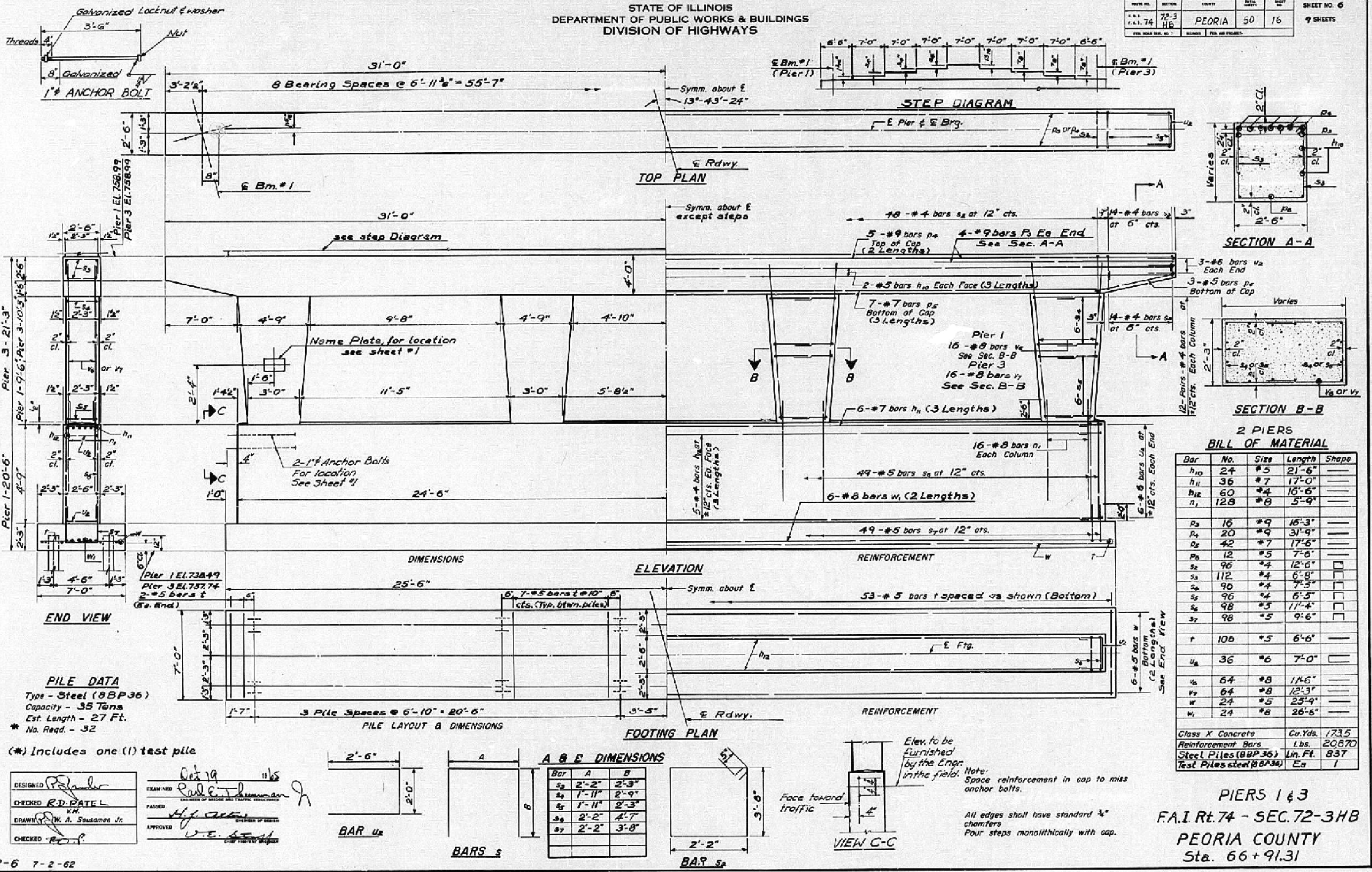
DESIGNED: P. Jander
CHECKED: R. D. P. L.
DRAWN: W. A. Slusson Jr.
EXAMINED: Paul E. J. [Signature]
PASSED: [Signature]
APPROVED: J. E. [Signature]

A-8-L (1°-14°) 7-18-62 Rev. 11-27-62

Rev. 8-8-67 Rein. Bars from 8670 to 8760

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

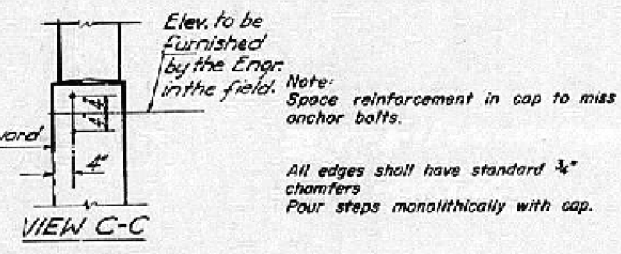
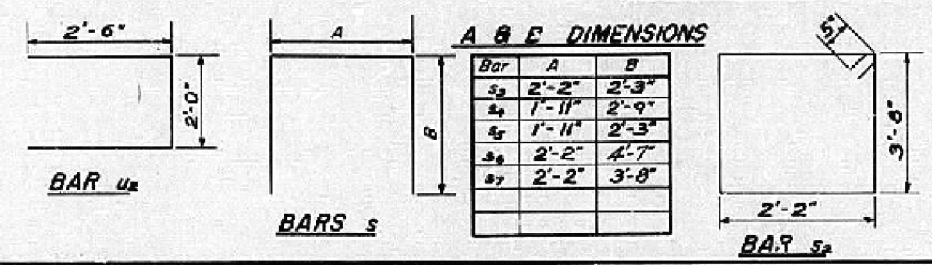
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 74	72-3 HB	PEORIA	50	16
SHEET NO. 6 9 SHEETS				



PILE DATA
Type - Steel (BBP36)
Capacity - 35 Tons
Est. Length - 27 Ft.
* No. Req. - 32

(* Includes one (1) test pile

DESIGNED	<i>[Signature]</i>	EXAMINED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>	PASSED	<i>[Signature]</i>
DRAWN	<i>[Signature]</i>	APPROVED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>		



P:\Civil\DOT\DIST\Ball School Road Phase II.PIB...CAD_Sheets\0720073-68C57-Existing Pier1&3.dwg

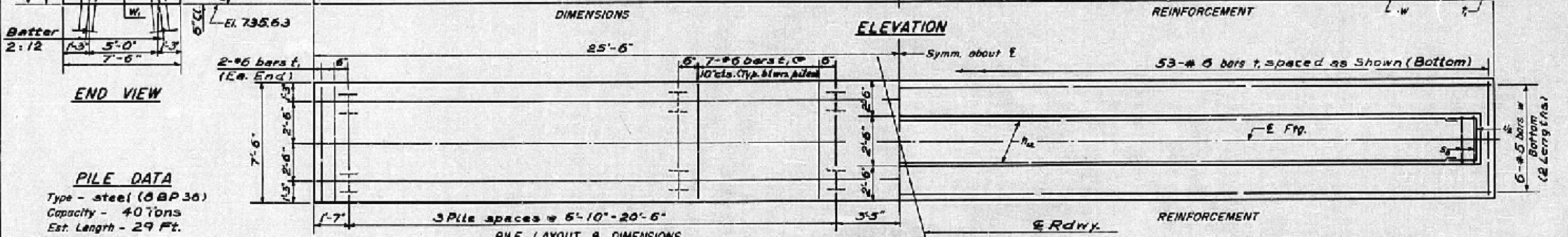
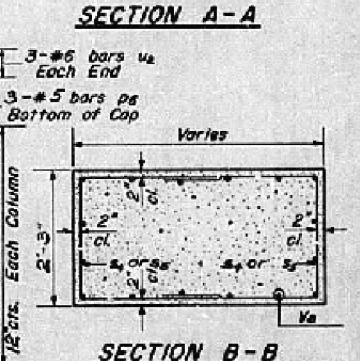
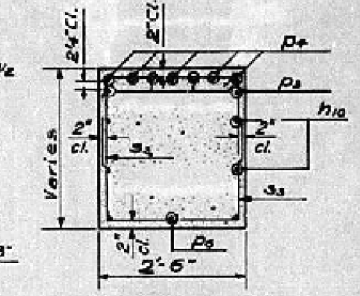
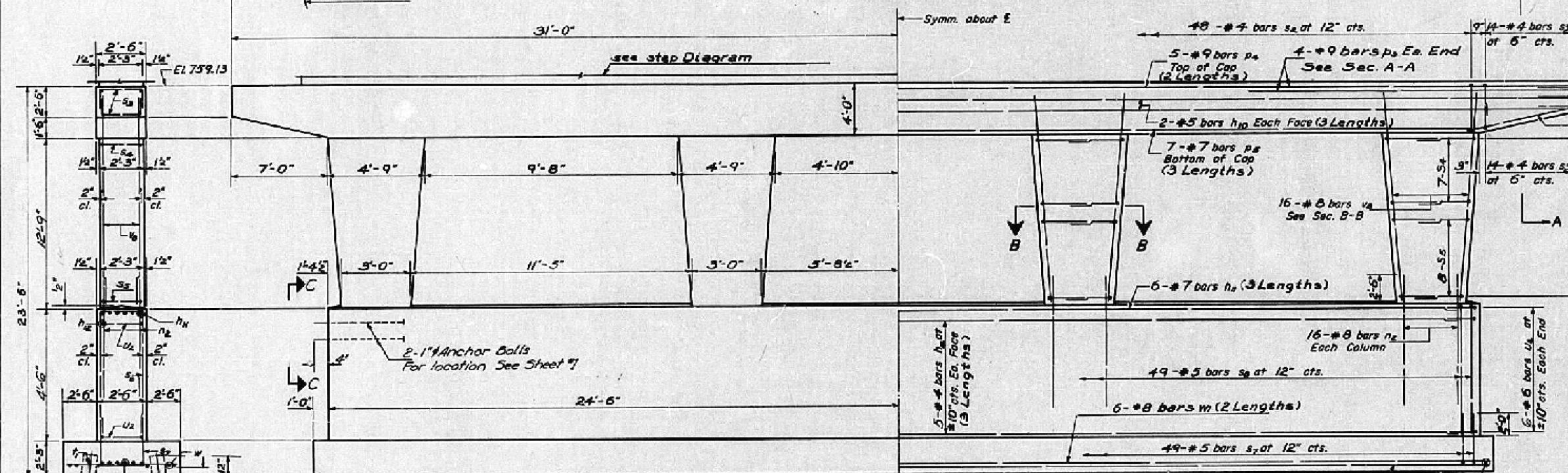
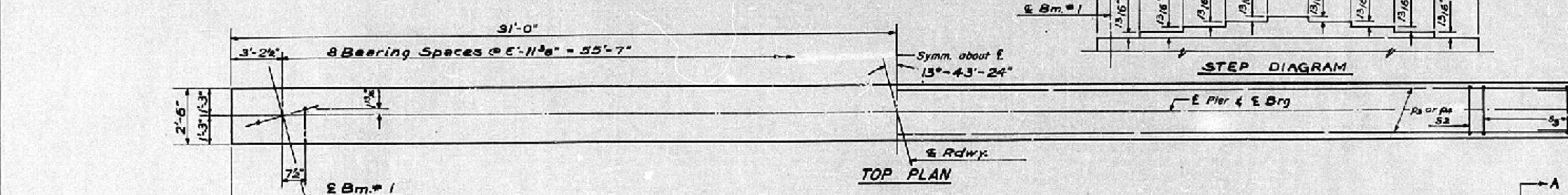
The Upchurch Group
architects engineers surveyors
121 North 15th Street
Mason, IL 61840
Phone: 312.253.3177
Fax: 312.253.3177
e-mail: upchurchgroup@upchurchgroup.com

USER NAME	# Sta37	DESIGNED	-	REVISED	-
DRAWN	- SAE	DRAWN	-	REVISED	-
CHECKED	- M/S	CHECKED	-	REVISED	-
DATE	- MAY 29, 2019	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PIERS 1 & 3
BELL SCHOOL ROAD OVER I-74
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB) BRR. 130 RS-6	PEORIA	83	68
CONTRACT NO. 68C57				



PILE DATA
Type - steel (8BP36)
Capacity - 40 tons
Est. Length - 29 Ft.
* No. Req. - 16
* Includes one (1) test pile

DESIGNED: P. Patel
CHECKED: R.D. Patel
DRAWN: W.A. Sausaman Jr.
CHECKED: J.P.

EXAMINED: Paul E. Thompson Jr.
PASSED: [Signature]
APPROVED: [Signature]

PILE LAYOUT & DIMENSIONS

3 Pile spaces @ 6'-10" = 20'-6"

2'-6" x 2'-0" BAR u2

2'-2" x 3'-8" BAR s2

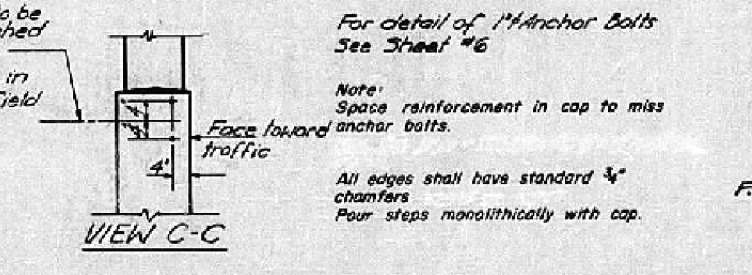
Bar	A	B
s2	2'-2"	2'-3"
s3	1'-11"	2'-9"
s4	1'-11"	2'-3"
s7	2'-2"	3'-8"
s8	2'-2"	4'-4"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h2	12	#5	27'-8"	
h10	18	#7	17'-0"	
h2	30	#4	16'-6"	
v2	64	#8	5'-6"	
p4	8	#9	16'-3"	
p5	10	#9	31'-9"	
p2	21	#7	17'-6"	
p2	6	#5	7'-6"	
s2	48	#4	12'-6"	
s3	56	#4	6'-8"	
s4	56	#4	7'-5"	
s5	64	#4	6'-5"	
s7	49	#5	9'-6"	
s8	49	#5	10'-10"	
t	53	#6	7'-0"	
u2	18	#6	7'-0"	
v2	64	#8	14'-9"	
w	12	#5	28'-9"	
w2	12	#8	26'-6"	

Class X Concrete	Cu. Yds.	91.5
Reinforcement Bars	Lbs.	11,660
Steel Piles (8BP36)	Lin. Ft.	435
Test Piles size (8BP36)	Ea.	1

PIER 2
F.A.I. RT. 74 - SEC. 72-3 HB
PEORIA COUNTY
Sta. 66 + 91.31



Rev. 12/1/17 Added Anchor Bolts for Guard Rail
Quantity of Class X Conc. & Reinf. Bars as per P. 2

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

Boring No.	Station	Offset	Ground Surface	Depth	N	Q _u (t/sf)	w (%)
1	180+69	25' W of along R. of	722.00				
				0.78	5		
				0.75	5		
			721.4				
				1.50	8		
			720.9				
				0.72	5		
			720.4				
				0.28	7		
			720.0				
				2.28	11		
			720.4				
				1.77	14		
			720.9				
				1.42	20		
			720.4				
				4.40	60		
			721.2				
				4.46	23		
			721.4				
				7.33	30		
			721.4				

Surface Water El. _____
Groundwater El. of Completion 717.9
After 24 Hours 720.2

Boring No.	Station	Offset	Ground Surface	Depth	N	Q _u (t/sf)	w (%)
2	181+09	25' W of along R. of	722.00				
				0.29	4		
			720.0				
				1.26	26		
			720.2				
				1.11	10		
			720.6				
				2.17	10		
			720.5				
				0.28	5		
			720.0				
				2.77	12		
			720.2				
				0.58	6		
			720.0				
				2.77	20		
			720.9				
				4.40	60		
			720.0				
				4.40	23		
			721.0				
				7.33	30		
			721.5				

Surface Water El. _____
Groundwater El. of Completion 720.0
After 24 Hours 720.0

Boring No.	Station	Offset	Ground Surface	Depth	N	Q _u (t/sf)	w (%)
3	181+08	25' W of along R. of	722.00				
				0.43	4		
			720.0				
				0.50	6		
			720.6				
				0.6	6		
			720.6				
				2.28	8		
			720.1				
				2.12	8		
			720.6				
				3.23	12		
			720.1				
				7.33	30		
			720.1				
				3.40	71		
			720.1				
				4.40	23		
			720.6				

Surface Water El. _____
Groundwater El. of Completion 720.1
After 24 Hours 720.1

Boring No.	Station	Offset	Ground Surface	Depth	N	Q _u (t/sf)	w (%)
4	180+61	25' W of along R. of	720.10				
				0.32	4		
			720.4				
				1.43	7		
			724.1				
				1.97	8		
			721.6				
				1.20	6		
			720.1				
				2.28	7		
			720.4				
				2.28	14		
			724.9				
				2.0	23		
			721.6				
				4.58	29		
			719.1				
				3.40	71		
			720.1				
				4.40	23		
			720.1				
				7.33	30		
			720.1				
				4.40	23		
			720.1				
				4.40	23		
			720.1				

Surface Water El. _____
Groundwater El. of Completion None
After 12 Hours 723.8

Boring No.	Station	Offset	Ground Surface	Depth	N	Q _u (t/sf)	w (%)
5	180+81	25' W of along R. of	720.00				
				0.62	5		
			720.5				
				1.17	8		
			720.2				
				1.17	10		
			720.2				
				1.26	7		
			720.3				
				0.43	6		
			720.0				
				2.28	11		
			724.9				
				2.77	18		
			721.0				
				4.09	32		
			719.3				
				4.40	23		
			720.3				

Surface Water El. _____
Groundwater El. of Completion None
After 12 Hours 723.8

N - Standard Penetration Test - Blows per foot to drive 2" C.D. Split Sleeve Sampler (S) with 140# hammer falling 30".

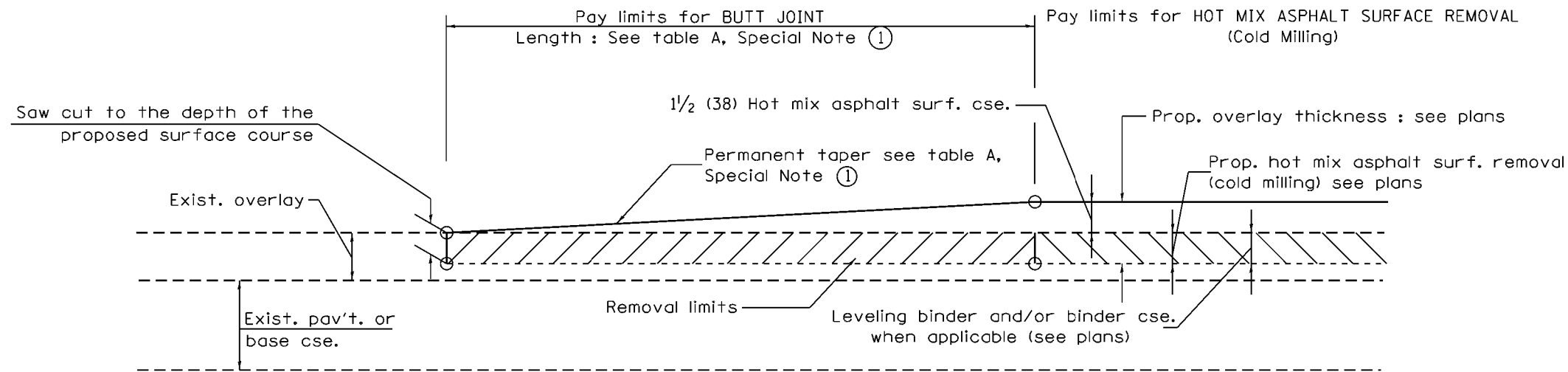
Q_u - Unconfined Compressive Strength - 1/4"
w - Water Content - percentage of oven dry weight - %

Type Soils:
B - Silty Silt
S - Silty Sand
F - Silty Clay

DESIGNED: R. G. PATIL
CHECKED: R. G. PATIL
DRAWN:
CHECKED:

EXAMINED: Paul E. Thompson
PASSEL:
APPROVED: J. E. Smith

BORING DATA
F.A.I. RT. 74 SEC. 72-3HB
PEORIA COUNTY
STA. 66+91.31



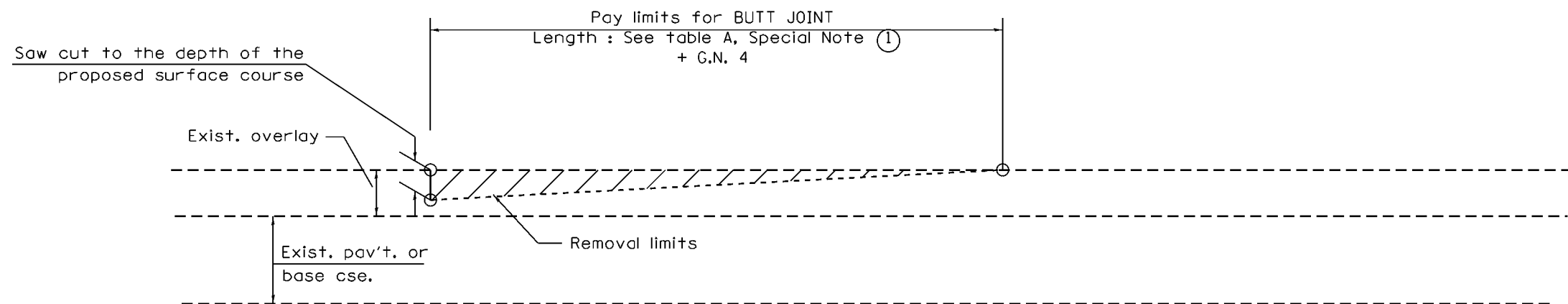
CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

**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

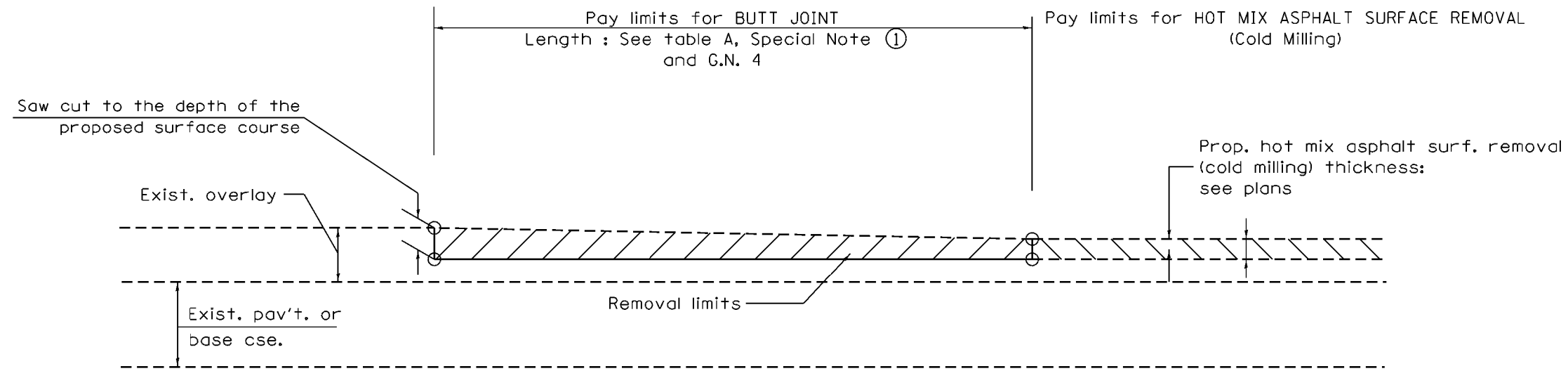
GENERAL NOTES

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.

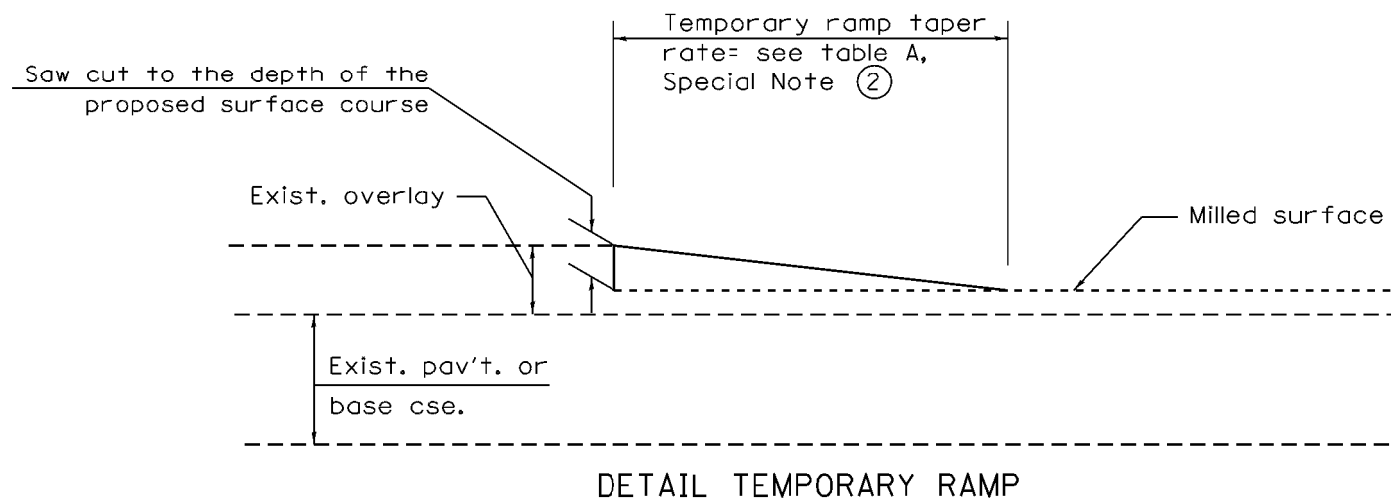


CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

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

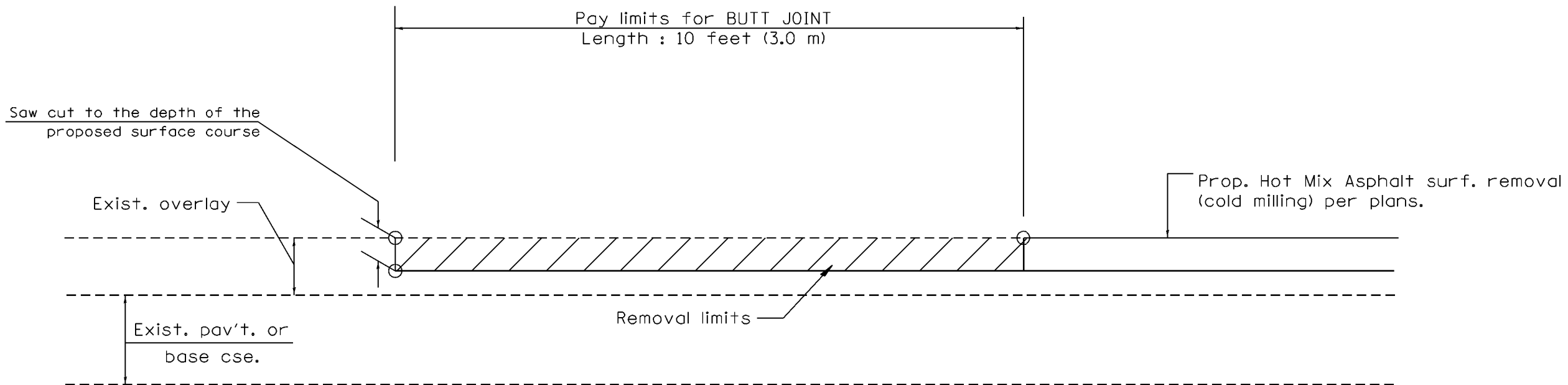


**CASE 3 : HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER**



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

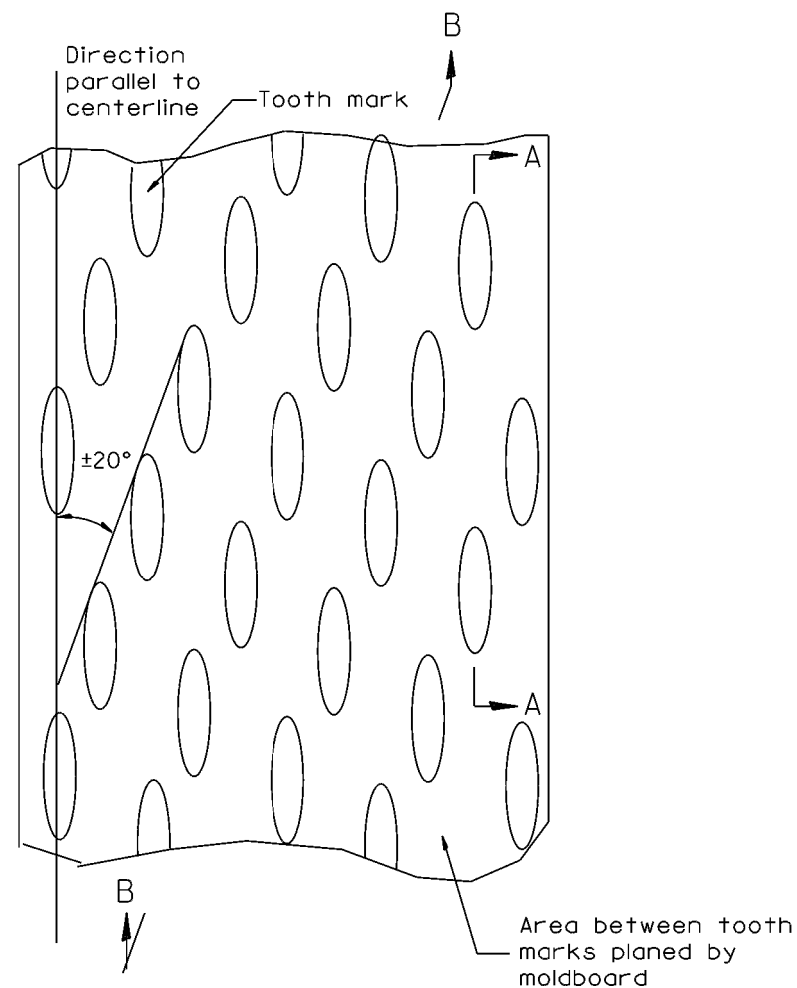
				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		BUTT JOINTS		SHT. 2 OF 3 CADD STD. 406101-D4	
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
74	(72-3HB) BRR; 130 RS-6	PEORIA	83	72	CONTRACT NO. 68C57				
					FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				



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.

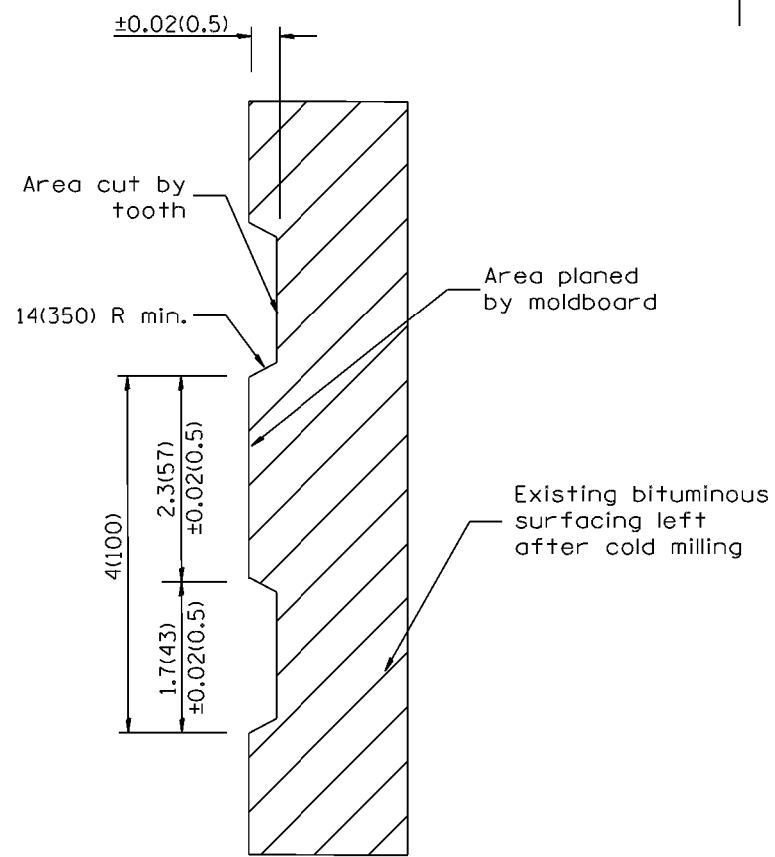
						STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINTS	SH1. 3 OF 3 CADD STD. 406101-D4	<table border="1" style="font-size: 8px;"> <tr> <th>F.A. RTE.</th> <th>SECTION</th> <th>COUNTY</th> <th>TOTAL SHEETS</th> <th>SHEET NO.</th> </tr> <tr> <td>74</td> <td>(72-3HB) BRR; 130 RS-6</td> <td>PEORIA</td> <td>83</td> <td>73</td> </tr> </table>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	74	(72-3HB) BRR; 130 RS-6	PEORIA	83	73
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.															
74	(72-3HB) BRR; 130 RS-6	PEORIA	83	73															
						NOT TO SCALE			FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT CONTRACT NO. 68C57										



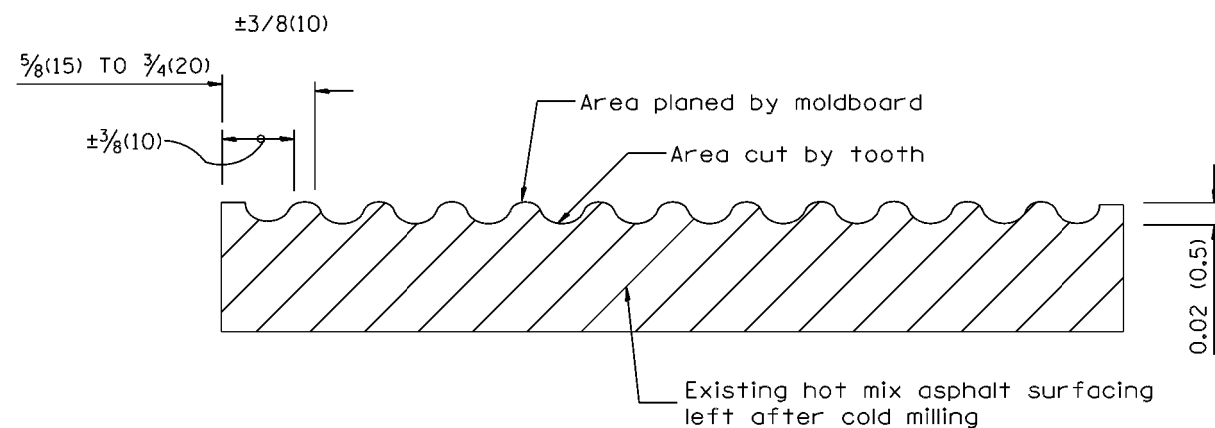
PLAN

General notes:

1. Coldmilling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.



SECTION A-A



SECTION B-B PROJECTED
PERPENDICULAR TO CENTERLINE

DESIGNER NOTES:
1. INCLUDE DISTRICT SPECIAL PROVISION, IF APPLICABLE.

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

01-01-97	RENUM. C-104.01, NEW REVISION BOX	T.P.
04-20-98	REMOVED MILLING DETAIL FROM STANDARD	J.A.
09-08-98	CORRECT NOTE LEADER PLACEMENT	R.W.
10-16-06	REVISED TO 2007 SPEC.	M.A.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

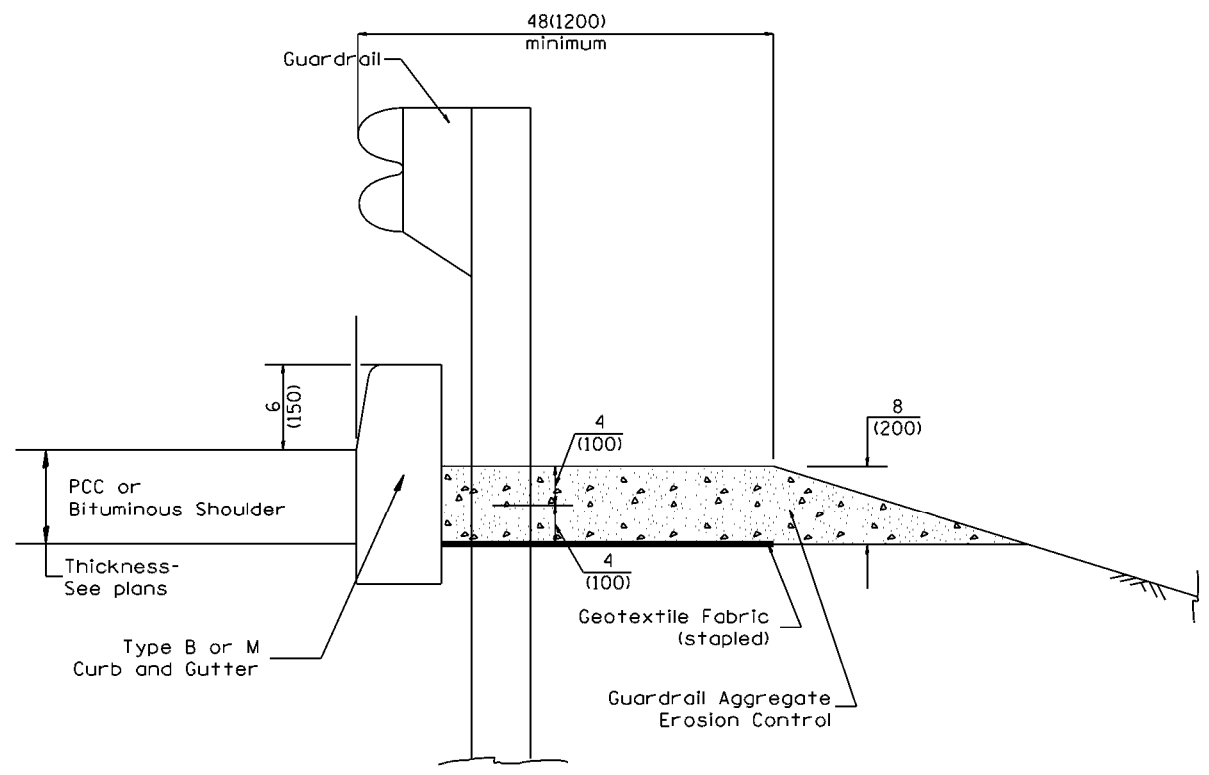
NOT TO SCALE

CADD STD. 440001-D4

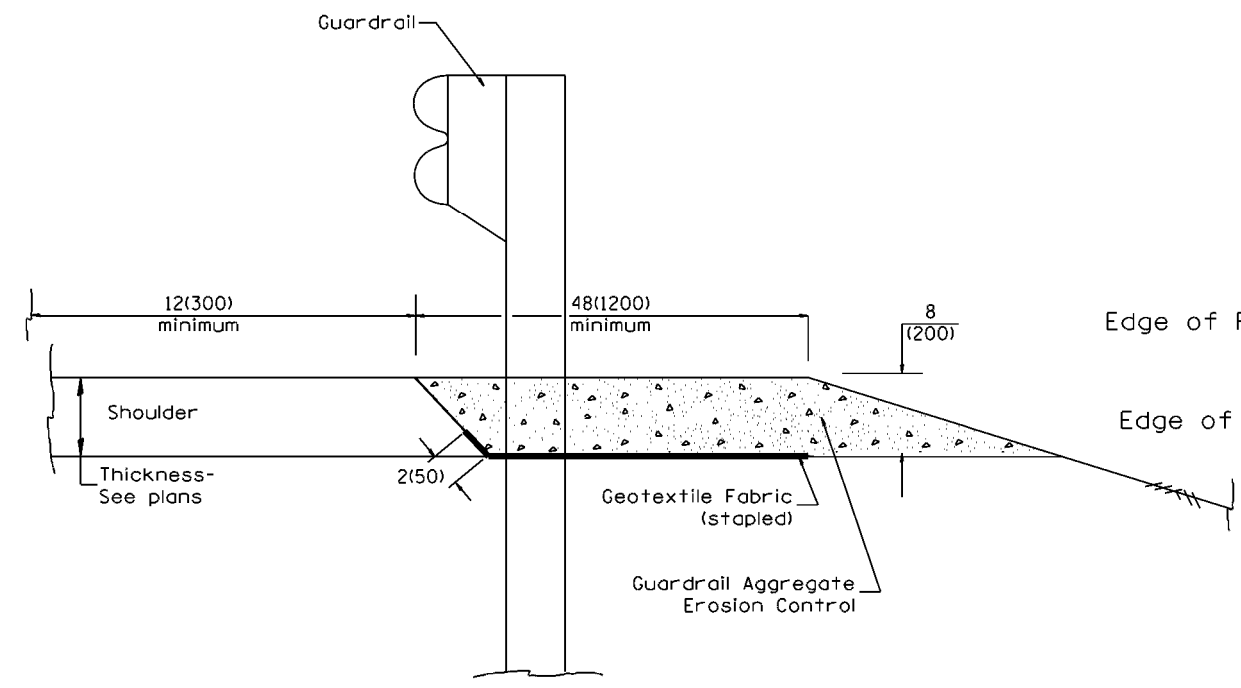
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB) BRR; 130 RS-6	PEORIA	83	74
CONTRACT NO. 68C57				

FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT

CONSIDER USING A "B" CURB PAY ITEM AT GUARDRAIL INSTALLATIONS WHERE GRADES ARE EQUAL TO OR GREATER THAN 1/2" AND AT INLETS. (INCLUDE DISTRICT SPECIAL PROVISION) USE "GUARDRAIL AGGREGATE EROSION CONTROL" AT GUARDRAIL INSTALLATIONS WHERE GRADES ARE LESS THAN 1/2" (INCLUDE DISTRICT SPECIAL PROVISION). INCLUDE STATE STANDARD 610001, IF APPLICABLE. INCLUDE THE FOLLOWING DISTRICT CADD STANDARDS AS NEEDED: SLOPE DRAINS FOR EXPOSED PIPES; SLOPE DRAINS FOR BURIED PIPES; SEEPAGE COLLARS FOR BURIED PIPES SEEPAGE COLLARS FOR EXPOSED PIPES; CONCRETE THRUST BLOCKS AND PIPE ELBOW. INCLUDE DISTRICT SPECIAL PROVISION: "AGGREGATE QUALITY" FOR PROJECTS LOCATED IN THE WESTERN AREA OF THE DISTRICT - APPROX. DIVIDING LINE IS IL 97. DELETE DESIGNER NOTES WHEN INSERTING INTO PLAN FILES. OPERATIONS PREFERS USE OF PIPE OUTLETTING ONTO FORESLOPE WITH RIPRAP. USE NON-METALLIC PIPE WHEN POSSIBLE BECAUSE OF FUTURE CORROSION ISSUES. IF NO OTHER SEEDING IS PAID FOR ON THE CONTRACT, USE DISTRICT SPECIAL PROVISION FOR SEEDING, MINOR AREAS.



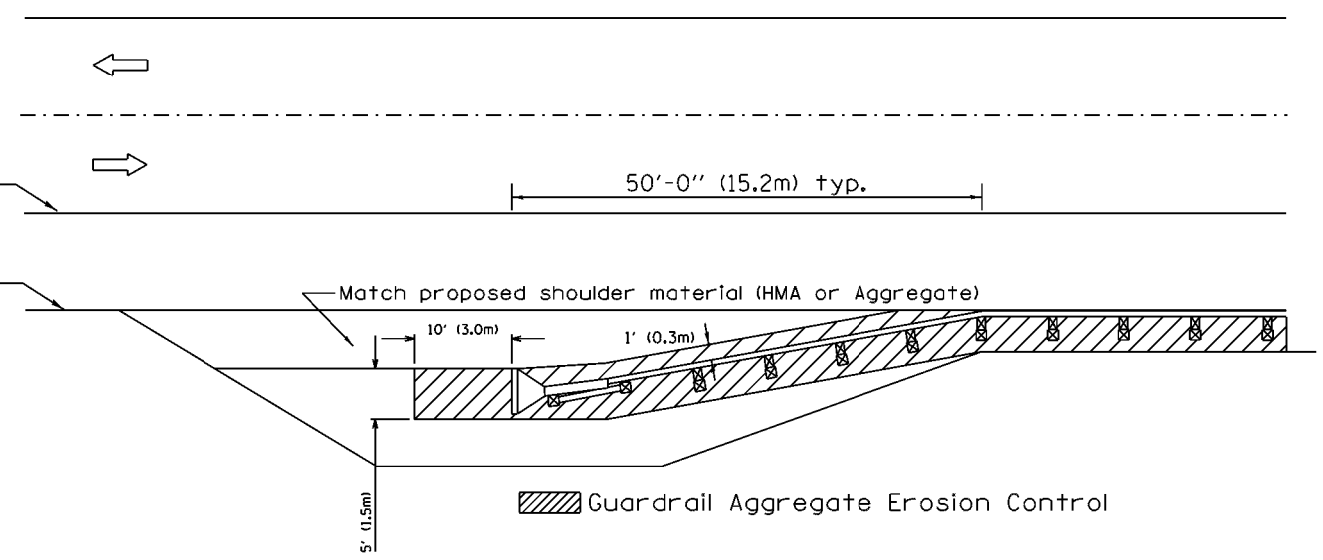
TYPICAL SECTION WITH EROSION CONTROL CURB



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.

01-01-97	RENUM. C-22.01, NEW REVISION BOX	T.P.	03-07-11	ADDED DETAIL SHOWING PLAN VIEW	R.D.
03-01-97	CORRECT STD. NUMBERS IN NOTES PG. 2	J.A.	08-10-12	REVISED CURB "B" AND AGGREGATE	R.D.
11-03-00	CORRECTION TO NOTES	M.A.	07-15-15	ADDRESSED SHOULDER INLET CURB	R.D.
10-16-06	REVISED TO 2007 SPEC.	M.A.	01-26-17	REVISED	R.D.

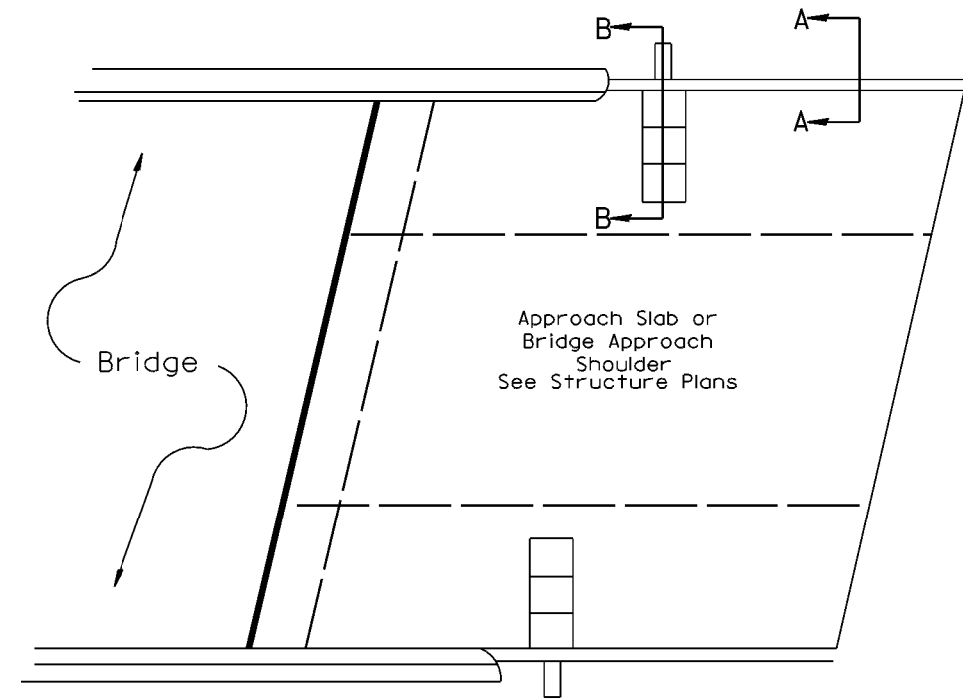
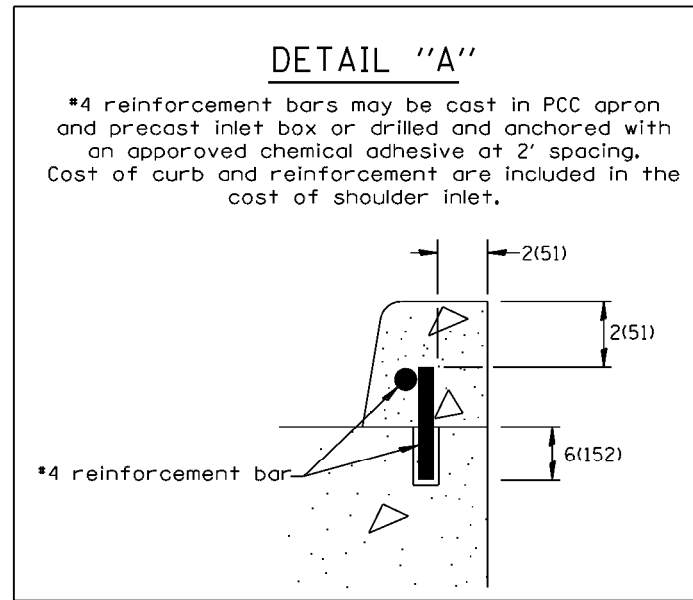
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS

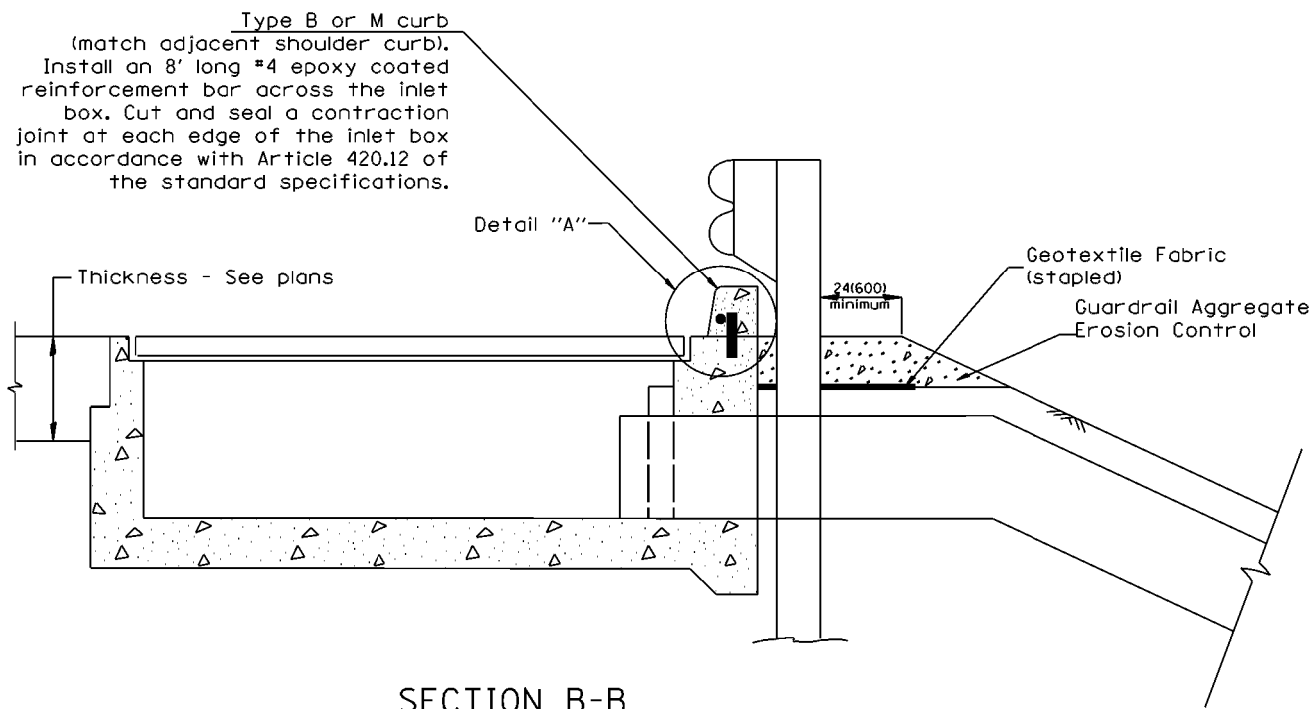
SHT. 1 OF 2
CADD STD. 630101-D4

NOT TO SCALE

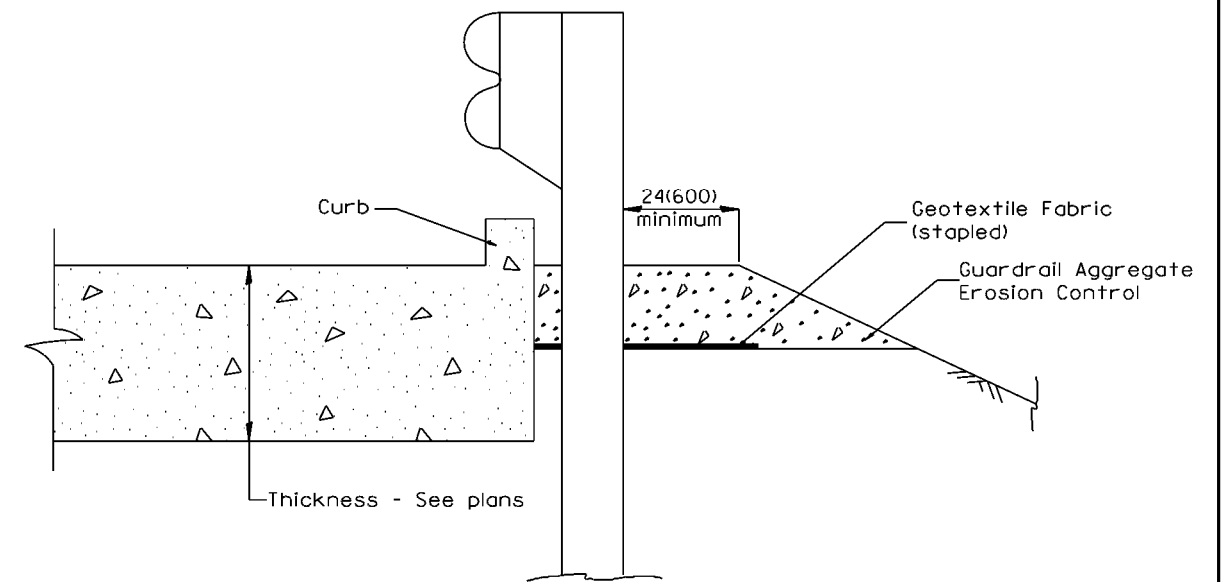
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB) BRR; 130 RS-6	PEORIA	83	75
			CONTRACT NO. 68C57	
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				



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.

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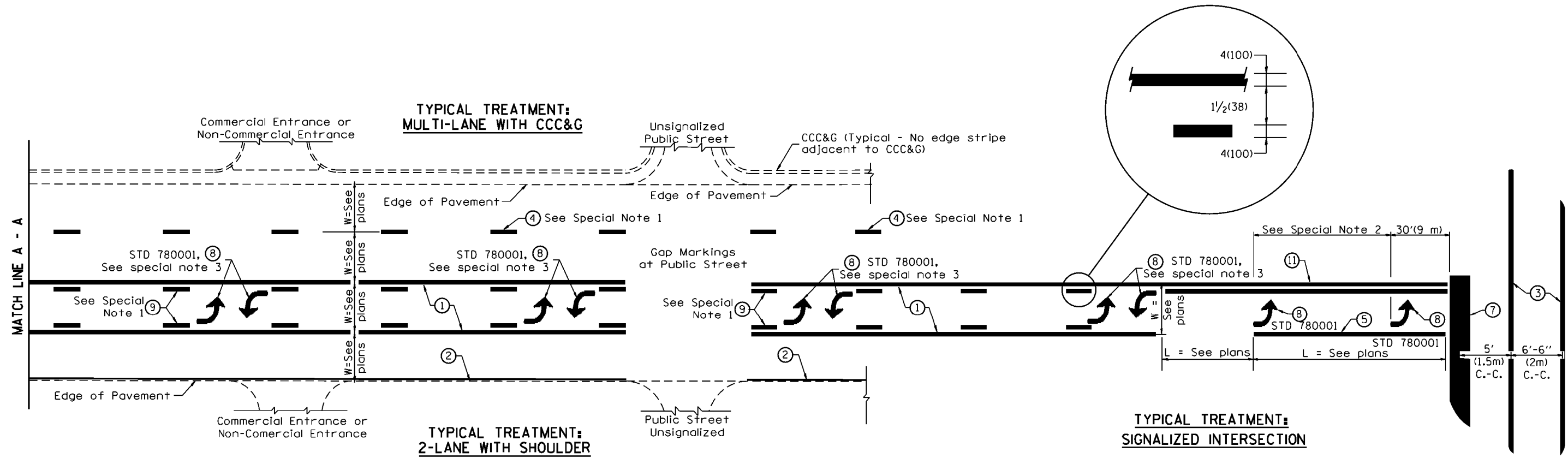
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS

NOT TO SCALE

SHT. 2 OF 2
CADD STD. 630101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB) BRR; 130 RS-6	PEORIA	83	76
CONTRACT NO. 68C57				
FED. ROAD DIST. NO. 4 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'-5" (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)
- 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

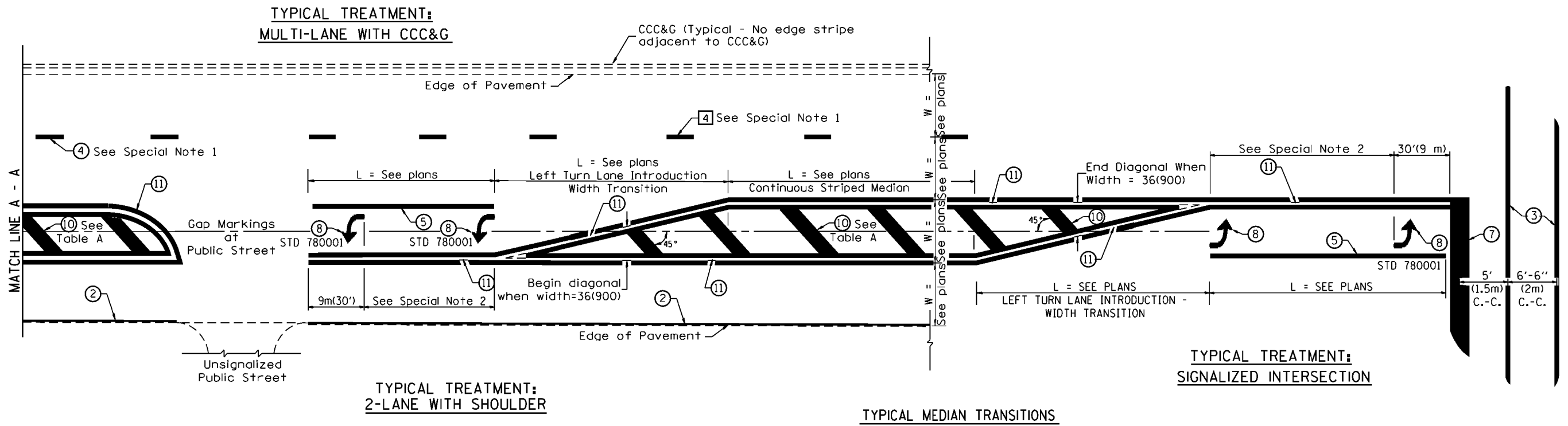
1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.
3. Refer to Article 780.13 for letter, number and symbol areas (sq. ft.)
4. Areas are grooved 1" beyond 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)

DESIGNER NOTES: 1. Include State Standard 780001 (Typical 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. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.	2/29/16	ADDED GROOVING AREAS	R.D.			74	(72-3HB) BRR; 130 RS-6	PEORIA	83	77	
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.						SHT. 1 OF 2 CADD STD. 780001-D4					
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.						CONTRACT NO. 68C57					

NOT TO SCALE

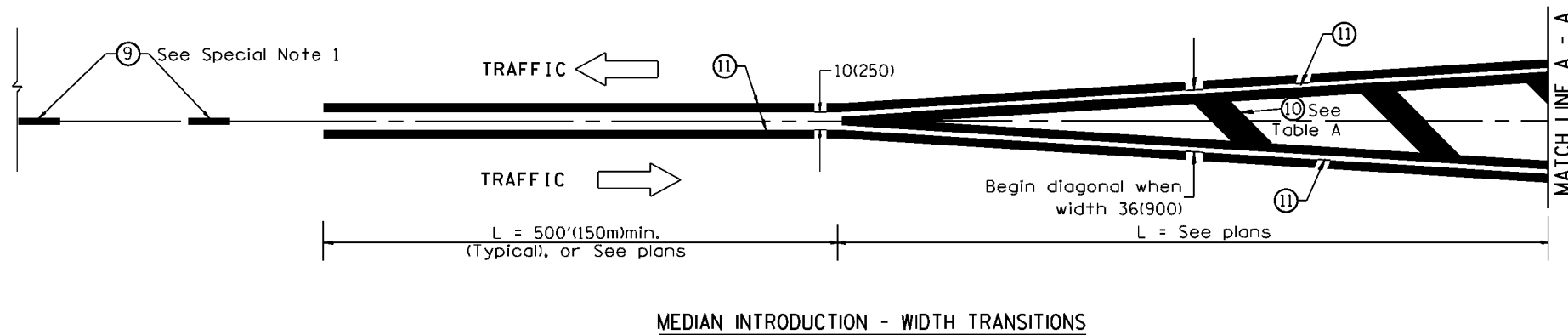
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT



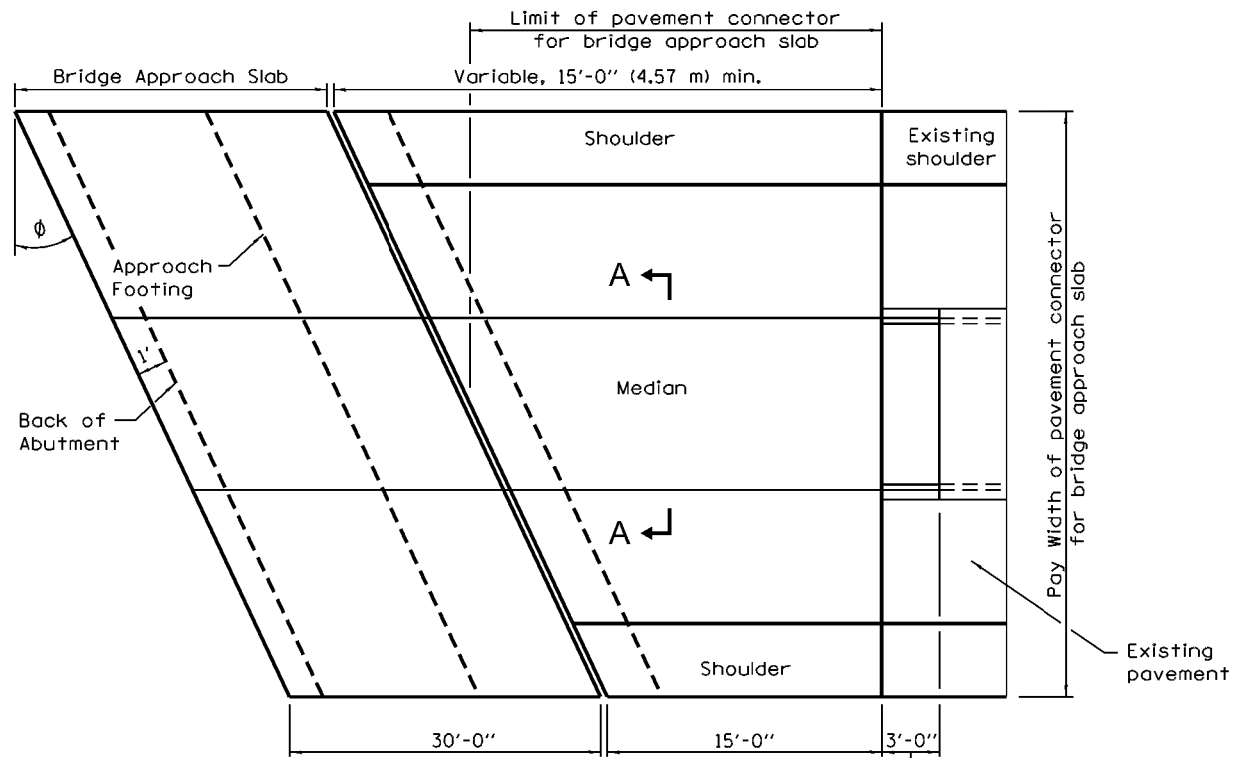
FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A
RECOMMENDED SPACING BETWEEN DIAGONAL LINES

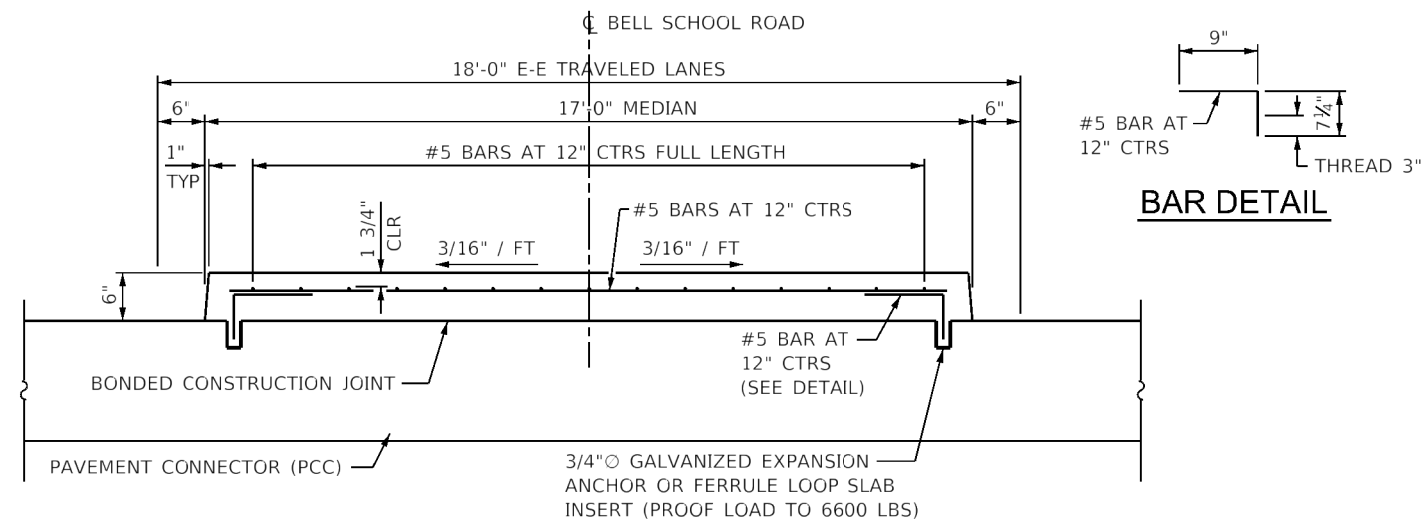
SPEED LIMIT RANGE	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)	
	CONTINUOUS	
Less Than 30 mph (50 km/h)	50' (15m)	15' (5m)
30 - 45 mph (50 - 70 km/h)	75' (23m)	20' (6m)
Over 45 mph (70 km/h)	150' (46m)	30' (9m)



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



Remove 3' of existing median and B-6.12 C&G and replace after pavement connector has been constructed



SECTION A-A

- NOTE: 1. FOR ADDITIONAL DETAILS SEE PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH STANDARD 420401.
 2. MEDIAN INCLUDED IN COST OF PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB.

P:\Civil\DOT_DIST\Bell_School_Road_Phase_II_PTB...CAD_Sheets\468C57-shd-details.dgn

The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 121 North 15th Street
 Mankato, IL 61938
 Phone: 212.255.3177
 License No. 184-002401
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME	Sta37	DESIGNED	-	REVISED	-
DRAWN	SAE	CHECKED	MJS	REVISED	-
DATE	MAY 29, 2019	REVISIONS			

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY MEDIAN DETAIL
 BELL SCHOOL ROAD OVER I-74**

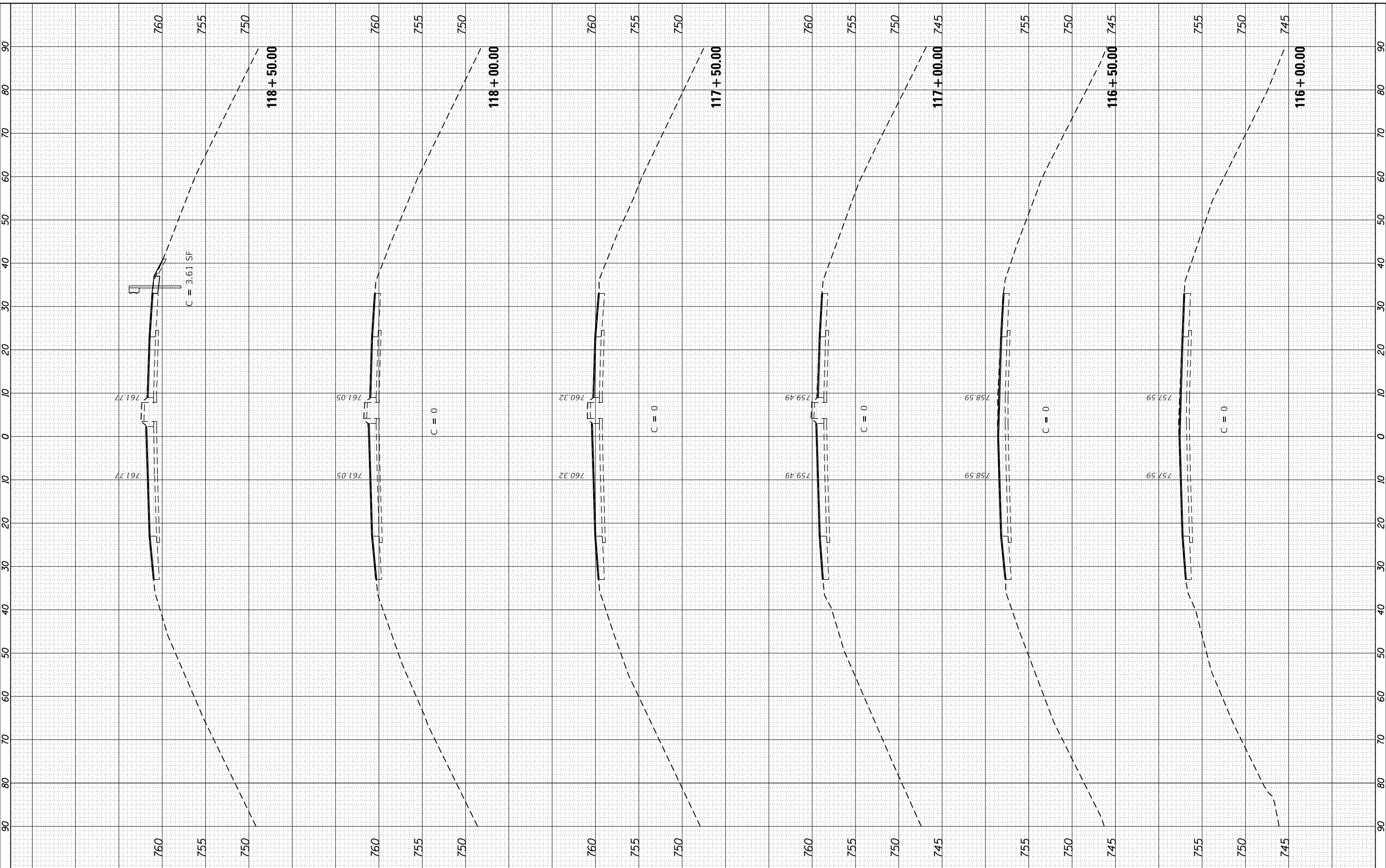
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB) BRR, 130 RS-6	PEORIA	83	79
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Defn.rvt
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USER NAME = wallenfangj	DESIGNED -	REVISD -
	DRAWN - SAE	REVISD -
PLOT SCALE = 20.0000 ' / in.	CHECKED - MJS	REVISD -
PLOT DATE = 6/28/2019	DATE - MAY 29, 20	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

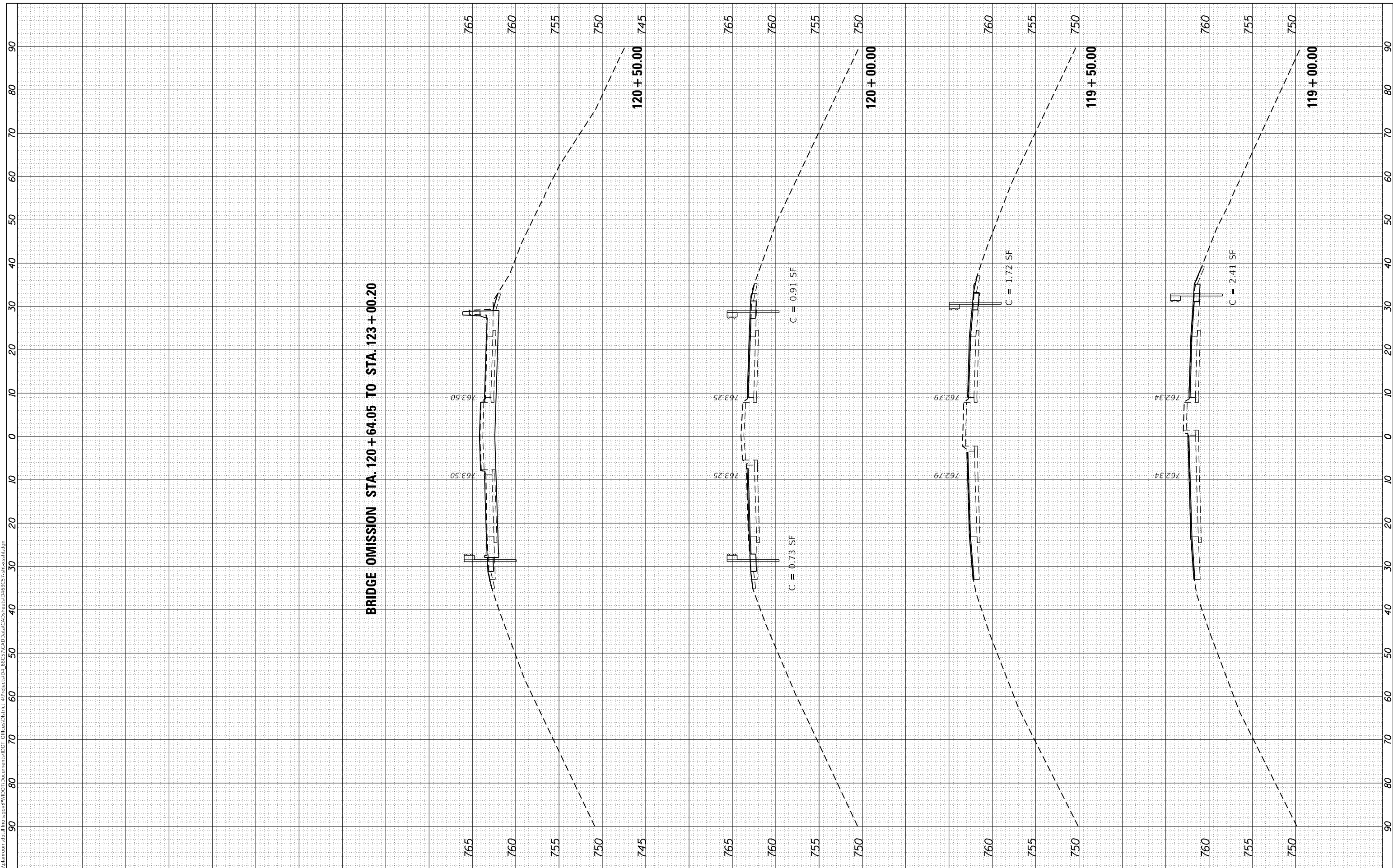
CROSS SECTIONS	
BELL SCHOOL ROAD OVER I-74	
SCALE: 20.0000 ' / in.	SHEET OF SHEETS
STA. 116+00.00	TO STA. 118+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB) BRR; 130 RS-6	PEORIA	83	80
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				

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

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

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BRIDGE OMISSION STA. 120 + 64.05 TO STA. 123 + 00.20

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 BELL SCHOOL ROAD OVER I-74**

USER NAME = wallenfangt	DESIGNED -	REVISIONS
	DRAWN - SAE	REVISIONS
PLOT SCALE = 20.0000' / in.	CHECKED - MJS	REVISIONS
PLOT DATE = 6/28/2019	DATE - MAY 29, 20	REVISIONS

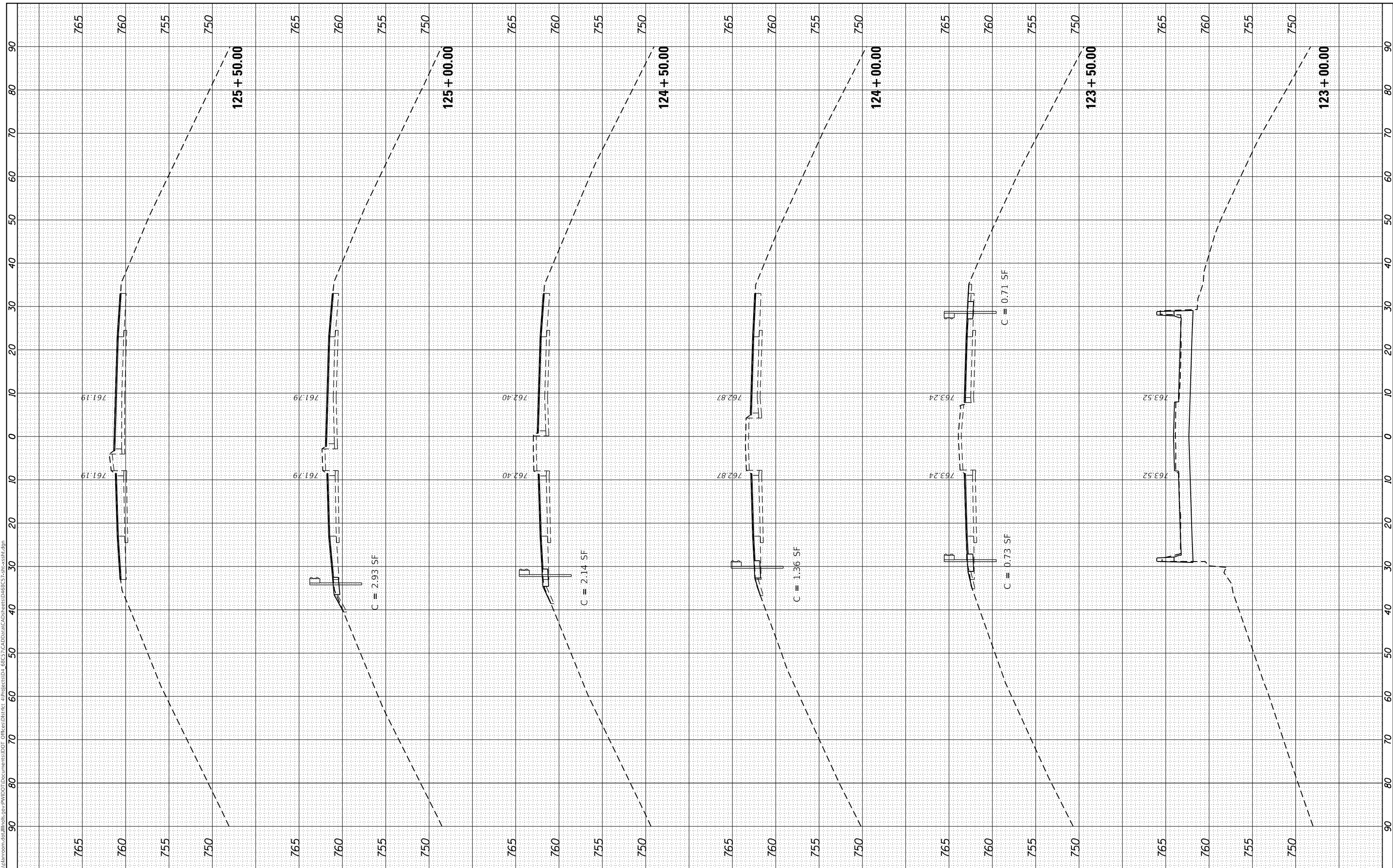
SCALE: 20.0000' / in. SHEET OF SHEETS STA. 119+00.00 TO STA. 120+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB) BRR; 130 RS-6	PEORIA	83	81
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

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USER NAME = wallerfangt	DESIGNED -	REVISD -
PLOT SCALE = 20.0000 ' / in.	DRAWN - SAE	REVISD -
PLOT DATE = 6/28/2019	CHECKED - MJS	REVISD -
	DATE - MAY 29, 20	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
BELL SCHOOL ROAD OVER I-74**

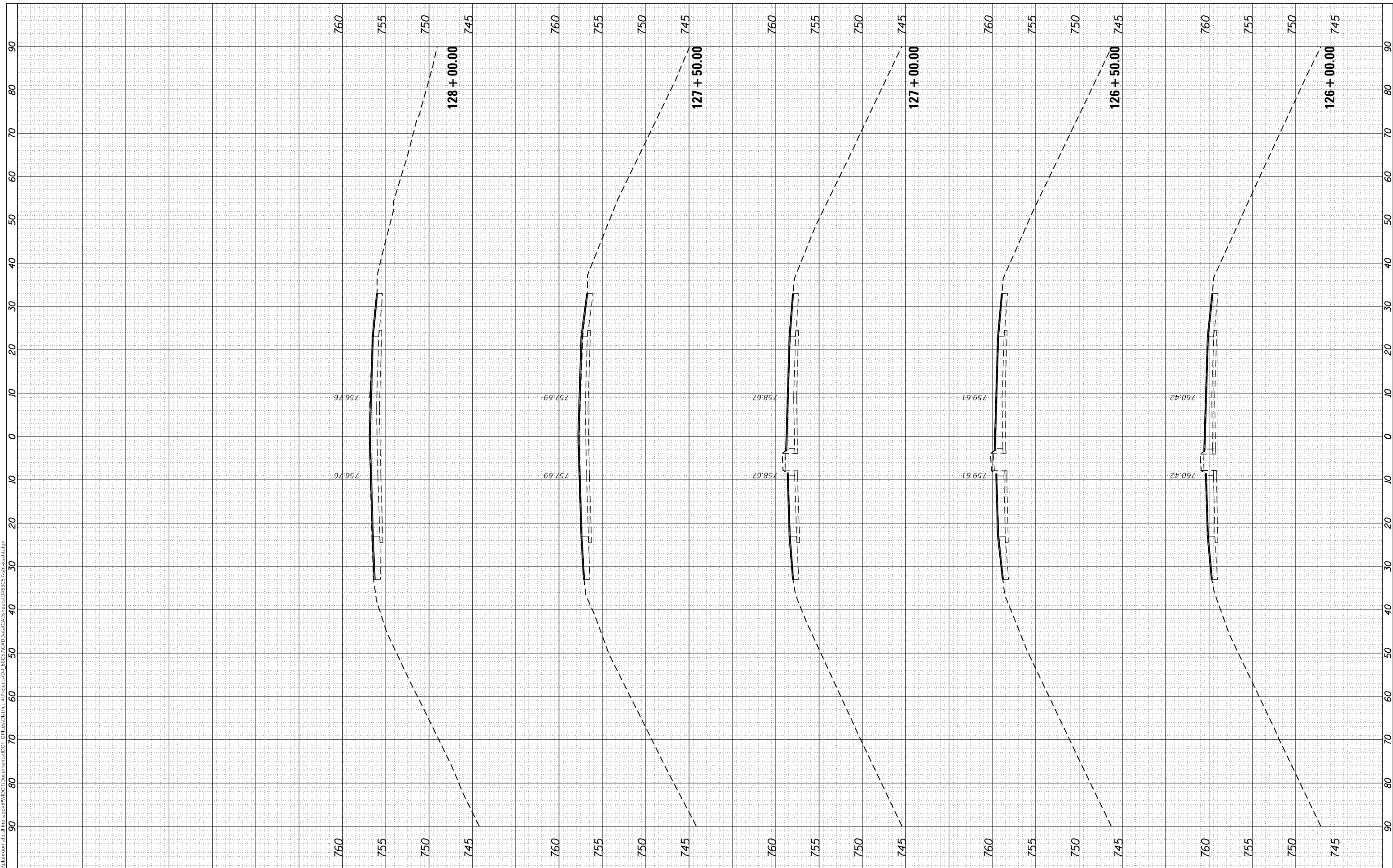
SCALE: 20.0000 ' / in. SHEET OF SHEETS STA. 123+00.00 TO STA. 125+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB) BRR; 130 RS-6	PEORIA	83	82
CONTRACT NO. 68CS7				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

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USER NAME = wallenfangt	DESIGNED -	REVISIED -
	DRAWN - SAE	REVISIED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - MJS	REVISIED -
PLOT DATE = 6/28/2019	DATE - MAY 29, 20	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS	
BELL SCHOOL ROAD OVER I-74	
SCALE: 20.0000 ' / in. SHEET	OF SHEETS
STA. 126+00.00	TO STA. 128+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-3HB) BRR; 130 RS-6	PEORIA	83	83
CONTRACT NO. 68C57				
ILLINOIS FED. AID PROJECT				