

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

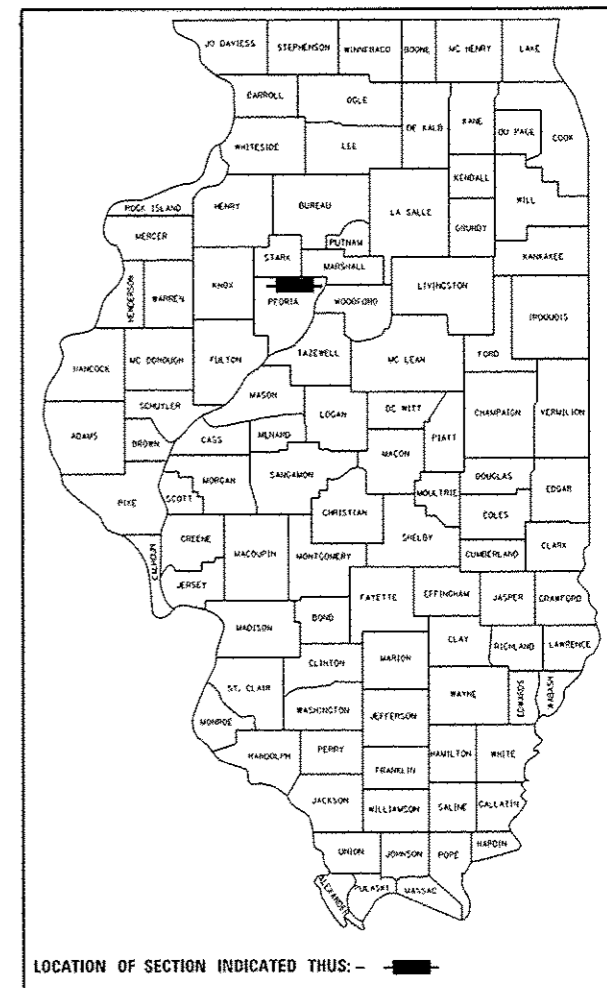
FAP ROUTE 661 (IL 90 /IL 91)  
SECTION (8B)BR-1  
PROJECT ACF-0661(009)  
BRIDGE REPLACEMENT  
PEORIA COUNTY  
C-94-206-06

IL ROUTE 90 /91 OVER PRINCE CREEK  
REPLACEMENT OF EXISTING BRIDGE

R 7 E

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	1
		ILLINOIS	CONTRACT NO. 68668	

D-94-137-06



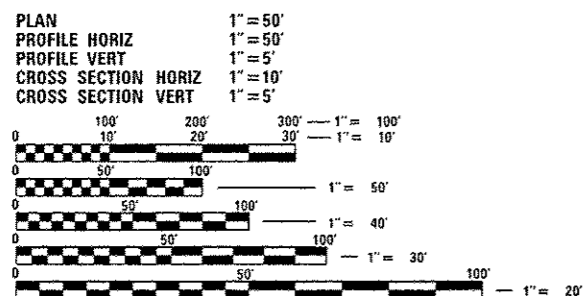
**INDEX OF SHEETS**

SHEET NO.	ITEM
1	COVER SHEET
2-3	GENERAL NOTES, STANDARDS, AND COMMITMENTS
4	STATUS OF UTILITIES
5-10	SUMMARY OF QUANTITIES
11-12	TYPICAL SECTIONS
13-14	SCHEDULES OF QUANTITIES
15	ALIGNMENT TIES AND BENCHMARKS
16	PLAN AND PROFILE SHEETS
17-20	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
21-22	EROSION CONTROL AND PAVEMENT MARKING SHEET
23	REMOVAL PLAN SHEET
24-51	STRUCTURE PLANS AND STRUCTURE BORINGS
52-64	DISTRICT 4 STANDARDS
65	PAVEMENT TRANSITION DETAIL
66-71	CROSS SECTIONS

**DESIGN DESIGNATION**

MINOR ARTERIAL (RURAL) (072-0247)  
CURRENT ADT: 3,450 (2013)  
DESIGN ADT: 4,210 (2033)  
DESIGN SPEED: 55 MPH  
POSTED SPEED: 55 MPH  
MU = 4.9%, SU = 4.9%

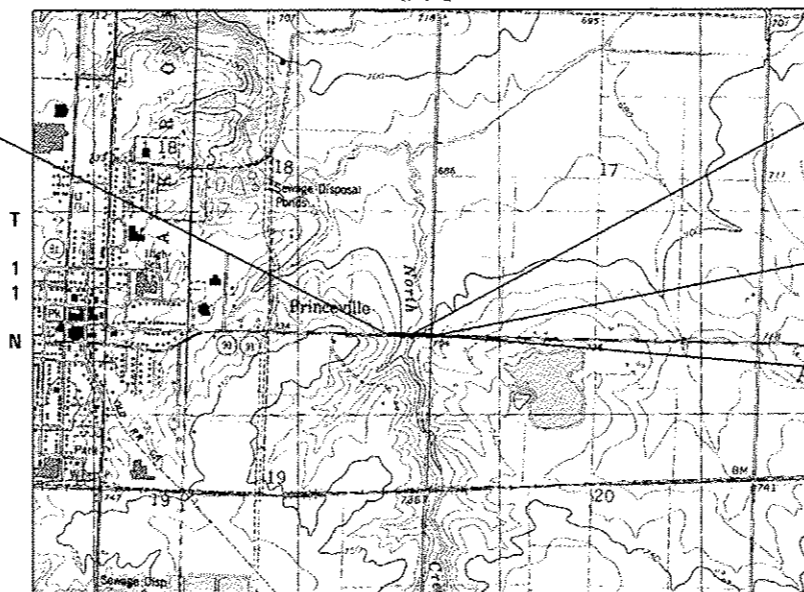
**SCALE IN FEET**



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

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

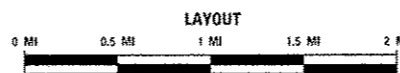
END SECTION  
STA. 542 + 00



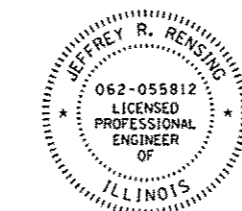
STA. 535 + 30.17 TO  
STA. 535 + 93.83  
BRIDGE REPLACEMENT

PROJECT INCLUDES SINGLE SPAN  
STRUCTURE, CONSISTING OF A REINFORCED  
CONCRETE DECK ON PPC I-BEAMS  
FOUNDED ON INTEGRAL ABUTMENTS  
EXIST. S. N. 072-0020 PROP. S. N. 072-0247

BEGIN SECTION  
STA. 531 + 50



GROSS LENGTH = 1,050 FT. = 0.20 MILE  
NET LENGTH = 898 FT. = 0.17 MILE



JEFFREY R. RENSING, P.E.  
12/5/16  
ILL. P.E. NO. 062-055812  
EXPIRES: 11/30/2017

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED 12/7 2016  
K.A. Galt REGIONAL ENGINEER

Jan 27 2017  
Maurice M. Adair, P.E. ENGINEER OF DESIGN AND ENVIRONMENT

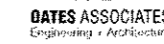
Director of Program Development

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ILLINOIS DESIGN FIRM LICENSE NO: 184.001115



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PROJECT ENGINEER CHRISTOPHER MAUSHARD 309-671-3453  
PROJECT MANAGER MICHAEL HUDELSON 309-671-3466  
CONTRACT NO. 68668  
CATALOG NO. 033412-00D

**GENERAL NOTES**

1. AVAILABILITY OF ELECTRONIC FILES

MICRO STATION AND GEOPAK FILES OF THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR. IF THERE IS A CONFLICT BETWEEN THE ELECTRONIC FILES AND THE PRINTED CONTRACT PLANS AND DOCUMENTS, THE PRINTED CONTRACT PLANS AND DOCUMENTS SHALL TAKE PRECEDENCE OVER THE ELECTRONIC FILES. THE CONTRACTOR SHALL ACCEPT ALL RISK ASSOCIATED WITH USING THE ELECTRONIC FILES AND SHALL HOLD THE DEPARTMENT HARMLESS FOR ANY ERRORS OR OMISSIONS IN THE ELECTRONIC FILES AND THE DATA CONTAINED THEREIN. ERRORS OR DELAYS RESULTING FROM THE USE OF THE ELECTRONIC FILES BY THE CONTRACTOR SHALL NOT RESULT IN AN EXTENSION OF TIME FOR ANY INTERIM OR FINAL COMPLETION DATE OR SHALL NOT BE CONSIDERED CAUSE FOR ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOT USE, SHARE, OR DISTRIBUTE THESE ELECTRONIC FILES EXCEPT FOR THE PURPOSE OF CONSTRUCTING THIS CONTRACT. ANY CLAIMS BY THIRD PARTIES DUE TO USE OR ERRORS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THIS DISCLAIMER WITH THE TRANSFER OF THESE ELECTRONIC FILES TO ANY OTHER PARTIES AND SHALL INCLUDE APPROPRIATE LANGUAGE BINDING THEM TO SIMILAR RESPONSIBILITIES.

THE GEOTECHNICAL REPORT FOR THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR UPON REQUEST.

2. UTILITIES - LOCATIONS / INFORMATION ON PLANS

THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN - ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

3. TREE REMOVAL - UTILITY RELOCATION

TREE REMOVAL MAY BE NECESSARY PRIOR TO UTILITY COMPANIES BEING ABLE TO RELOCATE THEIR FACILITIES OUTSIDE THE CONSTRUCTION LIMITS. THE CONTRACTOR SHOULD COORDINATE ANY CONTRACT TREE REMOVAL ACTIVITIES WITH THE UTILITY COMPANIES TO ELIMINATE CONFLICTS AND POTENTIAL DELAYS CAUSED BY UTILITY TREE REMOVAL ACTIVITIES OR INCOMPLETE UTILITY RELOCATIONS.

4. PLAN ELEVATIONS - U. S. G. S. MEAN SEA LEVEL DATUM

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

5. PROPERTY OWNER ACCESS REQUIREMENTS

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.

6. TEMPORARY MATERIAL REQUIREMENTS - UTILITY AND DRIVEWAY CROSSINGS

AGGREGATE SURFACE COURSE MAY BE USED FOR ALL DRIVEWAY CROSSINGS IN ACCORDANCE WITH ARTICLE 107.09.

7. CONSTRUCTION LIMITS

THE CONTRACTOR SHALL CONFINE ALL OPERATIONS TO THE CONSTRUCTION LIMITS LINE SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTORS EXPENSE UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE RESIDENT ENGINEER.

8. TREE REMOVAL

THE RESIDENT ENGINEER SHOULD BE CONTACTED AND PRIOR APPROVAL OBTAINED FOR ANY TREE REMOVAL BEYOND THE LIMITS/LOCATIONS INCLUDED IN THE PLANS.

9. CROSSING STRUCTURES WITH EQUIPMENT

THE FOLLOWING STRUCTURE S.N. 072-0020 MAY BE CROSSED WITH AN UNLOADED MATERIAL TRANSFER DEVICE. ANY STRUCTURES NOT LISTED ABOVE SHALL BE VERIFIED BY THE RESIDENT PRIOR TO BEGINNING WORK.

10. 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.

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS WILL NEED TO 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.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (ENVIRONMENTAL SURVEY REQUEST)
- 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 - 04 P10101

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.

11. AGGREGATE SURFACE COURSE, TYPE B

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

12. PAVEMENT STATIONING 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 (20MM) 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 (METRIC) PAVEMENT STATIONS SHALL USE THIS FORMAT "XXX (XX+X00)" WHERE X REPRESENTS THE PAVEMENT STATION

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

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USER NAME: matt.fields	DESIGNED -	REVISED -
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PLOT DATE: 12/5/2016	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, STANDARDS, & COMMITMENTS  
IL 90 /91 OVER PRINCE CREEK TRIBUTARY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(88)BR-1	PEORIA	71	2
CONTRACT NO. 68668				

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

13. HOT-MIX ASPHALT MIXTURE REQUIREMENTS

**MIXTURES TABLE**

MIXTURE USE(S)	SURFACE COURSE	VARIABLE DEPTH BINDER COURSE	HMA SHOULDER (SURFACE LIFT)	HMA SHOULDER (LOWER LIFTS)	BASE COURSE WIDENING
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N=50	4.0% @ N=50	4.0% @ N=30	4.0% @ N=30	4.0% @ N=50
MIXTURE COMPOSITION	IL 9.5	IL 19.0	IL 9.5L	IL 19.0L	IL 19.0
FRICTION AGGREGATE	MIXTURE D (DOLOMITE ONLY)	N.A.	MIXTURE C	N.A.	N.A.
QUALITY MANAGEMENT PROGRAM	QCOA	QCOA	QCOA	QCOA	QCOA

- NOTES: 1. INDIVIDUAL MINIMUM LIFT THICKNESS SHALL BE AS PER ART. 406.06 (d) AND MAXIMUM LIFT THICKNESS SHALL BE NO MORE THAN 6 TIMES NOMINAL MAXIMUM AGGREGATE  
 2. FOR IL 12.5 MIXES, CA 14 WILL BE ALLOWED IN CONJUNCTION WITH CA16

14. BUTT JOINT CUTTING TIME RESTRICTION

BUTT JOINTS SHALL NOT BE MILLED MORE THAN THREE (3) DAYS PRIOR TO PLACEMENT OF HMA SURFACE COURSE

15. 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. ALL SURFACE COURSE PLACEMENT SHOULD BE DONE AFTER STAGE 2 AND AFTER ALL BARRIER WALLS HAVE BEEN REMOVED.

16. SAW CUT - 18" (450 MM) SHOULDER REMOVAL - IN-PLACE WHEEL SAW GRINDING PERMITTED

A FULL-DEPTH SAW CUT SHALL BE REQUIRED AT THE JOINT BETWEEN THE PAVEMENT THAT IS TO BE LEFT IN PLACE AND THE EXISTING SHOULDER THAT IS TO BE REMOVED. THE CONTRACTOR MAY HAVE THE OPTION OF USING A WHEEL SAW TO GRIND UP THE EXISTING SHOULDER AND LEAVE THE FINELY GROUND PIECES ON SITE UNDER THE NEW SHOULDER AND ON THE FORE SLOPE, WITH THE APPROVAL OF THE ENGINEER, MAXIMUM SIZE OF PIECES SHALL BE NO MORE THAN 3" (75 MM). LARGER PIECES SHALL BE PICKED UP/REMOVED FROM THE JOB SITE. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR VARIATIONS IN ASSUMED THICKNESS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE REMOVAL ITEMS.

17. ORDERING LENGTH CONFIRMATION - DRAINAGE ITEMS

THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IN REGARD TO THE EXACT LENGTH OF THE BOX/PIPE CULVERTS, STORM SEWERS, AND/OR PIPE DRAINS REQUIRED PRIOR TO ORDERING THESE ITEMS.

18. SIGNING

SIGN LOCATIONS MAY VARY FROM THE STATIONS SHOWN ON THE PLANS IN ACCORDANCE WITH DIRECTIONS FROM THE ENGINEER AT THE TIME OF CONSTRUCTION. SIGN LOCATIONS MAY BE ADJUSTED IN THE FIELD TO AVOID ANY FOUND UTILITIES.

ALL WOOD POST LOCATIONS SHALL BE VERIFIED WITH THE BUREAU OF OPERATIONS, TRAFFIC SECTION, BEFORE INSTALLATION.

**HIGHWAY STANDARDS**

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 420401-12 PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
- 482011-03 HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
- 515001-03 NAME PLATE FOR BRIDGES
- 601101-02 CONCRETE HEADWALL FOR PIPE UNDERDRAINS
- 630001-11 STEEL PLATE BEAM GUARDRAIL
- 630301-07 SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
- 631031-15 TRAFFIC BARRIER TERMINAL, TYPE 6
- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
- 701006-05 OFF-RD OPERATIONS, 2L, 2W 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701011-04 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701306-03 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
- 701316-11 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR, FOR SPEEDS > 45 MPH
- 701321-16 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701901-06 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 725001-01 OBJECT AND TERMINAL MARKERS
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 782006 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

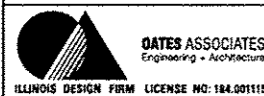
**DISTRICT 4 STANDARDS**

- 205001-04 SLOPE STEPS DETAIL
- 406101-04 BUTT JOINTS
- 406301-04 RURAL ENTRANCES FOR "3R" PROJECTS
- 406401-04 RURAL SIDEROADS FOR "3R" PROJECTS
- 440001-04 HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
- 630101-04 GUARDRAIL EROSION CONTROL TREATMENTS
- 667101-04 PERMANENT SURVEY TIE & PERMANENT SURVEY MARKERS TY. I - TY. II
- 780001-04 TYPICAL PAVEMENT MARKINGS

**COMMITMENTS**

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

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	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, STANDARDS, & COMMITMENTS  
IL 90 /91 OVER PRINCE CREEK TRIBUTARY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	18B/BR-1	PEORIA	71	3
CONTRACT NO. 68668				
SCALE:	SHEET 2 OF 2 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT	

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NO UTILITY ADJUSTMENTS  
WITHIN PROJECT LIMITS

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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STATUS OF UTILITIES  
IL 90 / 91 OVER PRINCE CREEK**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(88)BR-1	PEORIA	71	4
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				

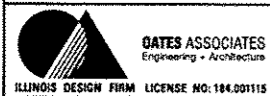
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

80/20 FED/ST

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				0004	0011
				ROADWAY	STRUCTURAL
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNITS	36	36	
20200100	EARTH EXCAVATION	CU YD	660	660	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	2,725	2,725	
25000210	SEEDING, CLASS 2A	ACRE	0.75	0.75	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	68	68	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	68	68	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	68	68	
25100630	EROSION CONTROL BLANKET	SO YD	1,073	1,073	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	300	300	
28000305	TEMPORARY DITCH CHECKS	FOOT	36	36	
28000400	PERIMETER EROSION BARRIER	FOOT	1,594	1,594	
28100705	STONE DUMPED RIPRAP, CLASS A3	SO YD	32	32	
28100709	STONE DUMPED RIPRAP, CLASS A5	SO YD	775		775
28200200	FILTER FABRIC	SO YD	807	32	775

14

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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**  
**IL 90 /91 OVER PRINCE CREEK**

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	5
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				

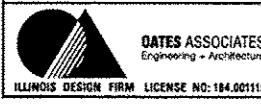
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80120 FED/ST

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				0004	0011
				ROADWAY	STRUCTURAL
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	270	270	
35650300	BASE COURSE WIDENING, 8"	SQ YD	808	808	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	109	109	
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	5,021	5,021	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	688	688	
40600990	TEMPORARY RAMP	SQ YD	48	48	
40602978	HOT-MIX ASPHALT BINDER COURSE, IL- 9.5, N50	TON	402	402	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	298	298	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	22	22	
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	126	126	
44000100	PAVEMENT REMOVAL	SQ YD	424	424	
44004250	PAVED SHOULDER REMOVAL	SQ YD	237	237	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	271	271	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1

14

FILE MADE: H:\29840\VD 12 - Prince Creek\Microstation\Sheets\029840\02-en-000.dgn



USER NAME = mottfields  
 PLOT SCALE = 100.0000 1/16"  
 PLOT DATE = 11/29/2016

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
IL 90 /91 OVER PRINCE CREEK**

SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(88)BR-1	PEORIA	71	6
CONTRACT NO. 68668				

ILLINOIS FED. AID PROJECT

REV

80/20 FED/ST

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				0004	0011
				ROADWAY	STRUCTURAL
50200100	STRUCTURE EXCAVATION	CU YD	279		279
50300225	CONCRETE STRUCTURES	CU YD	75.0		75.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	117.3		117.3
50300260	BRIDGE DECK GROOVING	SQ YD	463		463
50300300	PROTECTIVE COAT	SQ YD	571		571
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	113.4		113.4
50400905	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 42 IN.	FOOT	366.0		366.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	71,070		71,070
50800515	BAR SPLICERS	EACH	519		519
51201600	FURNISHING STEEL PILES HP12X53	FOOT	405		405
51202305	DRIVING PILES	FOOT	405		405
51203600	TEST PILE STEEL HP12X53	EACH	2		2
51500100	NAME PLATES	EACH	1		1
52200020	TEMPORARY SOIL RETENTION SYSTEM	SO FT	425		425

14

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
IL 90 /91 OVER PRINCE CREEK**

SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	7
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				

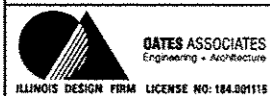
REV

80120 FED/ST

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				0004	0011
				ROADWAY	STRUCTURAL
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	79		79
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	275	275	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	759	759	
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	2	2	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	10	
67000600	ENGINEER'S FIELD LABORATORY	CAL MO	10	10	
67100100	MOBILIZATION	LSUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	LSUM	1	1	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6	

19 \* SPECIALTY ITEMS

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
 IL 90 /91 OVER PRINCE CREEK  
 SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(BB)BR-1	PEORIA	71	8
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				

REV



80/20 FED/ST

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				0004	0011
				ROADWAY	STRUCTURAL
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1,954	1,954	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	1,686	1,686	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	6,825	6,825	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	53	53	
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	3,155	3,155	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	650.0	650.0	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	612.5	612.5	
70500100	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	200	200	
70500665	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2	
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
* 78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	3,413	3,413	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	13	13	

\* SPECIALTY ITEMS

14

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
 IL 90 /91 OVER PRINCE CREEK  
 SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	9
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				

REV

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				0004	0011
				ROADWAY	STRUCTURAL
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	28	28	
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	8	8	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	13	13	
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	545	545	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	2,103	2,103	
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	143		143
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	545	545	
X7050167	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)	EACH	2	2	
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	120	120	
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	18		18
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1	
Z0034105	MATERIAL TRANSFER DEVICE	TON	700	700	
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	170		170
Ø 20076600	TRAINEES	Hour	500	500	
Ø 20076604	TRAINEES-TRAINING PROGRAM GRADUATE	Hour	500	500	

13 \*SPECIALTY ITEMS Ø 0042

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**DATES ASSOCIATES**  
Engineering - Architecture  
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

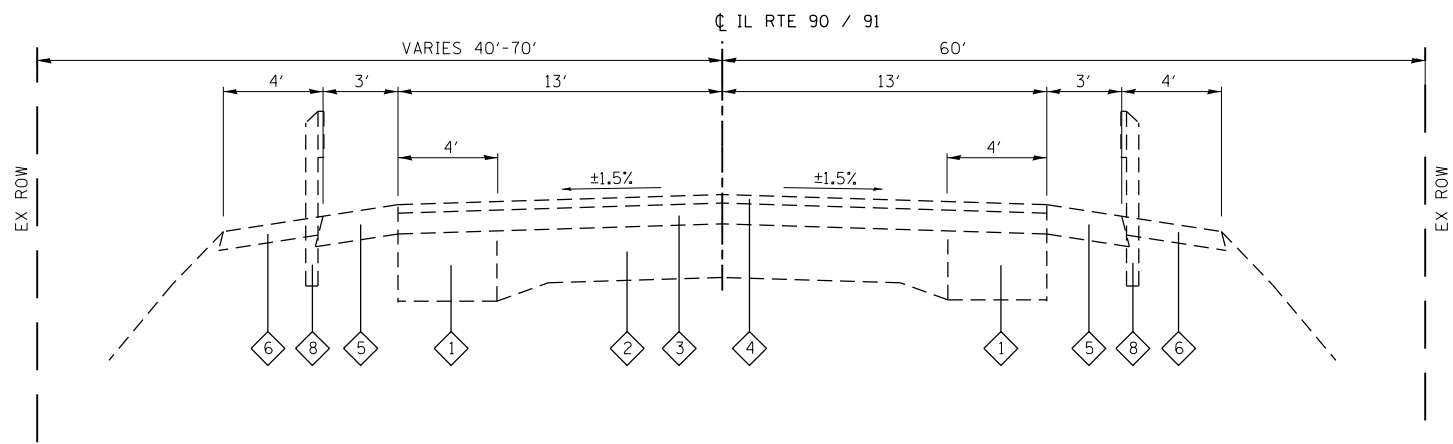
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
IL 90 /91 OVER PRINCE CREEK			
SCALE:	SHEET 6	OF 6 SHEETS	STA. TO STA.

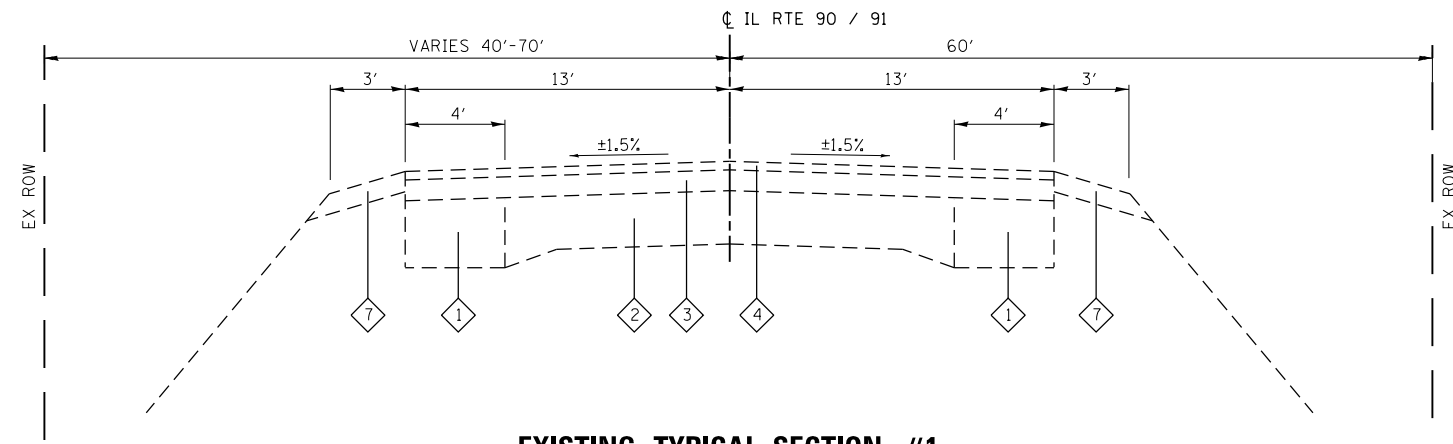
F.A.P. RTE. 661	SECTION (8B)BR-1	COUNTY PEORIA	TOTAL SHEETS 71	SHEET NO. 10
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				

REV



**EXISTING TYPICAL SECTION #2**

STA. 532+93.00 TO STA. 537+68.00 RT  
 STA. 533+62.00 TO STA. 538+46.00 LT  
 BRIDGE OMISSION: STA. 535+46.00 TO STA. 535+78.00



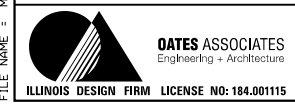
**EXISTING TYPICAL SECTION #1**

STA. 531+50.00 TO STA. 532+93.00 RT  
 STA. 531+50.00 TO STA. 533+62.00 LT  
 STA. 537+68.00 TO STA. 542+00.00 RT  
 STA. 538+46.00 TO STA. 542+00.00 LT

**TYPICAL SECTION LEGEND**

- ① EXISTING BITUMINOUS BASE COURSE WIDENING
- ② EXISTING PCC PAVEMENT
- ③ EXISTING BITUMINOUS OVERLAY
- ④ EXISTING BITUMINOUS SURFACE COURSE
- ⑤ EXISTING ASPHALT SHOULDERS
- ⑥ EXISTING PAVED SHOULDERS
- ⑦ EXISTING AGGREGATE SHOULDERS
- ⑧ EXISTING GUARDRAIL
- ⑨ PROPOSED HMA SURFACE COURSE, MIX "D", N50, 2"
- ⑩ PROPOSED HMA SURFACE REMOVAL, VARIABLE DEPTH
- ⑪ PROPOSED POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)
- ⑫ PROPOSED HMA BINDER COURSE, VARIABLE DEPTH
- ⑬ PROPOSED BASE COURSE WIDENING, 8"
- ⑭ PROPOSED HMA SHOULDERS, 8"
- ⑮ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B 4"
- ⑯ PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL, 8"
- ⑰ PROPOSED TOPSOIL FURNISH AND PLACE, 4"
- ⑱ PROPOSED EMBANKMENT
- ⑲ PROPOSED EPOXY PAVEMENT MARKING - LINE, 4"

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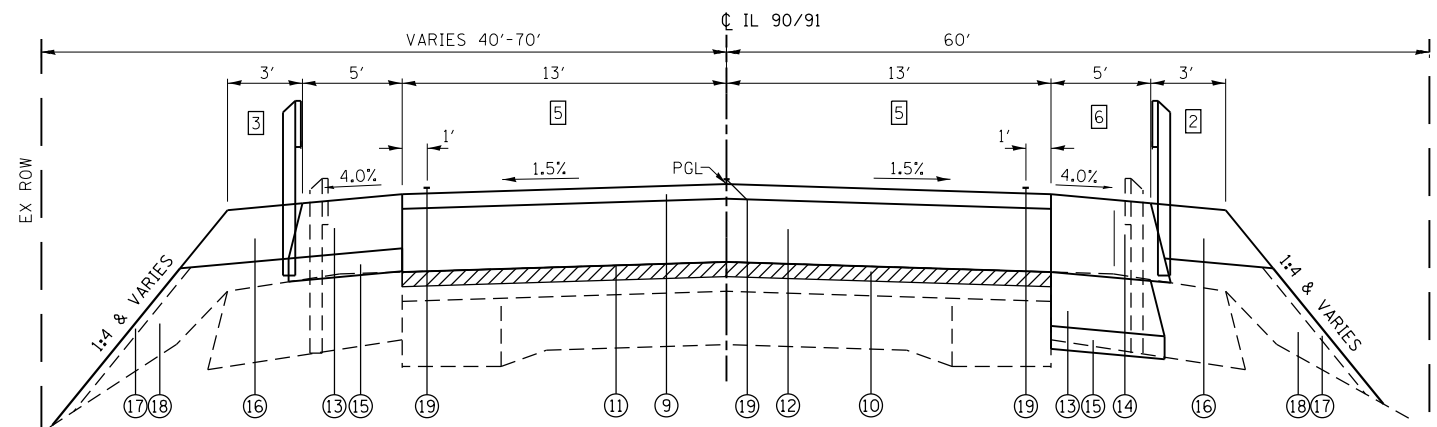


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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

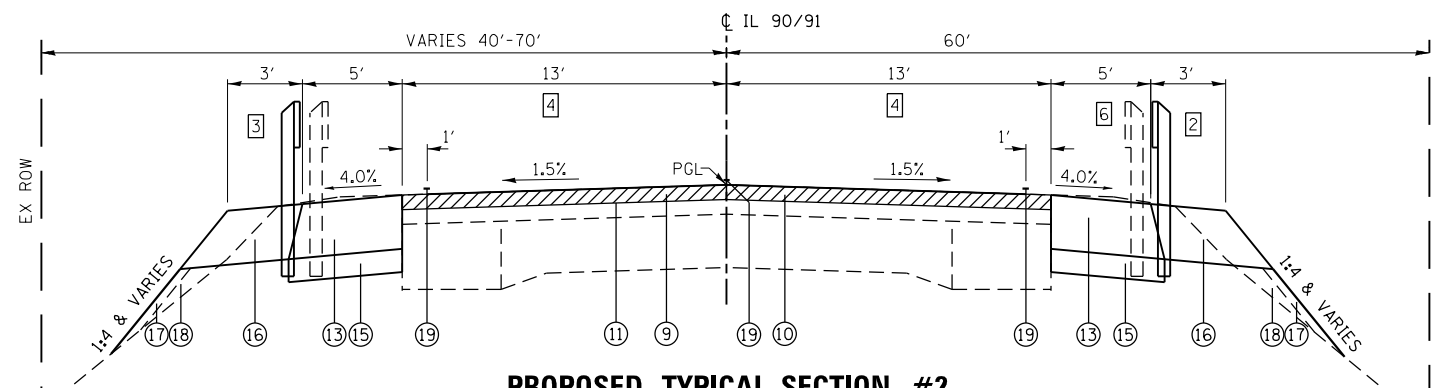
<b>TYPICAL SECTIONS</b>	
<b>IL 90 /91 OVER PRINCE CREEK</b>	
SCALE:	SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	11
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				



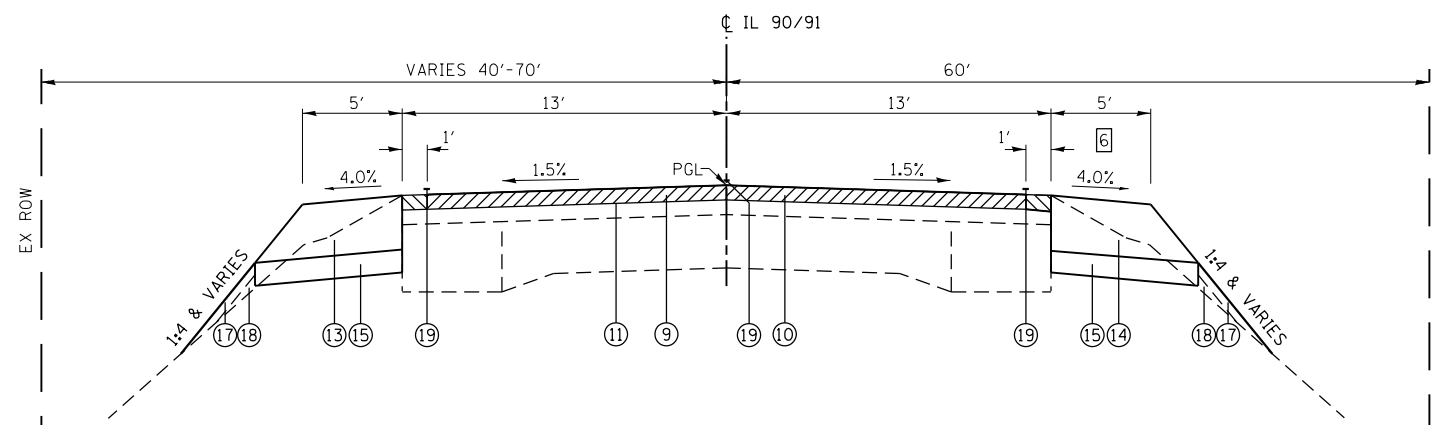
**PROPOSED TYPICAL SECTION #3**

STA. 536+37.83 TO STA. 539+27.00



**PROPOSED TYPICAL SECTION #2**

STA. 533+50.00 TO STA. 534+86.17  
 STRUCTURE, BRIDGE APPROACH, AND CONNECTOR PAVEMENT OMISSION: STA. 534+86.17 TO STA. 536+37.83  
 STA. 539+27.00 TO STA. 540+20.00



**PROPOSED TYPICAL SECTION #1**

STA. 531+50.00 TO STA. 533+50.00  
 STA. 540+20.00 TO STA. 542+00.00

**TYPICAL SECTION LEGEND**

- 1 EXISTING BITUMINOUS BASE COURSE WIDENING
- 2 EXISTING PCC PAVEMENT
- 3 EXISTING BITUMINOUS OVERLAY
- 4 EXISTING BITUMINOUS SURFACE COURSE
- 5 EXISTING ASPHALT SHOULDERS
- 6 EXISTING PAVED SHOULDERS
- 7 EXISTING AGGREGATE SHOULDERS
- 8 EXISTING GUARDRAIL
- 9 PROPOSED HMA SURFACE COURSE, MIX "D", N50, 2"
- 10 PROPOSED HMA SURFACE REMOVAL, VARIABLE DEPTH (1/2" MINIMUM)
- 11 PROPOSED POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)
- 12 PROPOSED HMA BINDER COURSE, VARIABLE DEPTH 4
- 13 PROPOSED BASE COURSE WIDENING, 8"
- 14 PROPOSED HMA SHOULDERS
- 15 PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B 4"
- 16 PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL, 8" 1
- 17 PROPOSED TOPSOIL FURNISH AND PLACE, 4"
- 18 PROPOSED EMBANKMENT
- 19 PROPOSED EPOXY PAVEMENT MARKING - LINE, 4"

**TYPICAL SECTION NOTES**

- 1 SEE DISTRICT 4 STANDARDS FOR EROSION CONTROL AGGREGATE REQUIREMENTS. THIS ITEM IS ONLY REQUIRED BEHIND PROPOSED GUARDRAIL. SEE PLAN AND PROFILE SHEETS FOR EXACT LOCATIONS.
- 2 GUARDRAIL TO BE INSTALLED ON THE RIGHT SIDE FROM STA 532+85.52 TO STA 535+16.77 AND FROM STA 536+07.23 TO STA 537+00.98
- 3 GUARDRAIL TO BE INSTALLED ON THE LEFT SIDE FROM STA 534+23.02 TO STA 535+16.77 AND FROM STA 536+07.23 TO STA 538+38.48
- 4 BUTT JOINT FROM STA 534+65 TO STA 534+86 TO USE SURFACE COURSE (MINIMUM THICKNESS 1.5") IN PLACE OF BINDER COURSE. SEE PAVEMENT TRANSITION DETAIL.
- 5 ESTIMATED VARIABLE DEPTH HMA BINDER COURSE  
 STA 536+38 - 10 1/4"  
 STA 537+00 - 9 1/4"  
 STA 538+00 - 8 1/2"  
 STA 539+00 - 2 1/4"  
 STA 539+27 - 2 1/4"
- 6 ESTIMATED HMA SHOULDERS  
 HMA SHOULDERS, 8" STA 531+50 TO STA 533+50  
 BRIDGE OMISSION STA 534+86.17 TO STA 536+37.83  
 STA 536+38 - 11 3/4"  
 STA 537+00 - 10 3/4"  
 STA 538+00 - 10"  
 STA 539+00 - 4 1/4"  
 STA 539+27 - 4 1/4"  
 HMA SHOULDERS, 8" STA 539+27 TO STA 542+00

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>	
<b>ILLINOIS 90 /91 OVER PRINCE CREEK</b>	
SCALE:	SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	12
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				

**PAVEMENT**

STATION	STATION	OFFSET	SUB GRAN MAT B 4 (TON)	BASE CSE WID 8 (SQ YD)	AGG SURF CSE B (SQ YD)	P BIT MATLS TACK CT (NOTE 1 & 4) (POUND)	HMA SURF REM BUTT JT (SQ YD)	TEMPORARY RAMP (SQ YD)	HMA BC IL-9.5 N50 (TON)	HMA SC "D" N50 (NOTE 1 & 2) (TON)	INCIDENTAL HMA SURF (TON)	PVT CON PCC BR APP SL (SQ YD)	PAVEMENT REM (SQ YD)	PAVED SHLD REMOVAL (SQ YD)	HMA SHOULDERS (TON)	HMA SURF REM VAR DP (NOTE 3) (SQ YD)	MATL TRANSFER DEVICE (TON)
531+50	531+90	CL					116										
531+50	534+86	CL				2,098				116							116
531+50	531+78	RT	4												7		
531+50	531+78	LT	4												7		
531+90	534+56	CL														768	
532+02		LT					106				12						
532+02		RT					91				10						
532+26	534+86	LT	39	142													
532+38	533+50	RT	17												28		
532+93	534+86	RT												51			
533+50	535+46	RT	29	109													
533+62	534+86	LT												53			
534+56	534+86	CL					87										
534+79	534+86	CL						24									
534+86	535+01	CL										63					
534+86	535+46	CL											212				
535+75	536+38	CL											212				
535+78	540+20	RT	66	245													
536+23	536+38	CL										63					
536+38	536+45	CL						24									
536+38	537+68	RT												60			
536+38	538+46	LT												73			
536+38	538+73	CL														679	
536+38	539+33	CL							402								402
536+38	539+33	LT													92		
536+38	539+33	RT													92		
536+38	542+00	CL				2,923				182							182
536+38	542+00	LT	84	312													
537+83		RT			109												
538+73	539+33	CL					173										
539+33	541+60	CL														656	
540+20	542+00	RT	27												45		
541+60	542+00	CL					116										
<b>TOTAL</b>			<b>270</b>	<b>808</b>	<b>109</b>	<b>5,021</b>	<b>688</b>	<b>48</b>	<b>402</b>	<b>298</b>	<b>22</b>	<b>126</b>	<b>424</b>	<b>237</b>	<b>271</b>	<b>2,103</b>	<b>700</b>

**PAVEMENT NOTES:**

- APPLICATION RATES USED FOR QUANTITY ESTIMATES ARE AS FOLLOWS:  
HOT-MIX ASPHALT: 0.056 TONS/SQ YD/INCH  
POLY TACK COAT: 0.1 LBS/SQ FT (ALL LIFTS)
- THE PROPOSED SURFACE COURSE SHALL BE 2 IN. THICK.
- MINIMUM DEPTH OF HMA SURFACE REMOVAL, 1/2 IN. THICK
- ASSUMED 2 APPLICATIONS OF POLY TACK COAT (MILLED SURFACE AND FINAL SURFACE COURSE)

**GUARDRAIL**

STATION	STATION	LOCATION	SPBGR TY A 6FT POSTS (FOOT)	TR BAR TRM T1 SPL TAN (EACH)	TRAF BAR TERM T 6 (EACH)	GUARDRAIL REMOV (FOOT)	TEMPORARY SPBGR, TY A (FOOT)	TEMP TR BAR TERM 6 (EACH)	TERMINAL MARKER DA (NOTE 1) (EACH)	GRDRAIL REF TYPE A (EACH)	BAR WALL REF TYPE C (EACH)	TEMP TRBT T1 SPL TAN (EACH)	GDRL AGG EROS CONT (TON)
532+86	535+16	WB APPROACH	137.5	1	1					10			40
532+88	535+26	WB APPROACH					150.0	1	1			1	
532+88	537+38	WB				379							
533+87	538+38	EB				380							
534+23	535+16	EB DEPART		1	1				1	4			20
535+16	536+08	EB BRIDGE PARAPET									4		
535+16	536+08	WB BRIDGE PARAPET									4		
535+98	537+38	WB DEPART					50.0	1				1	
536+08	537+01	WB DEPART		1	1				1	4			20
536+08	538+38	EB APPROACH	137.5	1	1				1	10			40
<b>TOTAL</b>			<b>275</b>	<b>4</b>	<b>4</b>	<b>759</b>	<b>200.0</b>	<b>2</b>	<b>4</b>	<b>28</b>	<b>8</b>	<b>2</b>	<b>120</b>

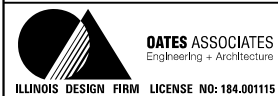
**TRAFFIC CONTROL NOTES:**

- SEE TRAFFIC CONTROL SCHEDULE FOR TEMPORARY GUARDRAIL LOCATIONS.
- APPLICATION RATE FOR AGGREGATE EROSION CONTROL ASSUMES 2.1 TON/CU YD.

**MISCELLANEOUS**

DESCRIPTION	UNIT	QUANTITY
ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10
ENGINEER'S FIELD LABORATORY	CAL MO	10
MOBILIZATION	L SUM	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1
TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
TEMPORARY RUMBLE STRIPS	EACH	6
CONSTRUCTION LAYOUT	L SUM	1

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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES OF QUANTITIES  
IL 90 /91 OVER PRINCE CREEK**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	13
CONTRACT NO. 68668			ILLINOIS FED. AID PROJECT	

**EROSION CONTROL**

STATION	STATION	OFFSET	EROSION CONTR BLANKET (SQ YD)	TEMP EROS CONTR SEED (NOTE 1) (POUND)	TEMP DITCH CHECKS (FOOT)	PERIMETER EROS BAR (FOOT)	STONE DUMP CL A3 (SQ YD)	FILTER FABRIC (SQ YD)
531+49	531+91	LT		4		46		
531+49	531+93	RT		6		45		
532+12	533+50	RT				149		
532+12	535+20	RT		40				
532+13	535+20	LT		30		318		
533+00	535+31	RT	642					
534+50	535+31	RT	225					
534+98	535+04	RT					18	18
534+98	535+04	LT					14	14
535+07		RT			9			
535+15		LT			9			
535+94	536+00	RT	20					
535+94	536+50	LT	187					
536+04	542+00	RT		30				
536+04	542+00	LT		40		600		
536+38		LT			9			
536+42		RT			9			
537+00	537+50	RT				53		
538+16	542+00	RT				383		
<b>TOTAL</b>			<b>1,073</b>	<b>300</b>	<b>36</b>	<b>1,594</b>	<b>32</b>	<b>32</b>

**EROSION CONTROL NOTES:**

- THE QUANTITY FOR TEMPORARY EROSION CONTROL SEEDING ASSUMES TWO SEPARATE APPLICATIONS AT A RATE OF 100 POUNDS/ACRE PER APPLICATION. THE CONTRACTOR SHALL APPLY AS NECESSARY AND AS DIRECTED BY THE ENGINEER IN THE FIELD.

**TRAFFIC CONTROL**

STATION	OFFSET	STATION	OFFSET	TEMP CONC BARRIER (FOOT)	REL TEMP CONC BARRIER (FOOT)	IMP ATTN TEMP NRN TL 3 (EACH)	IMP ATTN REL NRN TL 3 (EACH)	PIN TEMP CONC BARRIER (NOTE 1) (EACH)
533+66	CL	540+14	CL	650.0		2		268
533+82	CL	539+86	CL		612.5		2	267
<b>TOTAL</b>				<b>650.0</b>	<b>612.5</b>	<b>2</b>	<b>2</b>	<b>535</b>

**TRAFFIC CONTROL NOTES:**

- PINNING TEMPORARY CONCRETE BARRIER IS INCLUDED IN THE COST OF TEMPORARY CONCRETE BARRIER ACROSS THE BRIDGE AND APPROACH PAVEMENT. REFER TO STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.

**SEEDING**

STATION	STATION	OFFSET	SEEDING CL 2A (ACRE)	NITROGEN FERT NUTR (POUND)	PHOSPHORUS FERT NUTR (POUND)	POTASSIUM FERT NUTR (POUND)
531+49	531+93	RT	0.03	3	3	3
532+12	535+20	RT	0.20	18	18	18
536+04	542+00	RT	0.15	14	14	14
531+49	531+91	LT	0.02	2	2	2
532+13	535+20	LT	0.15	14	14	14
536+04	542+00	LT	0.20	18	18	18
<b>TOTAL</b>			<b>0.75</b>	<b>68</b>	<b>68</b>	<b>68</b>

**PAVEMENT MARKING**

STATION	STATION	OFFSET	TEMP PVT MK LINE 4 (FOOT)	TEMP PVT MK LINE 24 (FOOT)	SHORT TERM PAVT MKING (FOOT)	SHRT TRM PAVT MK REM (SQ FT)	PAVT MARK TAPE T4 4 (FOOT)	EPOXY PVT MK LINE 4 (YELLOW) (NOTE 1 & 2) (FOOT)	EPOXY PVT MK LINE 4 (WHITE) (NOTE 1) (FOOT)	RAISED REFL PAVT MKR (EACH)	PAVMT MRKG REM WTR BL (SQ FT)	RAISED REF PVT MK REM (EACH)
531+50	542+00	CL	2625		108	36		1313		13		13
531+50	542+00	LT	2100						1050			
531+50	542+00	RT	2100						1050			
531+70		RT		13								
531+70	533+90	CL									73	
531+96		LT		14								
532+05		RT		14								
532+20	541+13	RT				299	907					
532+30	533+74	RT			144	48						
532+40	542+00	LT				313	949					
532+40	541+94	LT			954	315						
533+50	540+20	RT				220	668					
533+50	540+19	RT									223	
533+74	540+22	RT			648	214						
533+74	540+05	LT				208	631					
533+74	534+86	LT									37	
536+38	540+05	LT									122	
539+30	541+97	CL									89	
540+22	541+22	RT			100	33						
541+00		LT		12								
<b>TOTAL</b>			<b>6,825</b>	<b>53</b>	<b>1,954</b>	<b>1,686</b>	<b>3,155</b>	<b>1,313</b>	<b>2,100</b>	<b>13</b>	<b>545</b>	<b>13</b>

**PAVEMENT MARKING NOTES:**

- SEE HIGHWAY STANDARD 780001 FOR PAVEMENT MARKING DETAILS.
- SEE EROSION CONTROL AND PAVEMENT MARKING SHEETS FOR ADDITIONAL INFORMATION.

**EARTHWORK**

STATION	STATION	OFFSET	EARTH EXCAVATION (NOTE 4) (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (NOTE 1) (CU YD)	EMBANKMENT (NOTE 2) (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (NOTE 3) (CU YD)	TOPSOIL FURNISH & PLACE 4" (SQ YD)
531+49	531+91	LT					41
531+49	531+93	RT					81
531+50	535+46		390	293	70	105	
532+12	535+20	RT					870
532+13	535+20	LT					489
535+77	541+00		270	203	269	50	
536+04	541+00	LT					677
536+04	542+00	RT					567
<b>TOTAL</b>			<b>660</b>	<b>495</b>	<b>340</b>	<b>160</b>	<b>2,725</b>

**EARTHWORK NOTES:**

- ESTIMATED SHRINKAGE FACTOR = 25%.
- APPROXIMATE EMBANKMENT QUANTITY IS SHOWN FOR INFORMATION ONLY.
- APPROXIMATE EARTHWORK BALANCE IS SHOWN FOR INFORMATION ONLY.

**SURVEY MARKERS**

STATION	OFFSET	PERM SURV MKRS T1 (EACH)
530+00	CL	1
541+00	CL	1
<b>TOTAL</b>		<b>2</b>

**TREE REMOVAL**

STATION	OFFSET	TREE REMOV 6 TO 15 (UNIT)
535+56	LT	6
535+74	LT	6
535+74	LT	6
535+74	LT	6
535+74	LT	6
535+74	LT	6
<b>TOTAL</b>		<b>36</b>

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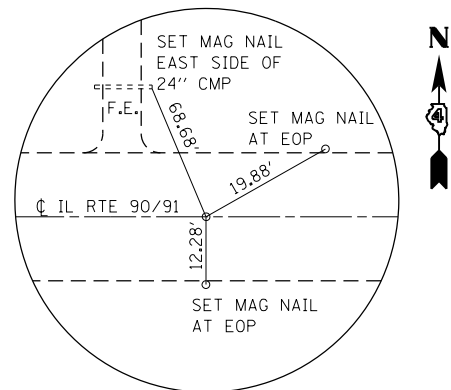
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	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

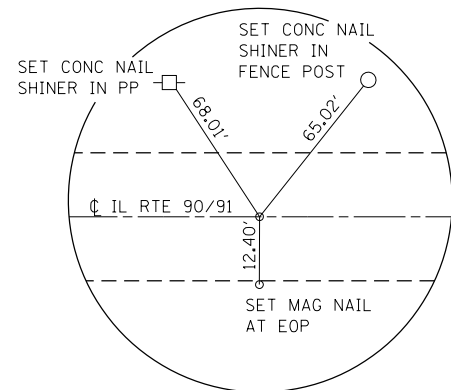
SCHEDULES OF QUANTITIES  
IL 90 /91 OVER PRINCE CREEK

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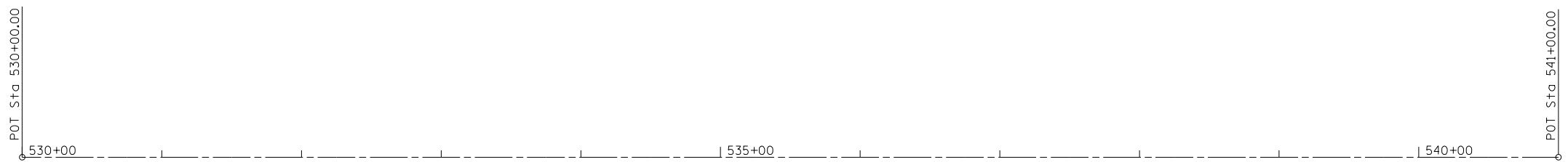
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	14
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				



PK NAIL  
 POT STA 530+00.00  
 N: 1,553,034.44  
 E: 2,415,915.77



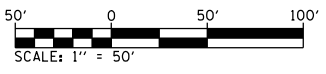
PK NAIL  
 POT STA 541+00.00  
 N: 1,553,018.31  
 E: 2,414,815.89



BM CB-3

BM CB-2 - CHISELED "□" ON TOP OF BACK OF CURB CENTER OF CONCRETE ISLAND ON THE SOUTH SIDE OF ISLAND, SOUTH SIDE OF IL RTE 90 ±1000' WEST OF BRIDGE ELEVATION 745.59

BM CB-3 - CHISELED "□" ON TOP OF NW WINGWALL OF S.N. 072-0020 NORTH SIDE OF IL RTE 90 535+86 RT ELEVATION 700.48



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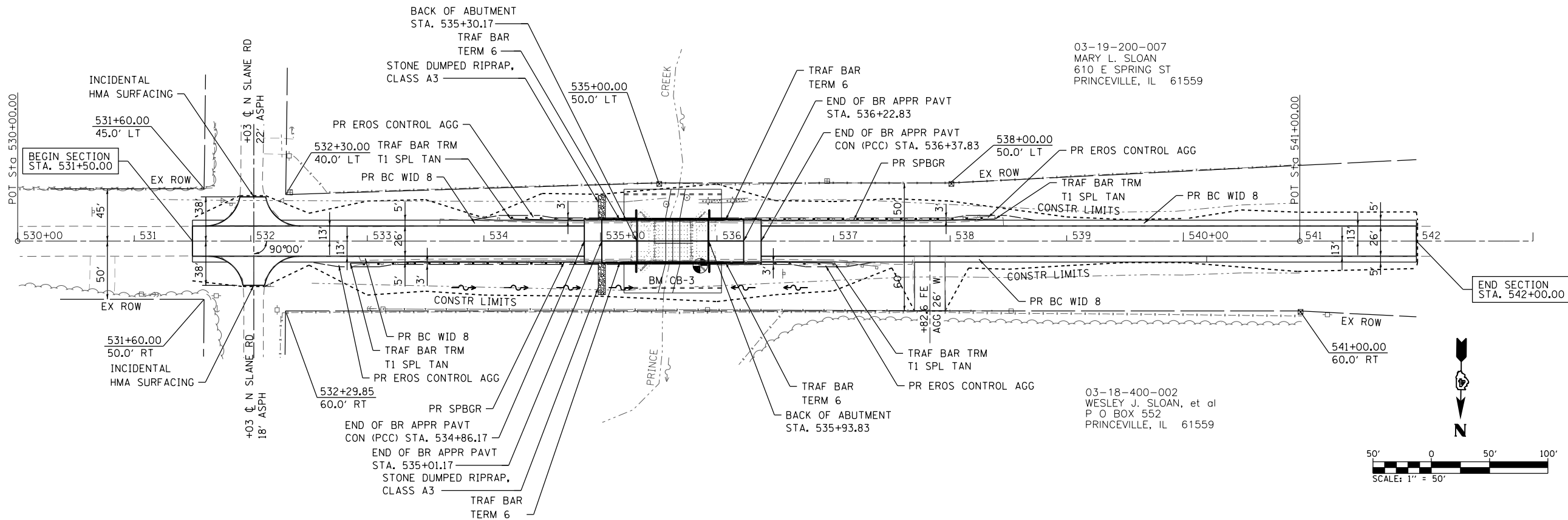
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT TIES & BENCHMARKS			
IL 90 /91 OVER PRINCE CREEK			
SCALE:	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	15
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				

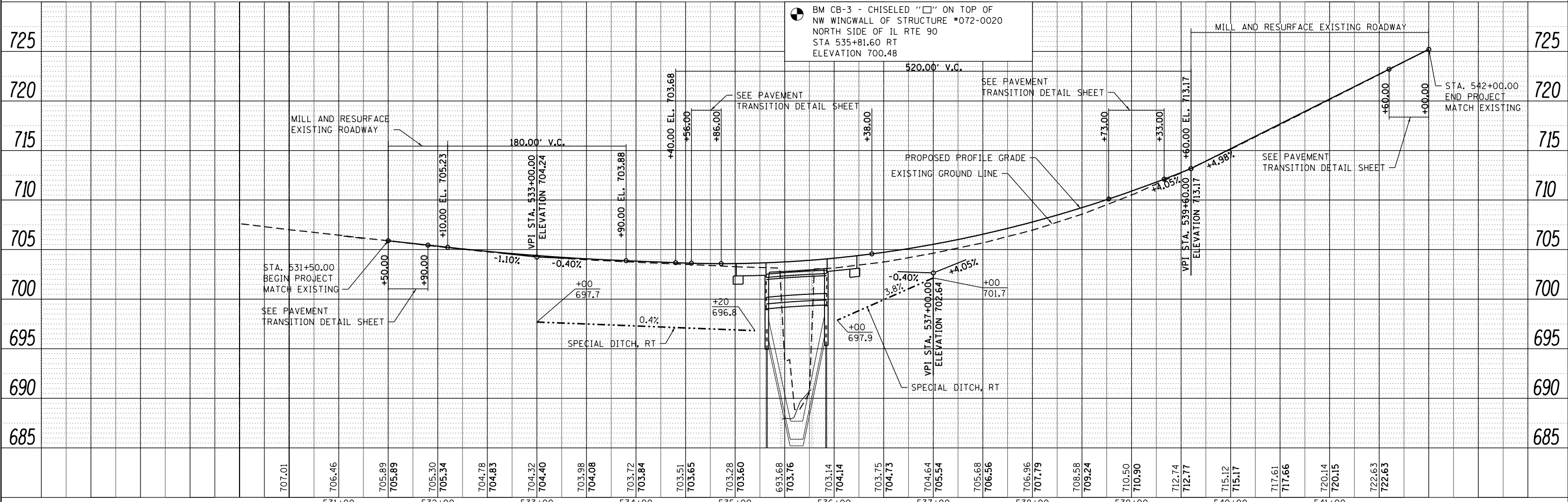
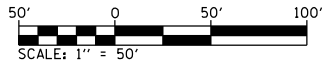
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PROFILE	SURVEYED	DATE
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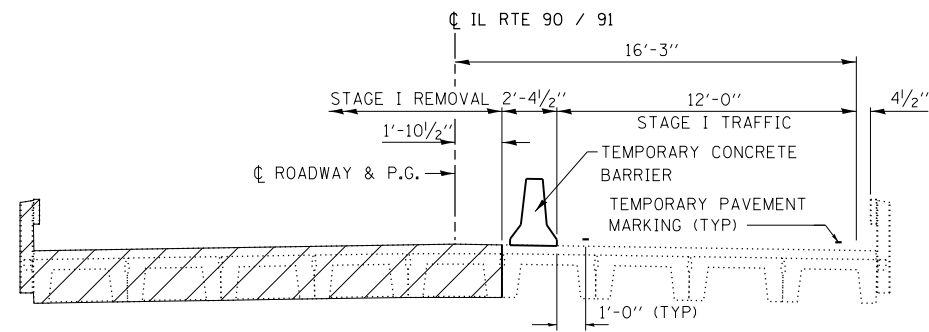
03-19-200-007  
 MARY L. SLOAN  
 610 E SPRING ST  
 PRINCEVILLE, IL 61559

03-18-400-002  
 WESLEY J. SLOAN, et al  
 P O BOX 552  
 PRINCEVILLE, IL 61559



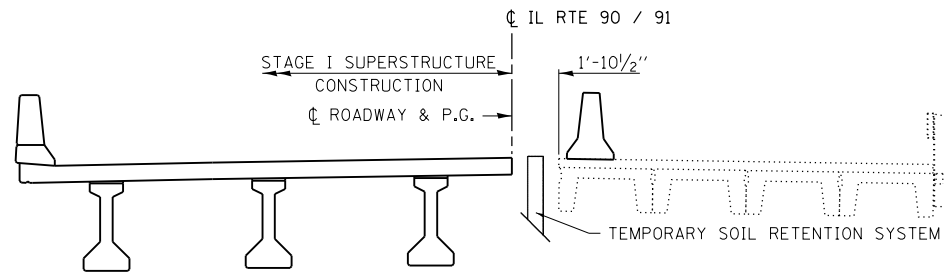
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	PLOT DATE = 11/29/2016	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					





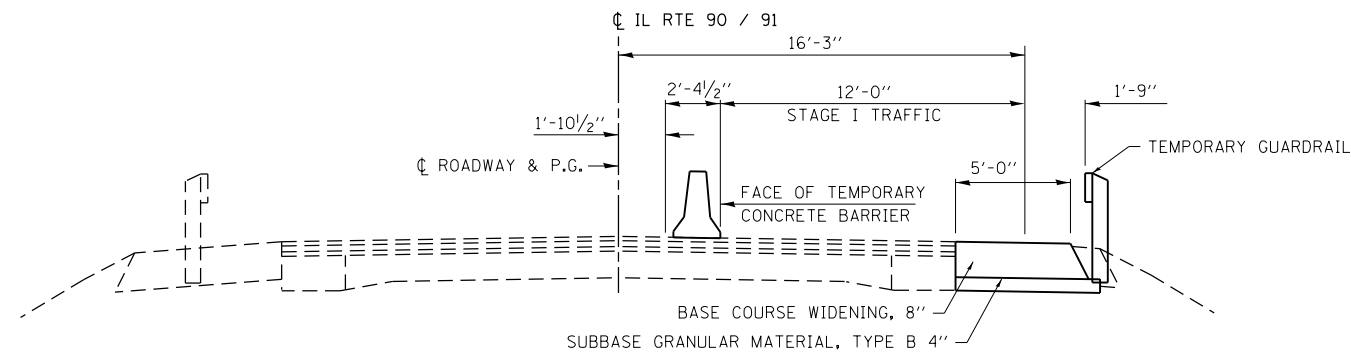
**STAGE 1 BRIDGE REMOVAL TYPICAL SECTION**

(LOOKING WEST AT STRUCTURE)  
FOR INFORMATION ONLY



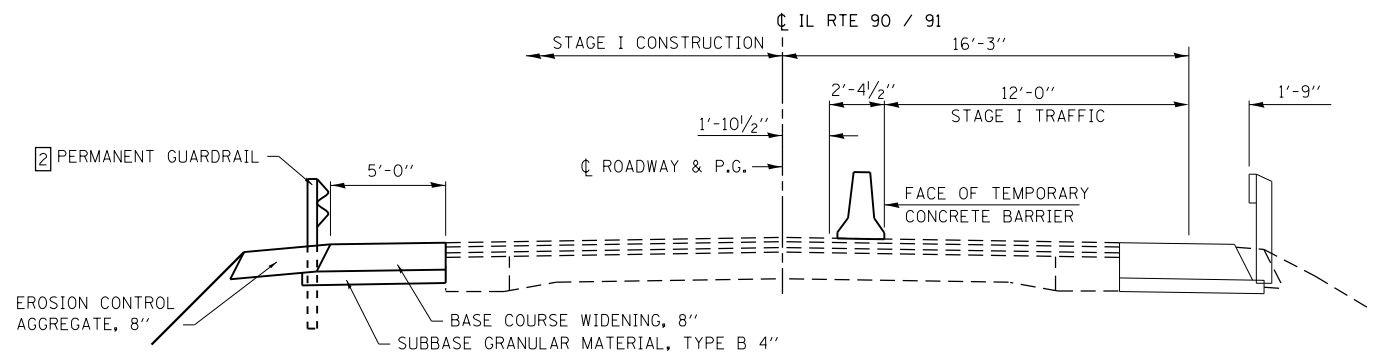
**STAGE 1 BRIDGE CONSTRUCTION TYPICAL SECTION**

(LOOKING WEST AT STRUCTURE)  
FOR INFORMATION ONLY



**STAGE 1, PHASE 1 CONSTRUCTION TYPICAL SECTION**

(EAST OF STRUCTURE, LOOKING WEST)



**STAGE 1, PHASE 2 CONSTRUCTION TYPICAL SECTION**

(EAST OF STRUCTURE, LOOKING WEST)

**ADDITIONAL NOTES**

- 1 TWO-WAY TRAFFIC SHALL BE PERMITTED DURING NON-CONSTRUCTION HOURS. SEE HWY STANDARD 701326 FOR LANE CLOSURE PROCEDURES DURING WIDENING OPERATIONS.
- 2 THE PERMANENT GUARDRAIL SHALL BE BUILT TALL ENOUGH TO MEET THE HEIGHT REQUIREMENTS LISTED ON HWY STD 630001 AFTER SURFACE COURSE HAS BEEN PLACED.

**STAGE CONSTRUCTION GENERAL NOTES**

1. ONE LANE OF TRAFFIC ON ILLINOIS ROUTE 90 / 91 SHALL BE MAINTAINED AT ALL TIMES.
2. EMERGENCY ACCESS SHALL BE PROVIDED AT ALL TIMES.

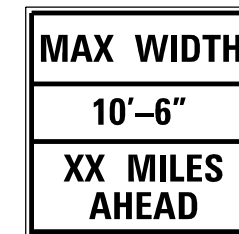
**SUGGESTED STAGE 1 CONSTRUCTION**

**PHASE 1**

1. UTILIZING TRAFFIC CONTROL AND PROTECTION, STANDARD 701316, REMOVE THE EXISTING SHOULDER AND GUARDRAIL AND CONSTRUCT THE BASE COURSE WIDENING, 8" ON THE RT SIDE OF THE ROADWAY FROM STA. 533+50 TO STA. 540+20.
2. INSTALL TEMPORARY GUARDRAIL FROM STA. 532+88 TO STA. 535+46, RIGHT.
3. INSTALL TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 TO CLOSE THE LT HALF OF ROADWAY. SEE "TRAFFIC CONTROL NOTES" FOR MORE DETAILS.
4. INSTALL PAVEMENT MARKING TAPE TYPE IV FOR STAGE 1, PHASE 2 TRAFFIC.
5. PLACE TEMPORARY CONCRETE BARRIER AND IMPACT ATTENUATORS AS SHOWN ON THE NEXT SHEET.

**PHASE 2**

1. UTILIZING TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, DIRECT TRAFFIC TO THE RT LANE OF IL ROUTE 90 / 91.
2. CONSTRUCT TEMPORARY SOIL RETENTION SYSTEM AT THE EAST AND WEST SIDE OF EXISTING STRUCTURE AND REMOVE THE LT SIDE OF THE EXISTING STRUCTURE.
3. CONSTRUCT THE LT SIDE OF THE BRIDGE, BRIDGE APPROACH, AND CONNECTOR PAVEMENT.
4. CONSTRUCT THE LT SIDE OF THE VARIABLE DEPTH HMA BINDER COURSE FROM STA. 536+38 TO STA. 539+33.
5. CONSTRUCT THE BASE COURSE WIDENING, 8" ON THE LT SIDE OF THE ROADWAY FROM STA. 532+26 TO STA. 542+00.
6. INSTALL GUARDRAIL AND EROSION CONTROL AGGREGATE ON LT SIDE OF IL ROUTE 90 / 91 AND COMPLETE DRAINAGE AND GRADING IMPROVEMENTS.
7. INSTALL PAVEMENT MARKING TAPE TYPE IV FOR STAGE 2 TRAFFIC.



PRIOR TO THE IL 90 / 91 SPLIT EAST OF THE PROJECT (2 ASSEMBLIES) AND PRIOR TO THE IL 90 / 91 SPLIT WEST OF THE PROJECT (2 ASSEMBLIES)

SEE SPECIAL PROVISION "WIDTH RESTRICTION SIGNING" FOR FURTHER DETAILS.

**WIDTH RESTRICTION SIGNING DETAILS**

**TRAFFIC CONTROL NOTES:**

1. THREE PHASE SIGNAL OPERATION IS REQUIRED WHEN HWY STD 701316/701321 IS IN EFFECT. THE ENGINEER OF TRAFFIC SHALL APPROVE ALL TIMING PARAMETERS. THE CONTRACTOR SHALL CONTACT RANDY LANINGA, DISTRICT 4 TRAFFIC SIGNAL TECHNICIAN, AT (309) 671-4477, TWO WEEKS PRIOR TO SIGNAL TURN ON.
2. THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL CONFORM TO ALL MUTCD REQUIREMENTS.
3. THE CONTRACTOR SHALL INSTALL MICROWAVE DETECTION FOR USE WITH THE TEMPORARY TRAFFIC SIGNALS IN ACCORDANCE WITH HWY STD 701316/701321. THE CONTRACTOR MAY ELECT TO UTILIZE DETECTOR LOOPS
4. REMOVAL OF DETECTOR LOOPS AND RUMBLE STRIPS AFTER STAGED CONSTRUCTION SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER. ANY DAMAGE TO THE EXISTING PAVEMENT FROM THE RUMBLE STRIPS NEEDS TO BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THERE WILL BE NO ADDITIONAL COMPENSATION.
5. ALL TEMPORARY STRIPING, REFLECTORS, ETC. SHALL BE PLACED PRIOR TO PLACING TEMPORARY CONCRETE BARRIERS.
6. THE PAY LIMITS OF PINNING TEMPORARY CONCRETE BARRIERS SHALL EXCLUDE THE EXISTING BRIDGE, PROPOSED BRIDGE, AND PROPOSED APPROACH PAVEMENT. PINNING TEMPORARY CONCRETE BARRIERS ACROSS THE EXISTING BRIDGE, PROPOSED BRIDGE, AND PROPOSED APPROACH PAVEMENT IS INCLUDED IN THE COST OF THE TEMPORARY CONCRETE BARRIER. SEE STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.

FILE NAME = M:\2016\12 - Prince Creek\Microstation\Sheets\0429048\012-ht-staging.dgn

**OATES ASSOCIATES**  
Engineering + Architecture  
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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PLOT DATE = 11/29/2016	DATE -	REVISED -

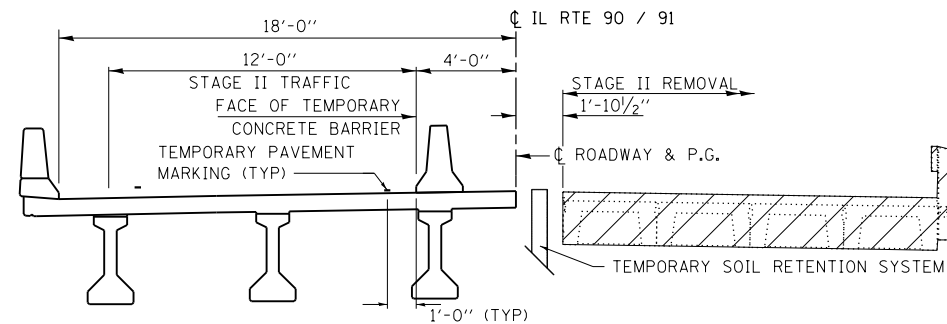
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE 1 TYPICAL SECTIONS & STAGING NOTES  
IL 90 / 91 OVER PRINCE CREEK**

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

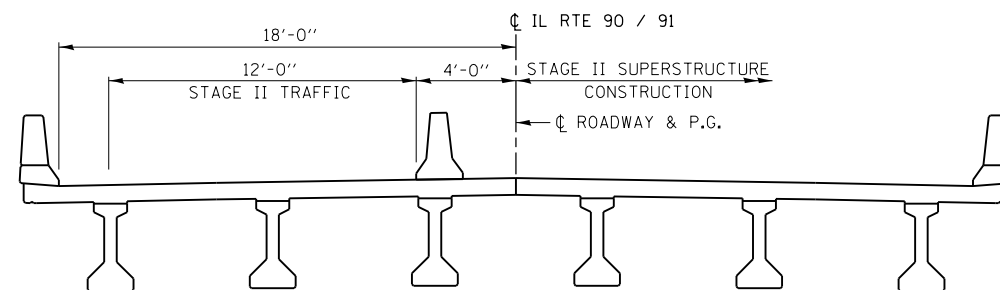
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8)BIBR-1	PEORIA	71	17
<b>CONTRACT NO. 68668</b>				
ILLINOIS FED. AID PROJECT				





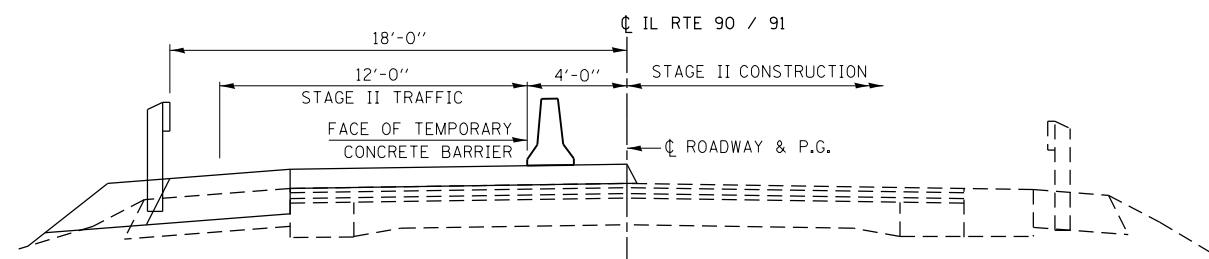
**STAGE 2 BRIDGE REMOVAL TYPICAL SECTION**

(LOOKING WEST AT STRUCTURE)  
FOR INFORMATION ONLY



**STAGE 2 BRIDGE CONSTRUCTION TYPICAL SECTION**

(LOOKING WEST AT STRUCTURE)  
FOR INFORMATION ONLY



**STAGE 2 CONSTRUCTION TYPICAL SECTION**

(EAST OF STRUCTURE, LOOKING WEST)

**SUGGESTED STAGE 2 CONSTRUCTION**

1. UTILIZING TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, DIRECT TRAFFIC TO THE LT LANE OF IL ROUTE 90 / 91.
2. REMOVE THE RT SIDE OF THE EXISTING STRUCTURE.
3. CONSTRUCT THE RT SIDE OF THE BRIDGE, BRIDGE APPROACH, AND CONNECTOR PAVEMENT.
4. CONSTRUCT THE RT SIDE OF THE VARIABLE DEPTH HMA BINDER COURSE FROM STA. 536+38 TO STA. 539+33.
5. REMOVE TEMPORARY GUARDRAIL AND CONSTRUCT THE REMAINING HMA SHOULDER ON THE RT SIDE.
6. INSTALL GUARDRAIL AND EROSION CONTROL AGGREGATE ON RT SIDE OF IL ROUTE 90 / 91 AND COMPLETE DRAINAGE AND GRADING IMPROVEMENTS.

**SUGGESTED STAGE 3 CONSTRUCTION**

1. PERFORM HMA SURFACE REMOVAL & BUTT JOINT ON THE LT & RT SIDES OF IL ROUTE 90 / 91 FROM STA. 531+50 TO STA. 534+86 AND FROM STA. 536+38 TO STA. 542+00.
2. CONSTRUCT PROPOSED HMA SURFACE COURSE FOR THE LT & RT SIDES OF IL ROUTE 90 / 91 FROM STA. 531+50 TO STA. 534+86 AND FROM STA. 536+38 TO STA. 542+00.
3. FILL REMAINING BUTT JOINT STA 534+56 TO STA 534+86 WITH SURFACE COURSE (MINIMUM 1.5" THICK). SEE PAVEMENT TRANSITION DETAIL.
4. CONSTRUCT ALL REMAINING IMPROVEMENTS.

FILE NAME = M:\2016\48\WD 12 - Prince Creek\Microstation\Sheets\0429048\02-ht-staging.dgn

**DATES ASSOCIATES**  
Engineering + Architecture  
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

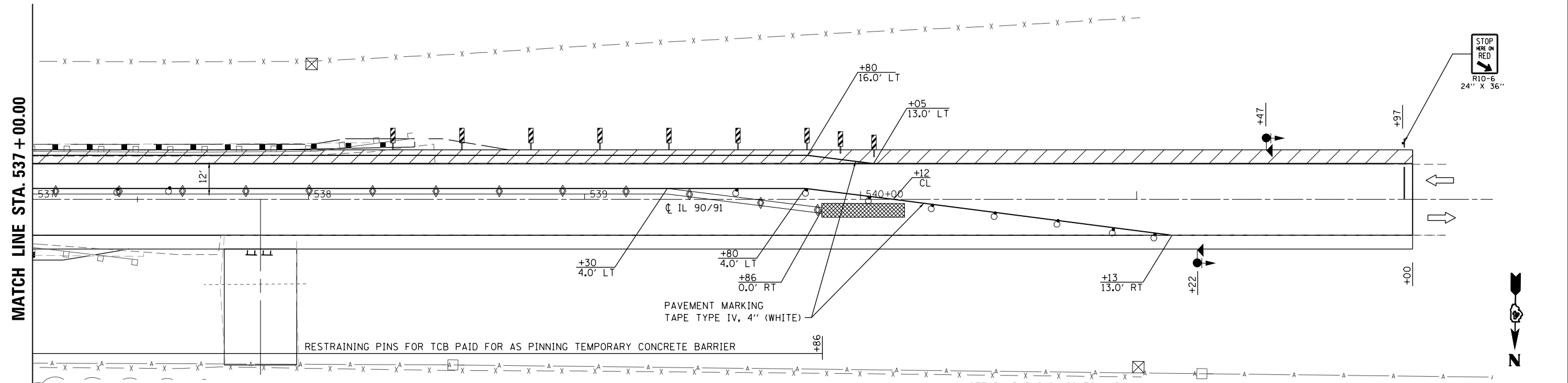
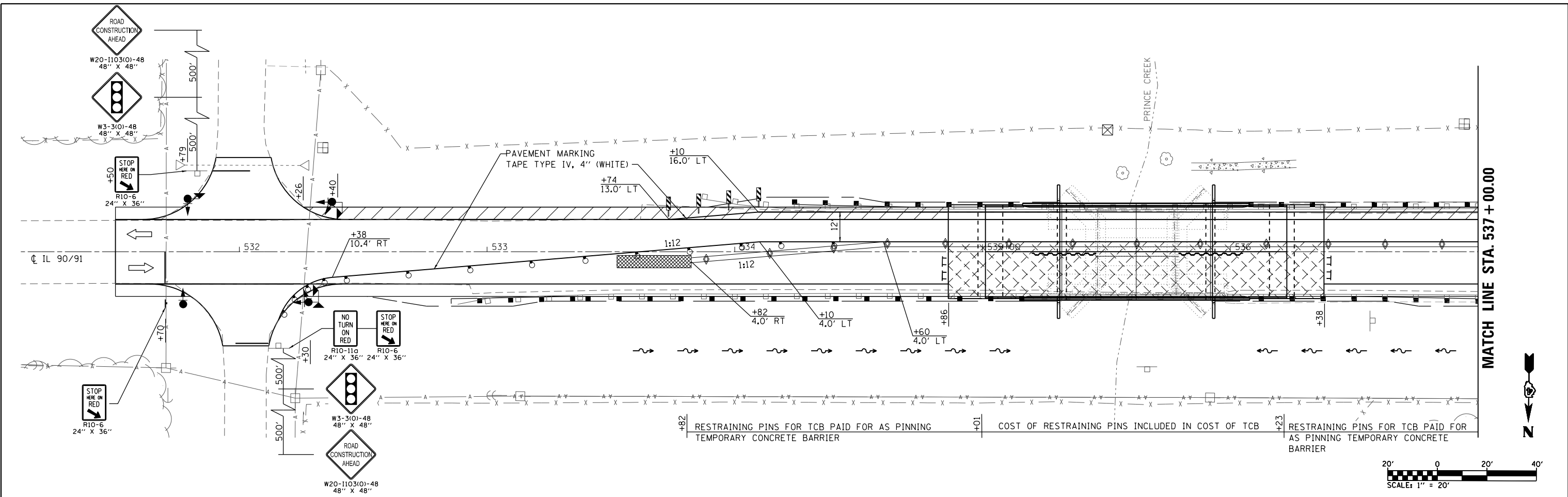
**STAGE 2 TYPICAL SECTIONS & STAGING NOTES  
IL 90 / 91 OVER PRINCE CREEK**

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	19
<b>CONTRACT NO. 68668</b>				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
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	NOTE BOOK NO.	
	FILE NAME	

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



**LEGEND**

- TRAFFIC SIGNALS
- TRAFFIC SIGNALS WITH MICROWAVE DETECTORS
- DRUM WITH STEADY BURNING LIGHT
- STOP LINE 24"
- ▨ IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- ▭ WORK AREA
- ▨ DOUBLE VERTICAL PANEL
- ◇ TYPE C BI-DIRECTIONAL REFLECTOR
- ⊥ TYPE III BARRICADE WITH FLASHING LIGHTS
- ~ TEMPORARY SOIL RETENTION SYSTEM
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
- ⊥ SIGN
- ▨ HMA BC WID
- ➔ DIRECTION OF TRAFFIC

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 DATE -

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 REVISED -

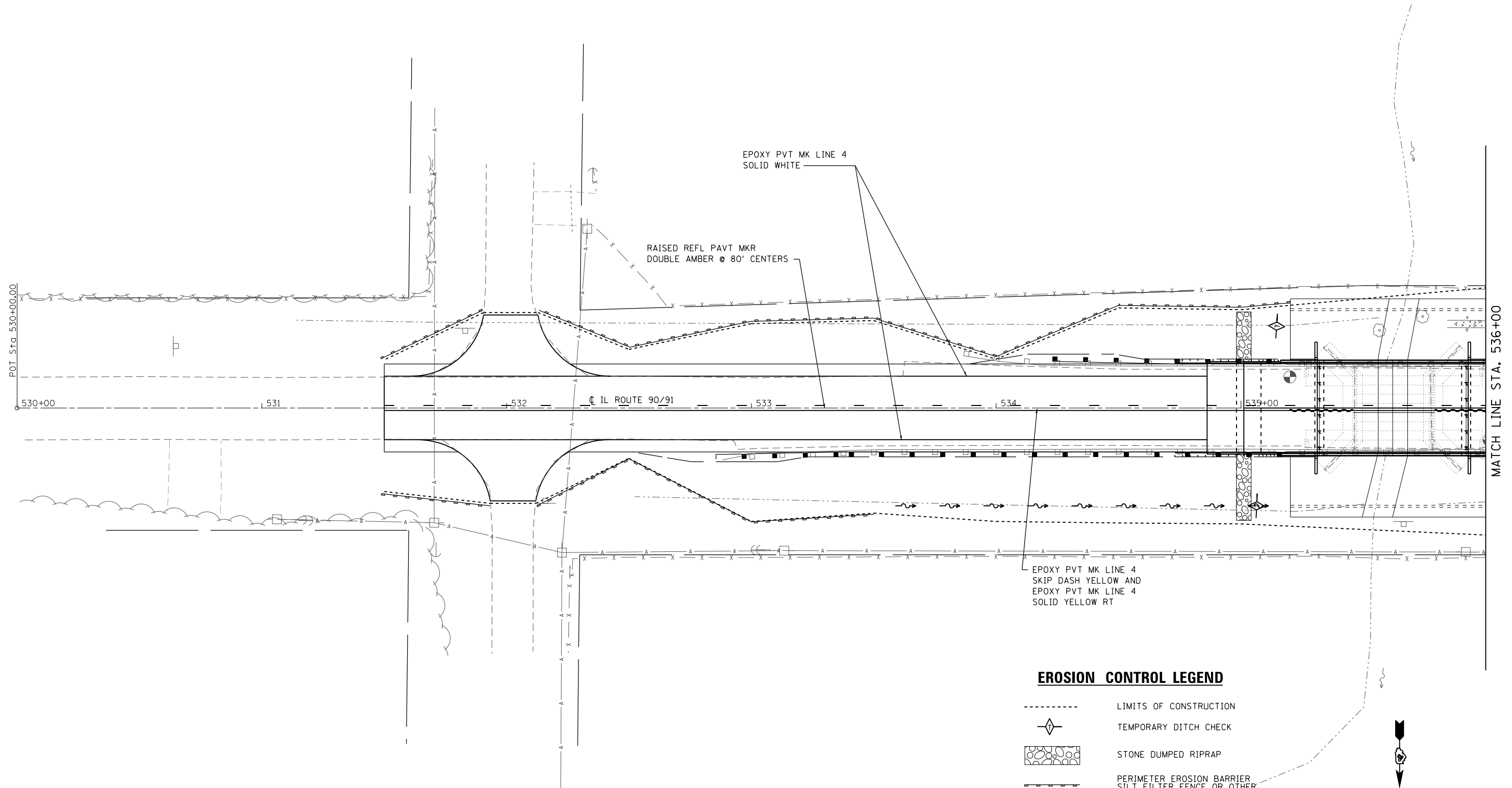
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGE 2 CONSTRUCTION AND TRAFFIC CONTROL  
 IL 90 /91 OVER PRINCE CREEK**

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8)BR-1	PEORIA	71	20
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				

FILE NAME = M:\2016\48\12 - Prince Creek\Microstation\Sheets\0429048\02-ht-eros-pmk.dgn



EPOXY PVT MK LINE 4  
SOLID WHITE

RAISED REFL PAVT MKR  
DOUBLE AMBER @ 80' CENTERS

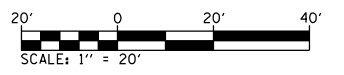
EPOXY PVT MK LINE 4  
SKIP DASH YELLOW AND  
EPOXY PVT MK LINE 4  
SOLID YELLOW RT

**EROSION CONTROL LEGEND**

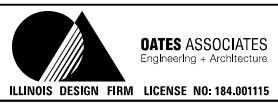
- LIMITS OF CONSTRUCTION
- ◇ TEMPORARY DITCH CHECK
- ⊞ STONE DUMPED RIPRAP
- PERIMETER EROSION BARRIER  
SILT FILTER FENCE OR OTHER  
AS APPROVED BY THE ENGINEER

**EROSION CONTROL NOTES**

TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT TWO SEPARATE OCCASIONS AT A RATE OF 100 POUNDS/ACRE PER APPLICATION. THE CONTRACTOR SHALL APPLY AS DIRECTED BY THE ENGINEER IN THE FIELD.



MATCH LINE STA. 536+00



USER NAME = matt.fields	DESIGNED -	REVISED -
DRAWN -	REVISOR -	REVISION -
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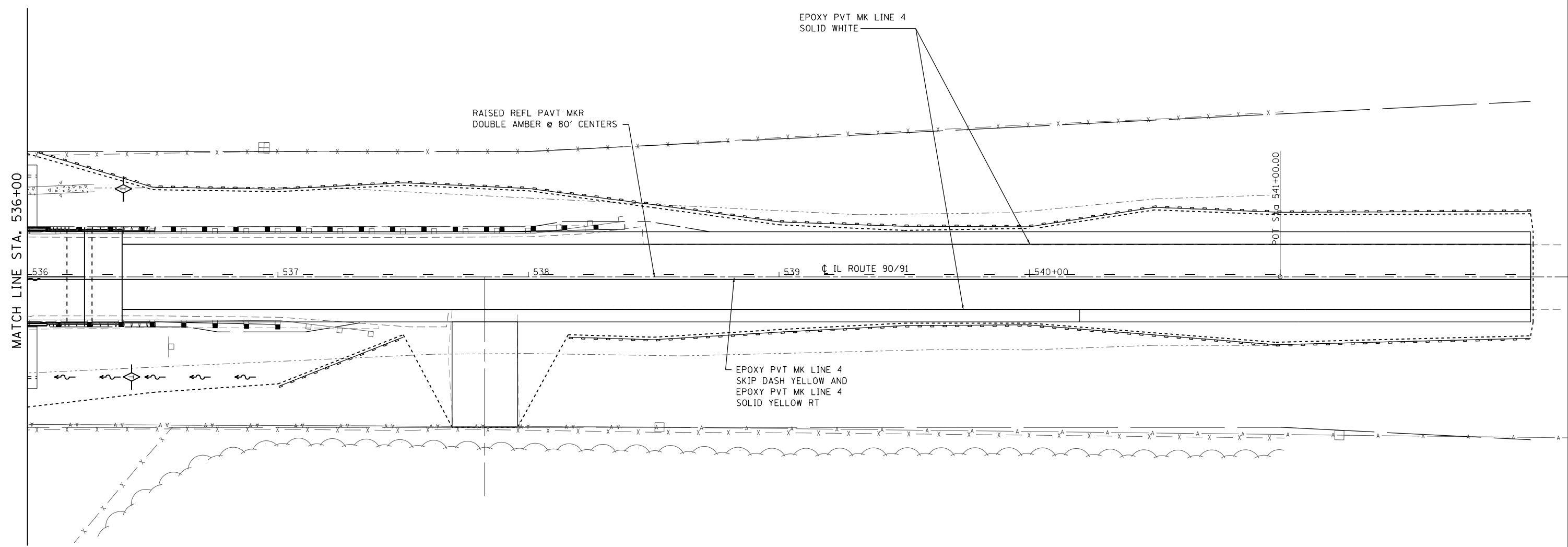
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL & PAVEMENT MARKING SHEETS  
IL 90 /91 OVER PRINCE CREEK**

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	21
CONTRACT NO. 68668				
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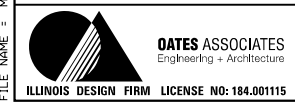
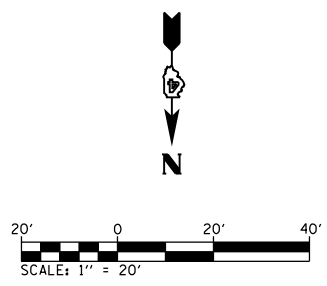


**EROSION CONTROL LEGEND**

- LIMITS OF CONSTRUCTION
- ◆ TEMPORARY DITCH CHECK
- ⊗ STONE DUMPED RIPRAP
- PERIMETER EROSION BARRIER SILT FILTER FENCE OR OTHER AS APPROVED BY THE ENGINEER

**EROSION CONTROL NOTES**

TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT TWO SEPARATE OCCASIONS AT A RATE OF 100 POUNDS/ACRE PER APPLICATION. THE CONTRACTOR SHALL APPLY AS DIRECTED BY THE ENGINEER IN THE FIELD.



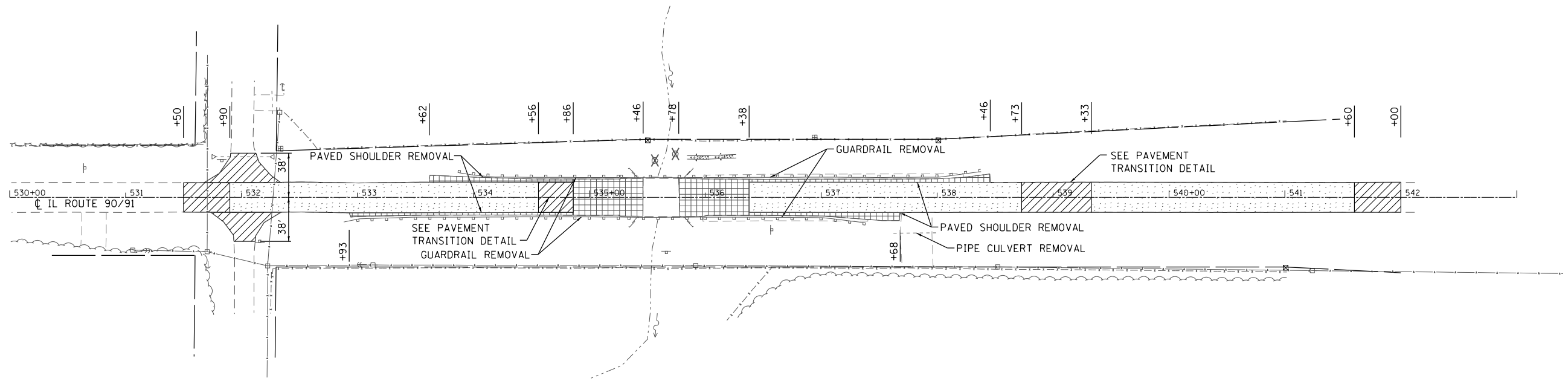
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PLOT DATE = 11/29/2016	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**





**EROSION CONTROL & PAVEMENT MARKING SHEETS  
IL 90 /91 OVER PRINCE CREEK**

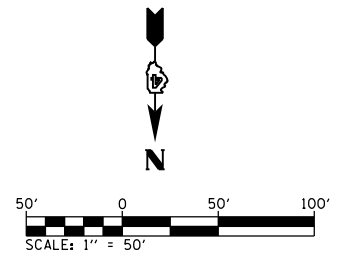
SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	22
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				

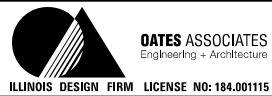


**REMOVAL LEGEND**

-  HMA SURF REM BUTT JT
-  PAVEMENT REM
-  HMA SURF REM VAR DP
-  TREE REMOVAL



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	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/29/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL SHEET  
IL 9091 OVER PRINCE CREEK**

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. TO STA.

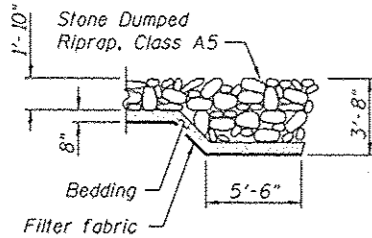
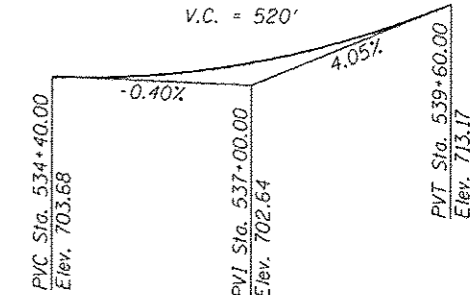
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	23
<b>CONTRACT NO. 68668</b>				
ILLINOIS FED. AID PROJECT				

Benchmark: Chiseled square on top of northwest wingwall, Sta. 535+81.60, 17.45' RT, Elev. 700.48.

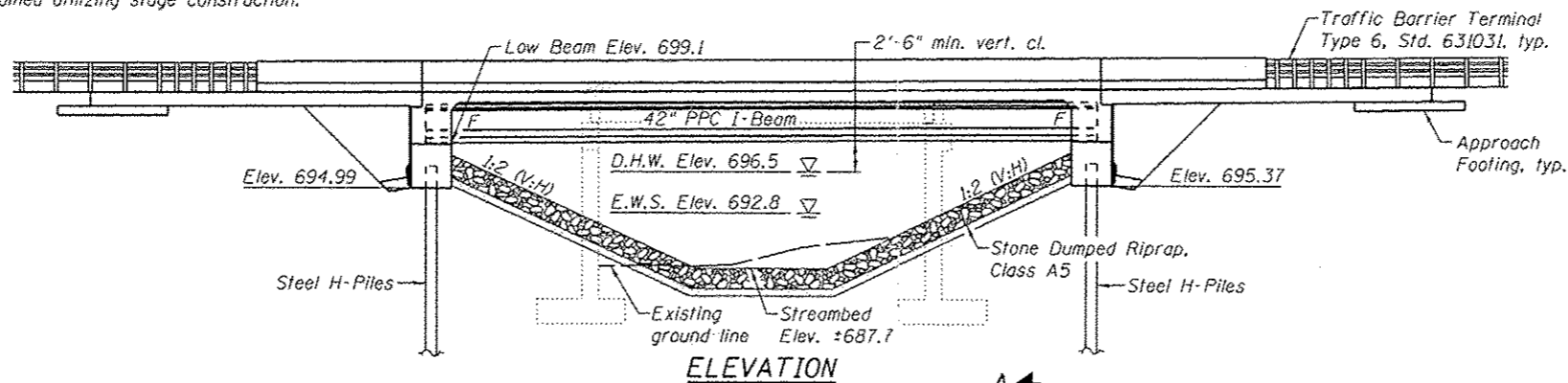
Existing Structure: S.N. 072-0020 was originally built in 1926 as S.B.I. 30, Section 8B and was reconstructed in 1977 as F.A.P. 661, Section 8BR. The structure consists of a single span of precast concrete channel beams with a bituminous wearing surface supported by closed abutments founded on timber piles. The back to back abutment length is 32'-8 1/2" and the out to out width is 33'-9". Structure to be removed and replaced.

Traffic Control: One lane of traffic will be maintained utilizing stage construction.

Salvage: None



SECTION A-A



ELEVATION

PROFILE GRADE  
(Along Center Roadway)

STATION 535+62.00  
BUILT 20\_\_ BY  
STATE OF ILLINOIS  
F.A.P. RT. 661 SEC. (8B)BR-1  
LOADING HL-93  
STRUCTURE NO. 072-0247

NAME PLATE  
See Std. 515001

DESIGN SPECIFICATIONS  
2014 AASHTO LRFD Bridge Design  
Specifications, 7th Edition with 2015 Interims

DESIGN STRESSES  
FIELD UNITS

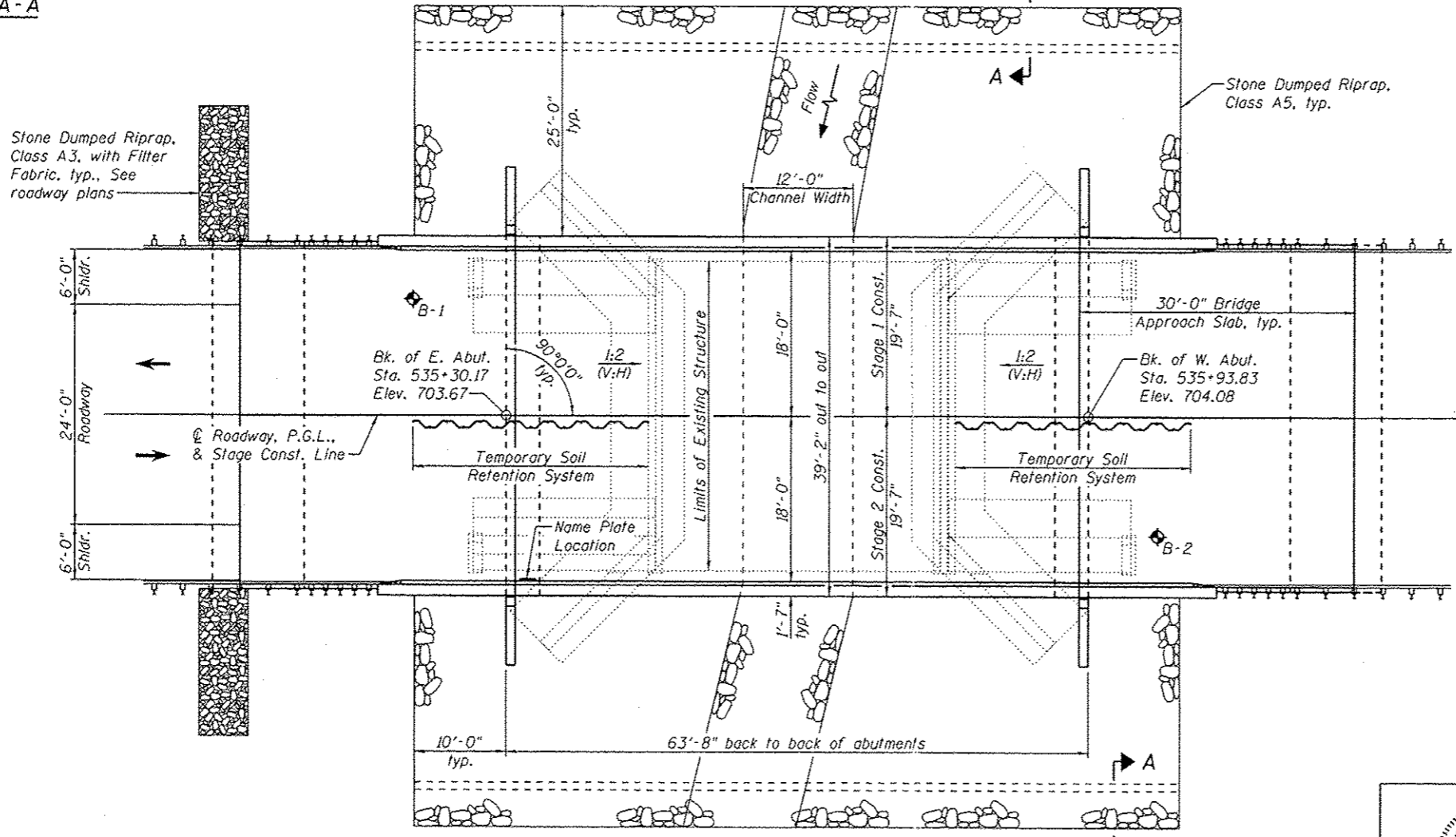
- f'c = 3,500 psi
- f'c = 4,000 psi (Superstructure concrete)
- fy = 60,000 psi (Reinforcement)
- PRECAST PRESTRESSED UNITS
- f'c = 6,000 psi
- f'ci = 5,000 psi
- fpu = 270,000 psi (1/2" low-relax strands)
- fprt = 201,960 psi (1/2" low-relax strands)

LOADING HL-93

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

SEISMIC DATA

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



PLAN

WATERWAY INFORMATION

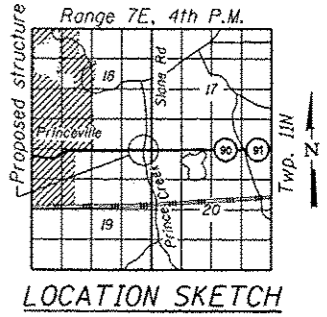
Drainage Area = 3.21 sq. mi.		Existing Low Grade Elev. 703.1 at Sta. 535+80		Proposed Low Grade Elev. 703.5 at Sta. 534+80	
Flood Yr.	0	10	50	100	Max. Calc.
Design	50	1,580	186	257	696.5
Base	100	1,870	202	282	697.0
Max. Calc.	500	2,560	228	327	697.9

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)		
	E. Abut.	W. Abut.	Item 113
0100	694.99	695.37	8
0200	694.99	695.37	
Design	694.99	695.37	
Check	694.99	695.37	

**APPROVED**  
For Structural Adequacy Only  
*Daniel George Lutz*  
Engineer of Bridges & Structures

DATE: 11/23/2016  
EXPIRATION: 11/30/2018



GENERAL PLAN & ELEVATION  
IL ROUTE 90/91 OVER PRINCE CREEK  
F.A.P. RTE. 661 - SEC. (8B)BR-1  
PEORIA COUNTY  
STATION 535+62.00  
STRUCTURE NO. 072-0247



USER NAME *	DESIGNED - KBC	REVISED -
PLOT SCALE *	CHECKED - SJN	REVISED -
PLOT DATE *	DRAWN - KBC	REVISED -
	CHECKED - SJN	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	73	24
CONTRACT NO. 68668				

ILLINOIS FED. AID PROJECT



**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

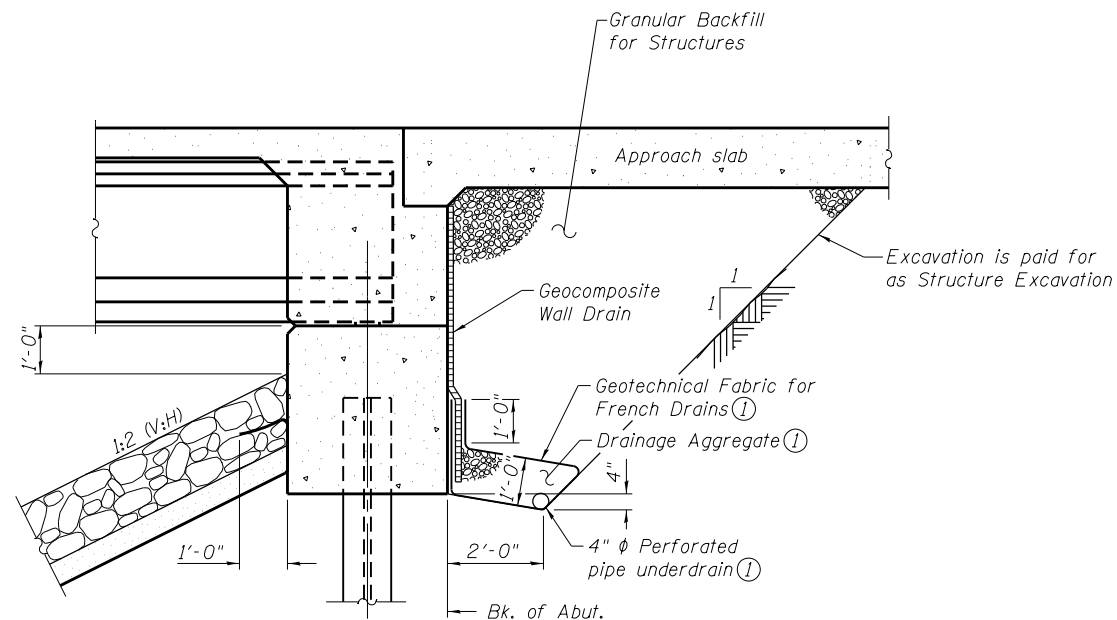
Slipforming of the parapets is not allowed.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Dumped Riprap, Class A5	Sq. Yd.	-	775	775
Filter Fabric	Sq. Yd.	-	775	775
Removal of Existing Structures	Each	-	-	1
Structure Excavation	Cu. Yd.	-	279	279
Concrete Structures	Cu. Yd.	-	75.0	75.0
Concrete Superstructure	Cu. Yd.	117.3	-	117.3
Bridge Deck Grooving	Sq. Yd.	463	-	463
Protective Coat	Sq. Yd.	571	-	571
Concrete Superstructure (Approach Slab)	Cu. Yd.	113.4	-	113.4
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 42 in.	Foot	366.0	-	366.0
Reinforcement Bars, Epoxy Coated	Pound	59,400	11,670	71,070
Bar Splicers	Each	411	108	519
Furnishing Steel Piles HP12x53	Foot	-	405	405
Driving Piles	Foot	-	405	405
Test Pile Steel HP12x53	Each	-	2	2
Name Plates	Each	1	-	1
Temporary Soil Retention System	Sq. Ft.	-	425	425
Geocomposite Wall Drain	Sq. Yd.	-	79	79
Asbestos Bearing Pad Removal	Each	-	-	18
Pipe Underdrains for Structures 4"	Foot	-	170	170
Granular Backfill for Structures	Cu. Yd.	-	143	143

**INDEX OF SHEETS**

Sheet No.	Description
1	General Plan & Elevation
2	General Data
3	Stage Construction Details
4	Temporary Concrete Barrier for Stage Construction
5-6	Top of Slab Elevations
7	Top of East Approach Slab Elevations
8	Top of West Approach Slab Elevations
9	Superstructure
10	Superstructure Details
11	Diaphragm Details
12-13	Bridge Approach Slab Details
14	Framing Plan
15	42" PPC I-Beam
16	42" PPC I-Beam Details
17	East Abutment Details
18	West Abutment Details
19	HP Pile Details
20	Bar Splicer Assembly and Mechanical Splicer Details
21-22	Soil Boring Logs
23-28	Existing Bridge Plans

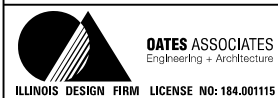


**SECTION THRU INTEGRAL ABUTMENT ②**

**Notes:**

- ① Included in the cost of Pipe Underdrains for Structures 4".
- ② 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).

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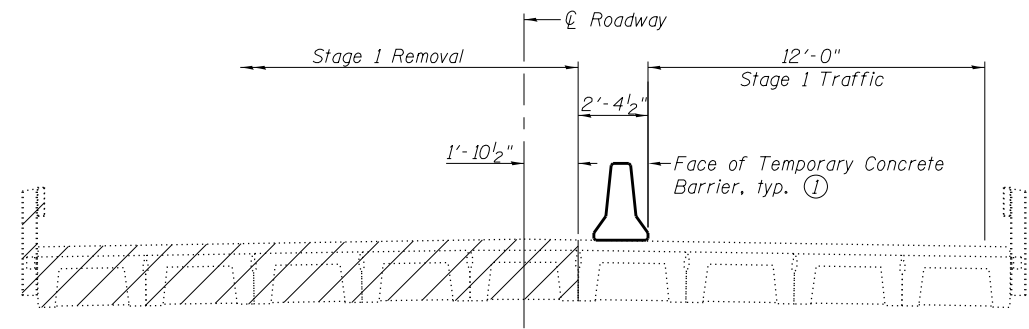
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PLOT DATE = 11/28/2016	CHECKED - SJN	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

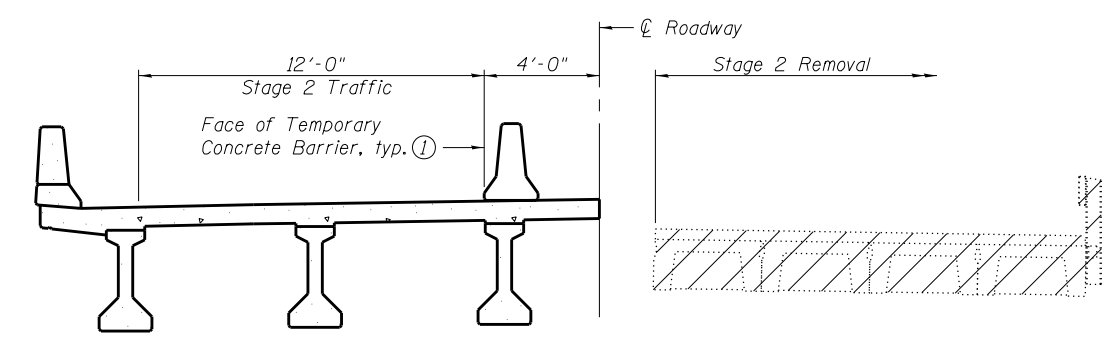
**GENERAL DATA  
STRUCTURE NO. 072-0247**

SHEET NO. 2 OF 28 SHEETS

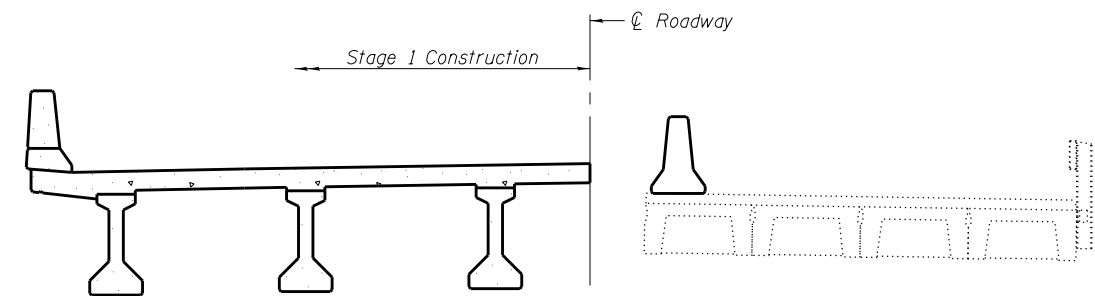
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	25
<b>CONTRACT NO. 68668</b>				
ILLINOIS FED. AID PROJECT				



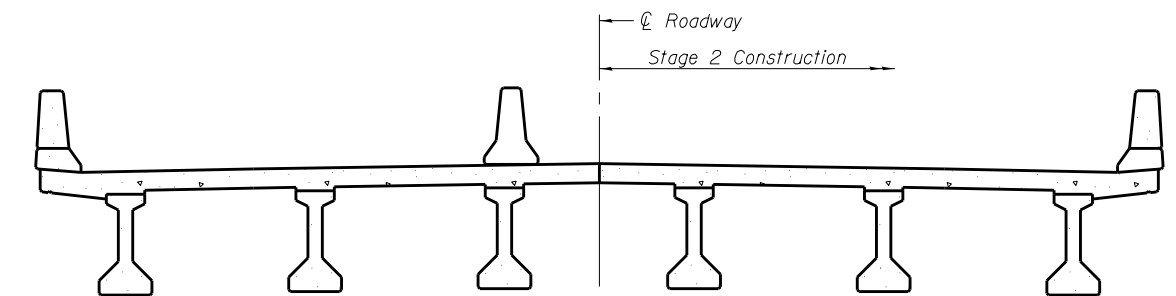
**STAGE 1 REMOVAL**  
(Looking West)



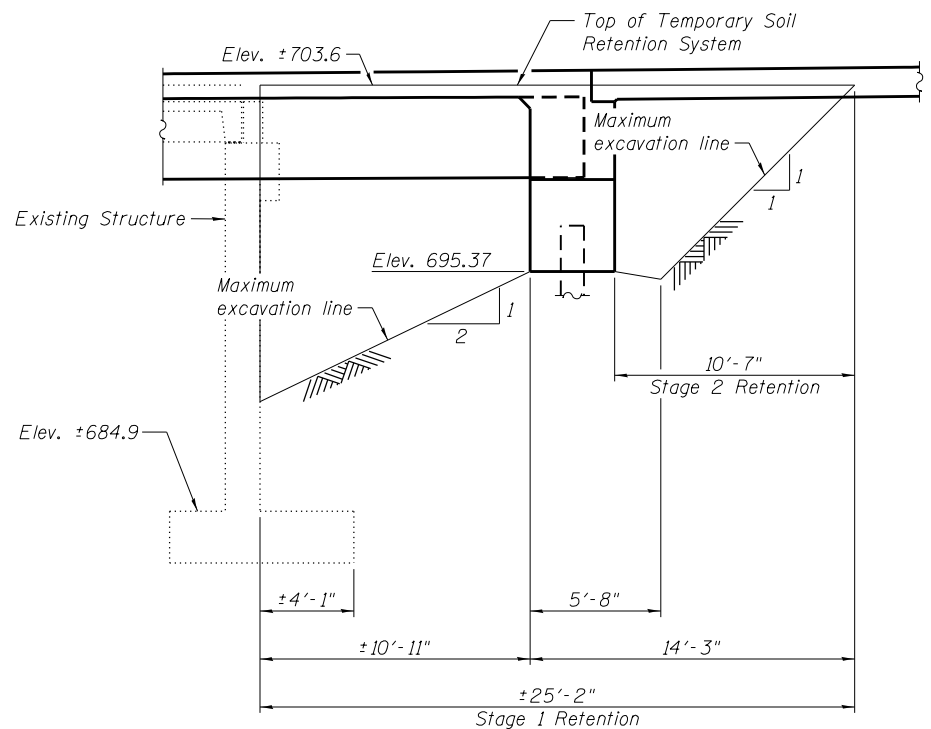
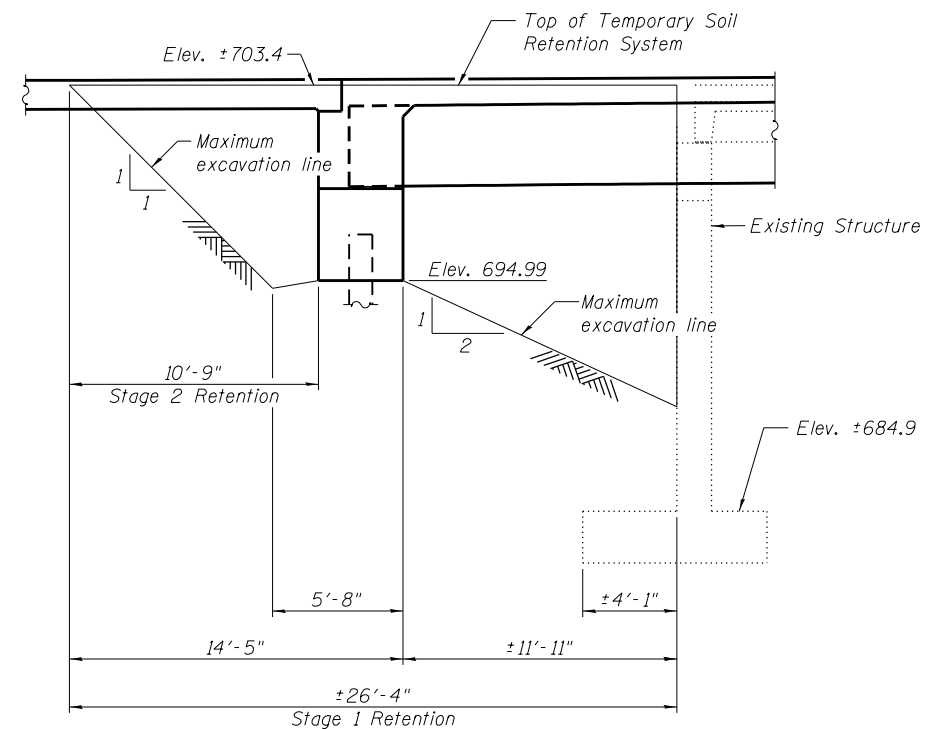
**STAGE 2 REMOVAL**  
(Looking West)



**STAGE 1 CONSTRUCTION**  
(Looking West)



**STAGE 2 CONSTRUCTION**  
(Looking West)



**TEMPORARY SOIL RETENTION SYSTEM ②**

Notes:  
 ① For details of Temporary Concrete Barrier, see sheet 4 of 28. For quantity of Temporary Concrete Barrier and related traffic control, see roadway plans.  
 ② A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

FILE NAME = H:\P\29048\NO. 12 SIGN\2-0247.IL 90 & 91 over Prince Creek Phase II PSE\Structural\Final Plans\Miscstation\0720247-68668-003-Stage Construction Details.dgn



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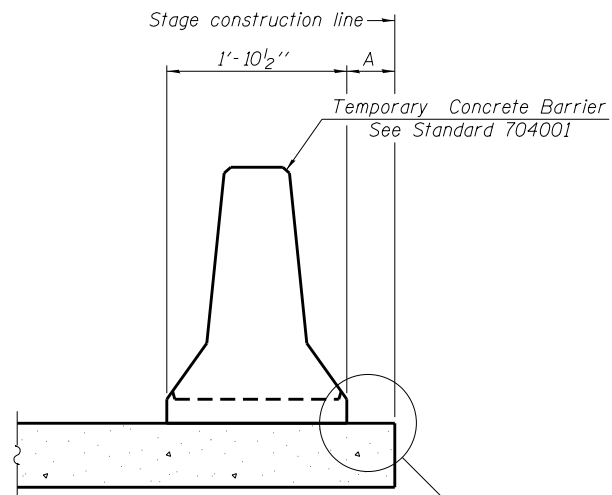
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS**  
**STRUCTURE NO. 072-0247**

SHEET NO. 3 OF 28 SHEETS

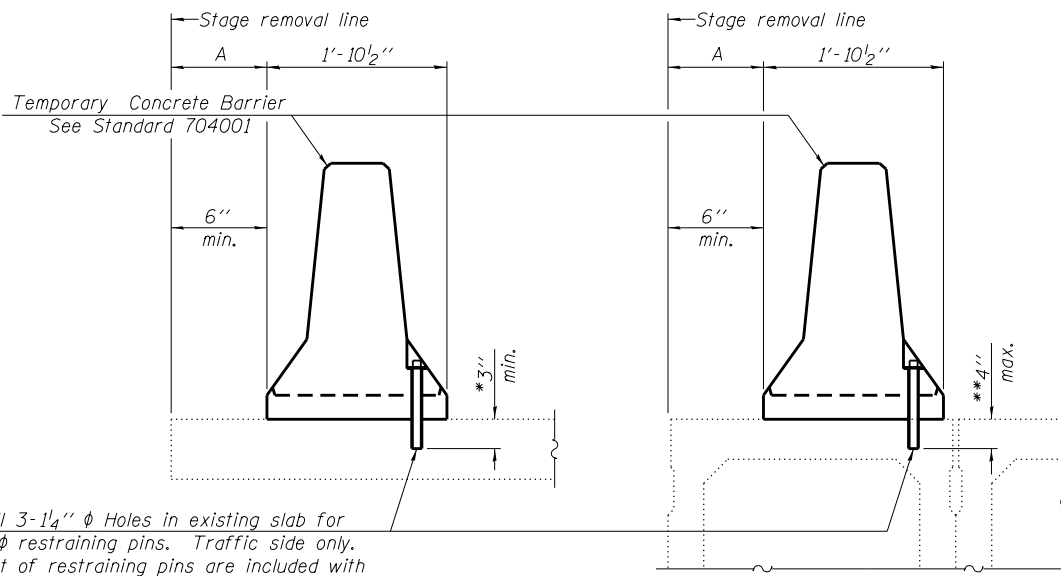
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	26
<b>CONTRACT NO. 68668</b>				

ILLINOIS FED. AID PROJECT



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I or Detail II. No restraint is required when "A" is greater than 3'-1".

**NEW SLAB**



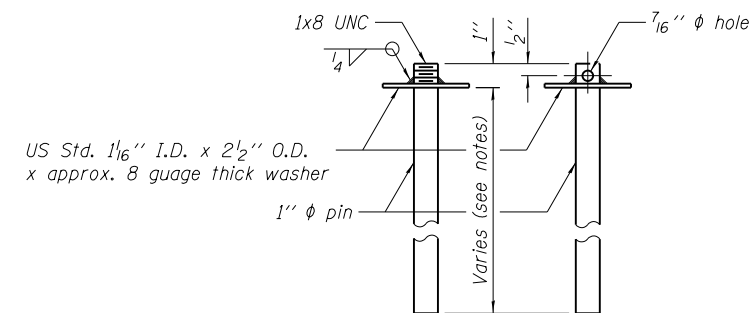
Drill 3-1/4"  $\phi$  Holes in existing slab for 1"  $\phi$  restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

**EXISTING SLAB**

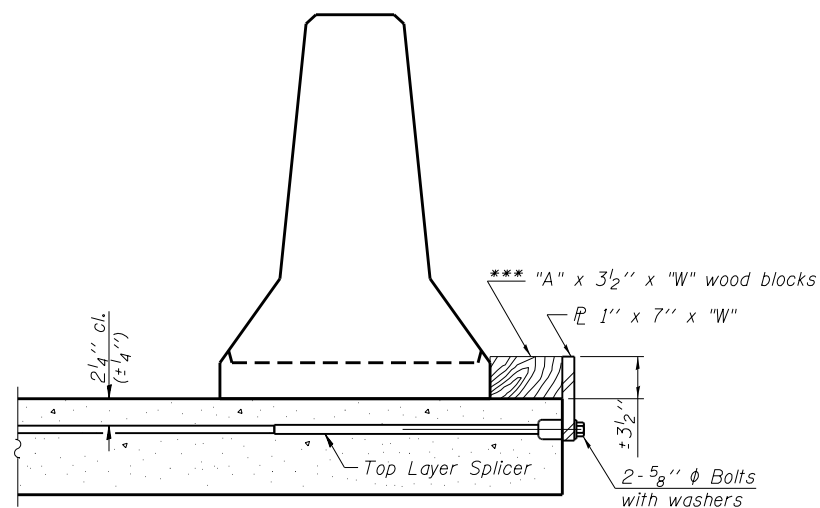
**EXISTING DECK BEAM**

**SECTIONS THRU SLAB OR DECK BEAM**

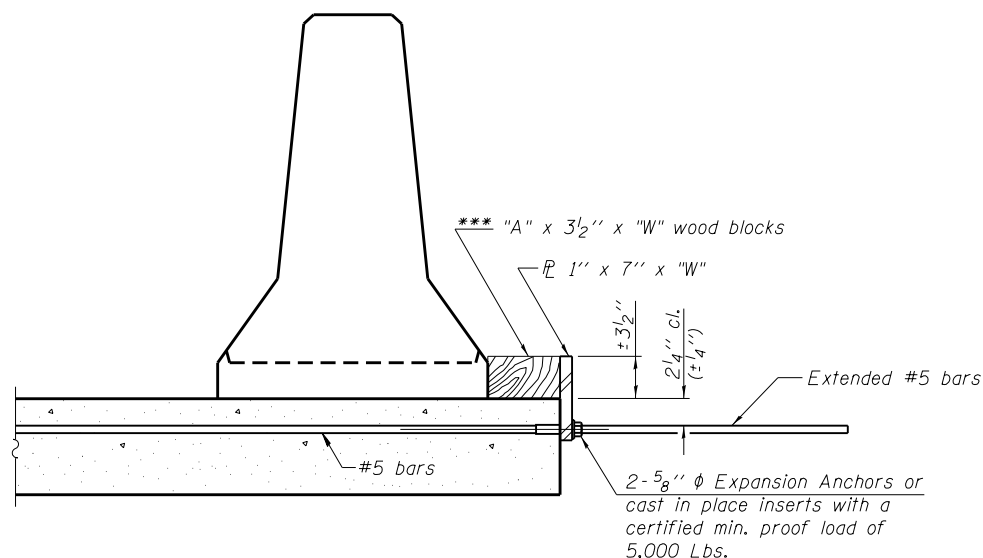
\* Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.  
 \*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



**RESTRAINING PIN**



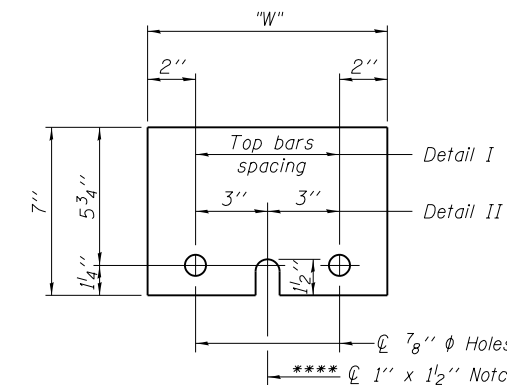
**DETAIL I**



**DETAIL II**

**RETAINER ASSEMBLY**

\*\*\* Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.



**STEEL RETAINER 1" x 7" x "W"**

\*\*\*\* Required only with Detail II

**NOTES**

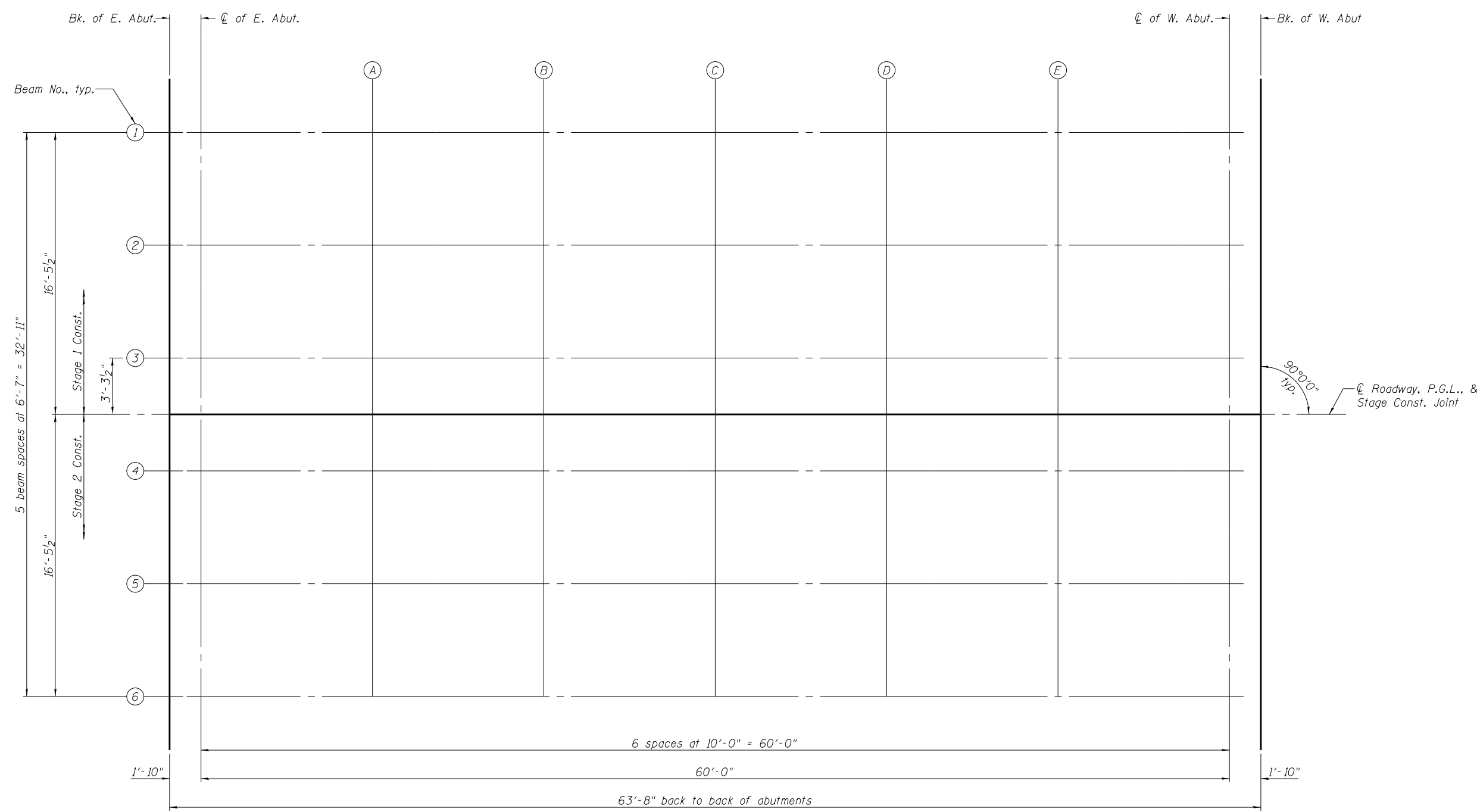
Detail I - With Bar Splicer or Couplers:  
 Connect one (1) 1" x 7" x "W" steel  $\mathcal{R}$  to the top layer of couplers with 2-5/8"  $\phi$  bolts screwed to coupler at approximate  $\mathcal{C}$  of each barrier panel.  
 Detail II - With Extended Reinforcement Bars:  
 Connect one (1) 1" x 7" x "W" steel  $\mathcal{R}$  to the concrete slab or concrete wearing surface with 2-5/8"  $\phi$  Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate  $\mathcal{C}$  of each barrier panel.  
 Cost of retainer assembly is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

R-27

2-19-16

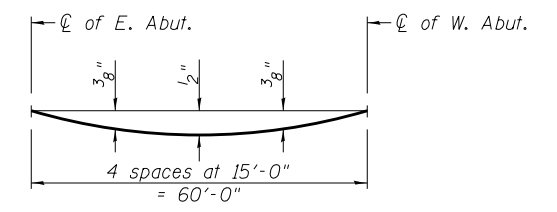
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F.A.P. RTE. 661	SECTION (8B)BR-1	COUNTY PEORIA	TOTAL SHEETS 71	SHEET NO. 27
<b>CONTRACT NO. 68668</b>				
ILLINOIS FED. AID PROJECT				

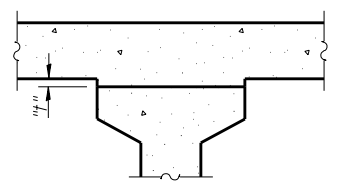


6 spaces at 10'-0" = 60'-0"  
60'-0"  
63'-8" back to back of abutments

**PLAN**



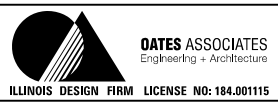
**DEAD LOAD DEFLECTION DIAGRAM ①**  
(Includes weight of concrete, excluding beams).



**FILLET HEIGHTS ②**

- Notes:
- ① The Dead Load Deflections are not to be used in the field if the Engineer is working from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" as shown on sheet 6 of 28.
  - ② To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet 6 of 28, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILE NAME = H:\P\29048\NO.12 SIN972-0247.IL 90 & 91 over Prince Creek Phase II PSE\Structural\Final Plans\Miscstation\0720247-68668-005-Top of Slab Elevations.dgn



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PLOT DATE = 11/28/2016	CHECKED - SJN	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 072-0247**

SHEET NO. 5 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	28
<b>CONTRACT NO. 68668</b>				
<small>ILLINOIS FED. AID PROJECT</small>				

**BEAM 1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of E. Abut.	535+30.17	-16.46	703.39	703.39
☉ of E. Abut.	535+32.00	-16.46	703.40	703.40
A	535+42.00	-16.46	703.44	703.46
B	535+52.00	-16.46	703.49	703.53
C	535+62.00	-16.46	703.55	703.60
D	535+72.00	-16.46	703.62	703.66
E	535+82.00	-16.46	703.70	703.72
☉ of W. Abut.	535+92.00	-16.46	703.78	703.78
Bk. of W. Abut.	535+93.83	-16.46	703.80	703.80

**BEAM 2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of E. Abut.	535+30.17	-9.88	703.52	703.52
☉ of E. Abut.	535+32.00	-9.88	703.52	703.52
A	535+42.00	-9.88	703.57	703.59
B	535+52.00	-9.88	703.62	703.66
C	535+62.00	-9.88	703.68	703.72
D	535+72.00	-9.88	703.75	703.79
E	535+82.00	-9.88	703.82	703.85
☉ of W. Abut.	535+92.00	-9.88	703.91	703.91
Bk. of W. Abut.	535+93.83	-9.88	703.93	703.93

**BEAM 3**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of E. Abut.	535+30.17	-3.29	703.62	703.62
☉ of E. Abut.	535+32.00	-3.29	703.63	703.63
A	535+42.00	-3.29	703.67	703.69
B	535+52.00	-3.29	703.72	703.76
C	535+62.00	-3.29	703.78	703.83
D	535+72.00	-3.29	703.85	703.89
E	535+82.00	-3.29	703.93	703.95
☉ of W. Abut.	535+92.00	-3.29	704.01	704.01
Bk. of W. Abut.	535+93.83	-3.29	704.03	704.03

**☉ ROADWAY, P.G.L., & STAGE CONST. JOINT**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of E. Abut.	535+30.17	0.00	703.67	703.67
☉ of E. Abut.	535+32.00	0.00	703.68	703.68
A	535+42.00	0.00	703.72	703.74
B	535+52.00	0.00	703.77	703.81
C	535+62.00	0.00	703.83	703.88
D	535+72.00	0.00	703.90	703.94
E	535+82.00	0.00	703.98	704.00
☉ of W. Abut.	535+92.00	0.00	704.06	704.06
Bk. of W. Abut.	535+93.83	0.00	704.08	704.08

**BEAM 4**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of E. Abut.	535+30.17	3.29	703.62	703.62
☉ of E. Abut.	535+32.00	3.29	703.63	703.63
A	535+42.00	3.29	703.67	703.69
B	535+52.00	3.29	703.72	703.76
C	535+62.00	3.29	703.78	703.83
D	535+72.00	3.29	703.85	703.89
E	535+82.00	3.29	703.93	703.95
☉ of W. Abut.	535+92.00	3.29	704.01	704.01
Bk. of W. Abut.	535+93.83	3.29	704.03	704.03

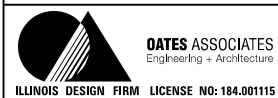
**BEAM 5**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of E. Abut.	535+30.17	9.88	703.52	703.52
☉ of E. Abut.	535+32.00	9.88	703.52	703.52
A	535+42.00	9.88	703.57	703.59
B	535+52.00	9.88	703.62	703.66
C	535+62.00	9.88	703.68	703.72
D	535+72.00	9.88	703.75	703.79
E	535+82.00	9.88	703.82	703.85
☉ of W. Abut.	535+92.00	9.88	703.91	703.91
Bk. of W. Abut.	535+93.83	9.88	703.93	703.93

**BEAM 6**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of E. Abut.	535+30.17	16.46	703.39	703.39
☉ of E. Abut.	535+32.00	16.46	703.40	703.40
A	535+42.00	16.46	703.44	703.46
B	535+52.00	16.46	703.49	703.53
C	535+62.00	16.46	703.55	703.60
D	535+72.00	16.46	703.62	703.66
E	535+82.00	16.46	703.70	703.72
☉ of W. Abut.	535+92.00	16.46	703.78	703.78
Bk. of W. Abut.	535+93.83	16.46	703.80	703.80

FILE NAME = H:\P\29048\NO.12 SIGN72-0247.IL.90 & 91 over Prince Creek Phase II PSE\Structural\Final Plans\Miscstation\0720247-68668-005-Top of Slab Elevations.dgn



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PLOT DATE = 11/28/2016	CHECKED - SJN	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 072-0247**

SHEET NO. 6 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	29
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				

**SOUTH EDGE OF SHOULDER**

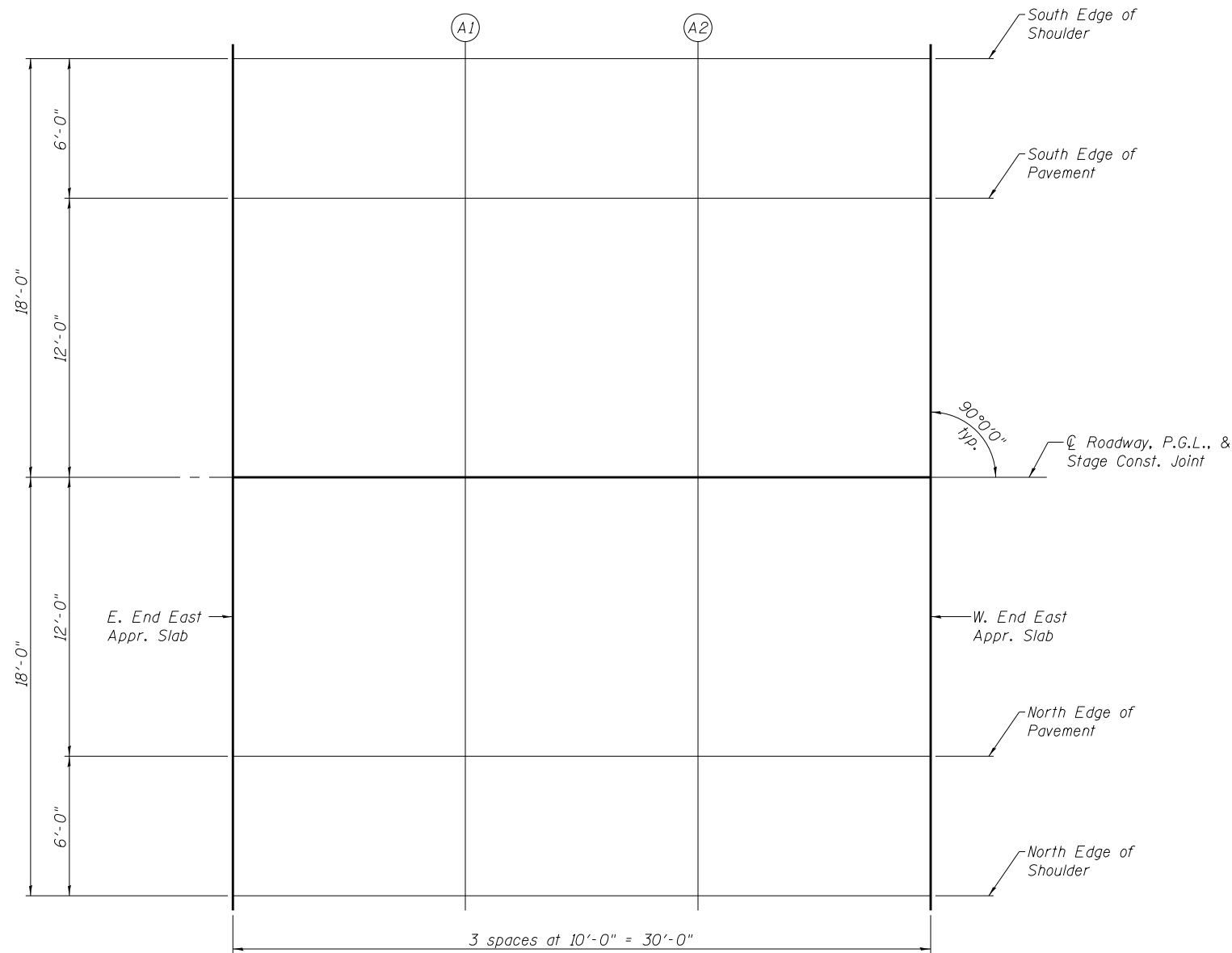
Location	Station	Offset	Theoretical Grade Elevations
E. End East Appr. Slab	535+01.17	-18.00	703.29
A1	535+11.17	-18.00	703.30
A2	535+21.17	-18.00	703.33
W. End East Appr. Slab	535+31.17	-18.00	703.36

**SOUTH EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations
E. End East Appr. Slab	535+01.17	-12.00	703.41
A1	535+11.17	-12.00	703.43
A2	535+21.17	-12.00	703.45
W. End East Appr. Slab	535+31.17	-12.00	703.49

**☉ ROADWAY, P.G.L., & STAGE CONST. JOINT**

Location	Station	Offset	Theoretical Grade Elevations
E. End East Appr. Slab	535+01.17	0.00	703.60
A1	535+11.17	0.00	703.62
A2	535+21.17	0.00	703.64
W. End East Appr. Slab	535+31.17	0.00	703.68



**PLAN**

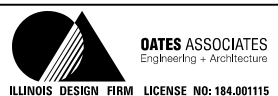
**NORTH EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations
E. End East Appr. Slab	535+01.17	12.00	703.41
A1	535+11.17	12.00	703.43
A2	535+21.17	12.00	703.45
W. End East Appr. Slab	535+31.17	12.00	703.49

**NORTH EDGE OF SHOULDER**

Location	Station	Offset	Theoretical Grade Elevations
E. End East Appr. Slab	535+01.17	18.00	703.29
A1	535+11.17	18.00	703.30
A2	535+21.17	18.00	703.33
W. End East Appr. Slab	535+31.17	18.00	703.36

FILE NAME = H:\P\29048\WD 12 SING72-0247.IL 90 & 91 over Prince Creek Phase II PSE\Structural\Final Plans\Microstation\0720247-66666-007-Top of East Approach Slab Elevations.dgn



USER NAME =	DESIGNED - KBC	REVISED -
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PLOT SCALE =	DRAWN - KBC	REVISED -
PLOT DATE = 11/28/2016	CHECKED - SJN	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF EAST APPROACH SLAB ELEVATIONS  
STRUCTURE NO. 072-0247**

SHEET NO. 7 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	30
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				

SOUTH EDGE OF SHOULDER

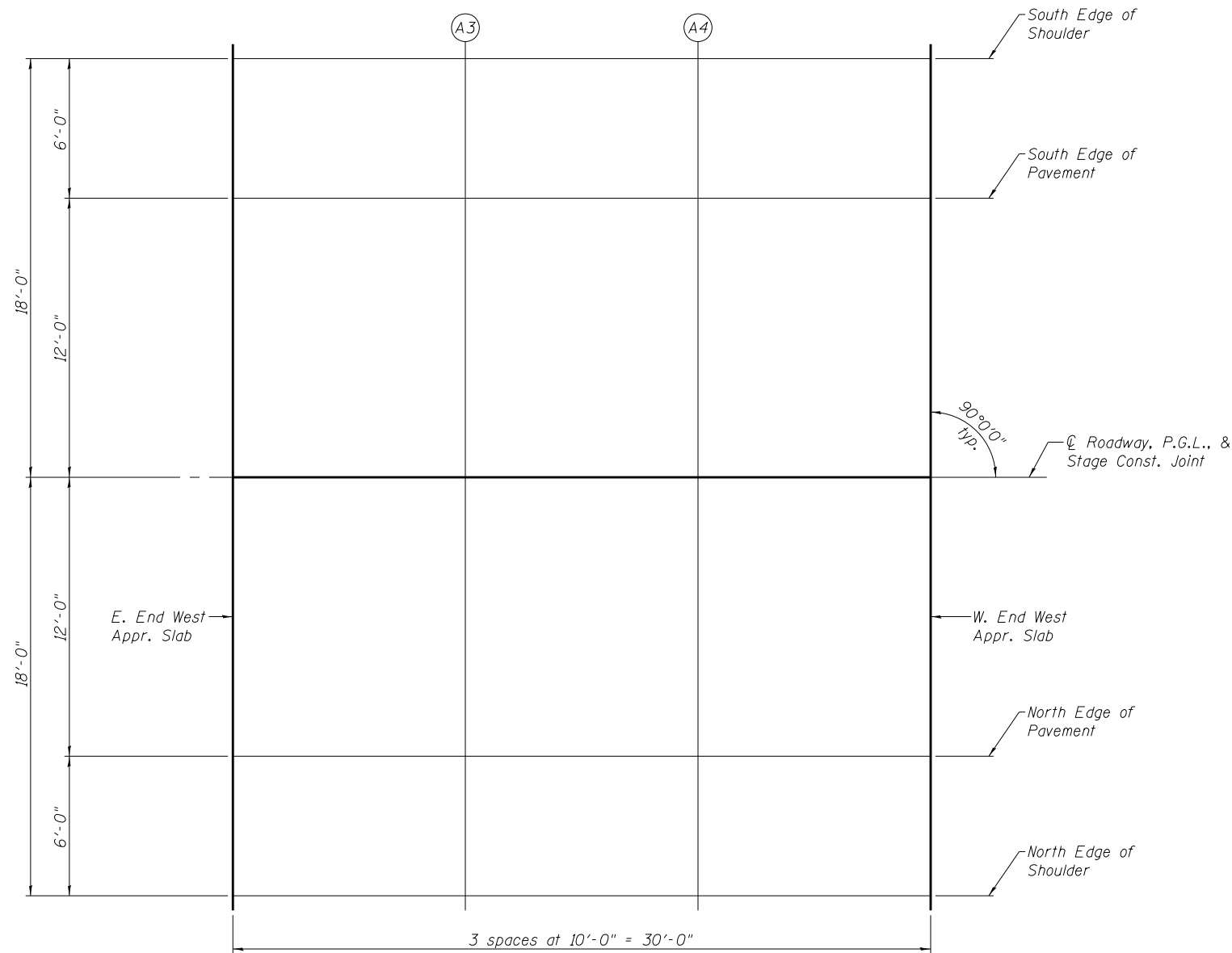
Location	Station	Offset	Theoretical Grade Elevations
E. End West Appr. Slab	535+92.83	-18.00	703.76
A3	536+02.83	-18.00	703.85
A4	536+12.83	-18.00	703.96
W. End West Appr. Slab	536+22.83	-18.00	704.07

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
E. End West Appr. Slab	535+92.83	-12.00	703.88
A3	536+02.83	-12.00	703.98
A4	536+12.83	-12.00	704.08
W. End West Appr. Slab	536+22.83	-12.00	704.20

☉ ROADWAY, P.G.L., & STAGE CONST. JOINT

Location	Station	Offset	Theoretical Grade Elevations
E. End West Appr. Slab	535+92.83	0.00	704.07
A3	536+02.83	0.00	704.17
A4	536+12.83	0.00	704.27
W. End West Appr. Slab	536+22.83	0.00	704.38



PLAN

NORTH EDGE OF PAVEMENT

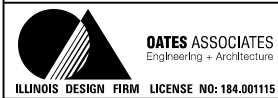
Location	Station	Offset	Theoretical Grade Elevations
E. End West Appr. Slab	535+92.83	12.00	703.88
A3	536+02.83	12.00	703.98
A4	536+12.83	12.00	704.08
W. End West Appr. Slab	536+22.83	12.00	704.20

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
E. End West Appr. Slab	535+92.83	18.00	703.76
A3	536+02.83	18.00	703.85
A4	536+12.83	18.00	703.96
W. End West Appr. Slab	536+22.83	18.00	704.07



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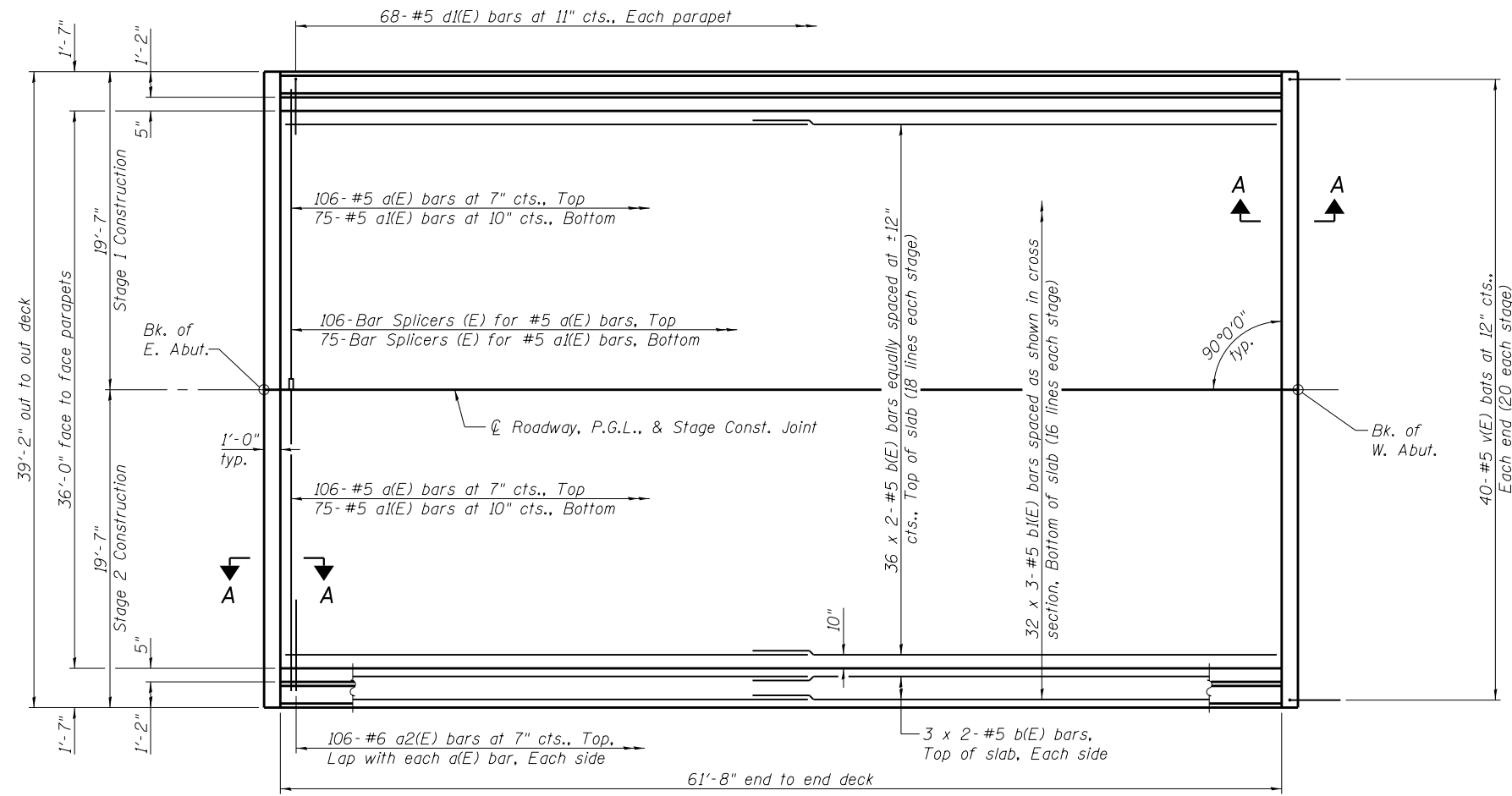
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PLOT DATE = 11/28/2016	CHECKED - SJN	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF WEST APPROACH SLAB ELEVATIONS  
STRUCTURE NO. 072-0247**

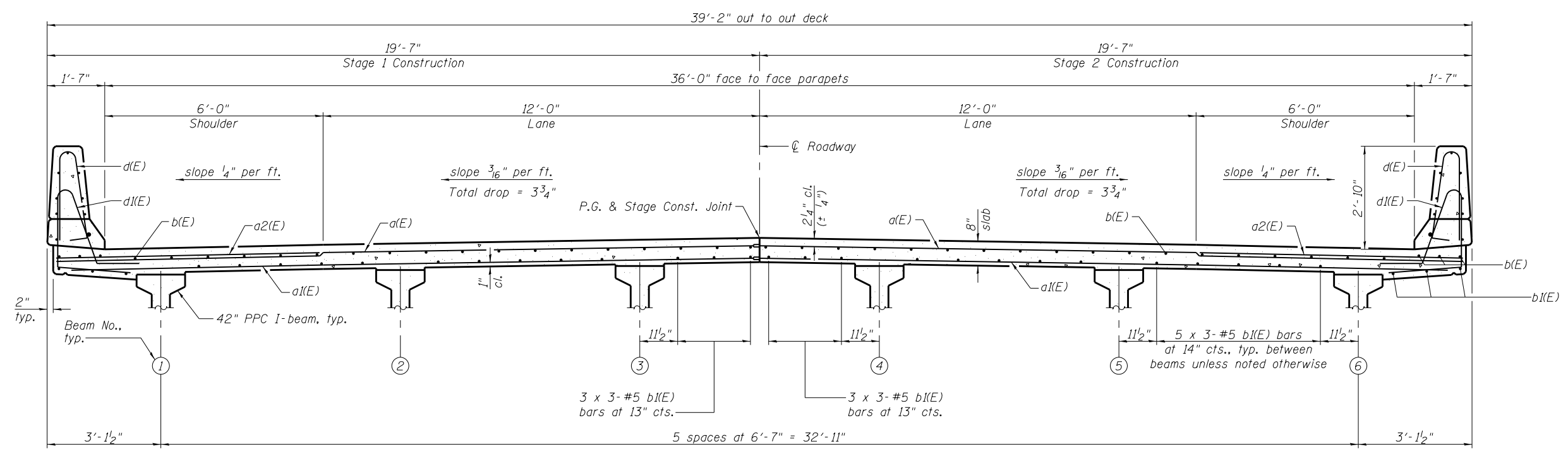
SHEET NO. 8 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	31
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				



**PLAN**

- Notes:
- ① For Section A-A, see sheet 11 of 28.
  - ② For superstructure details, bar details, parapet reinforcement, and Bill of Material, see sheet 10 of 28.
  - ③ Bars indicated thus 36 x 2-#5 etc. indicates 36 lines of bars with 2 lengths per line.
  - ④ For details of Bar Splicers, see sheet 20 of 28.



**CROSS SECTION**  
(Looking West)

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

FILE NAME = H:\P\29048\NO. 12 SIGN\72-0247.IL 90 & 91 over Prince Creek Phase II PSE\Structure\0720247-68668-009-Superstructure.dgn



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PLOT DATE = 11/28/2016	DRAWN - KBC	REVISD -
	CHECKED - SJN	REVISD -

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

**SUPERSTRUCTURE**  
**STRUCTURE NO. 072-0247**  
SHEET NO. 9 OF 28 SHEETS

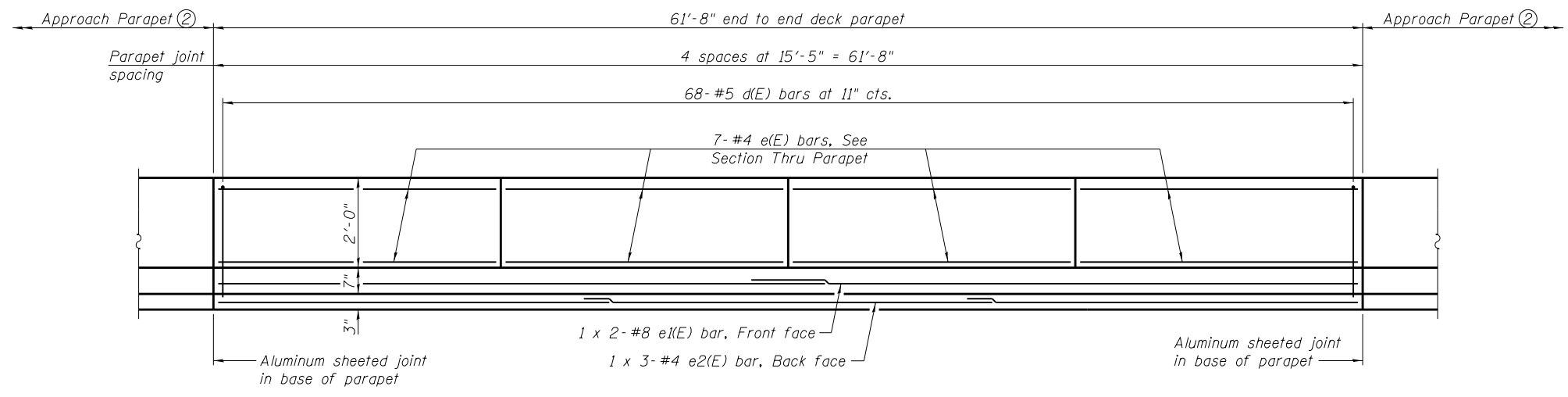
F.A.P. RTE. 661	SECTION (8B)BR-1	COUNTY PEORIA	TOTAL SHEETS 71	SHEET NO. 32
CONTRACT NO. 68668				

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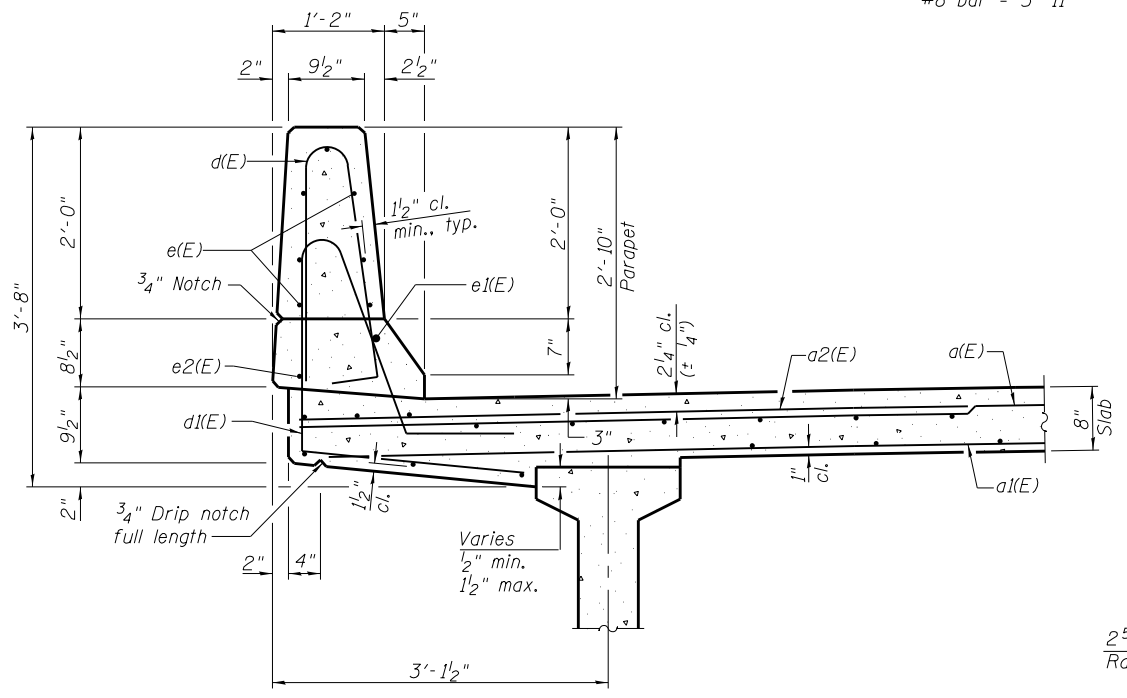
**SUPERSTRUCTURE  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	212	#5	19'-1"	—
a1(E)	150	#5	18'-9"	—
a2(E)	212	#6	6'-6"	—
b(E)	84	#5	32'-5"	—
b1(E)	96	#5	22'-10"	—
d(E)	136	#5	5'-7"	⏏
d1(E)	136	#5	7'-8"	⏏
e(E)	56	#4	15'-1"	—
e1(E)	4	#8	33'-8"	—
e2(E)	6	#4	22'-3"	—
m(E)	20	#6	19'-3"	—
m1(E)	24	#6	5'-9"	—
m2(E)	12	#6	2'-6"	—
m3(E)	8	#6	4'-5"	—
m4(E)	4	#6	1'-10"	—
m5(E)	24	#5	4'-0"	—
s(E)	72	#5	8'-3"	⏏
s1(E)	72	#5	11'-4"	⏏
v(E)	80	#5	3'-1"	⏏
Concrete Superstructure		Cu. Yd.	110.6	
Reinforcement Bars, Epoxy Coated		Pound	19,960	

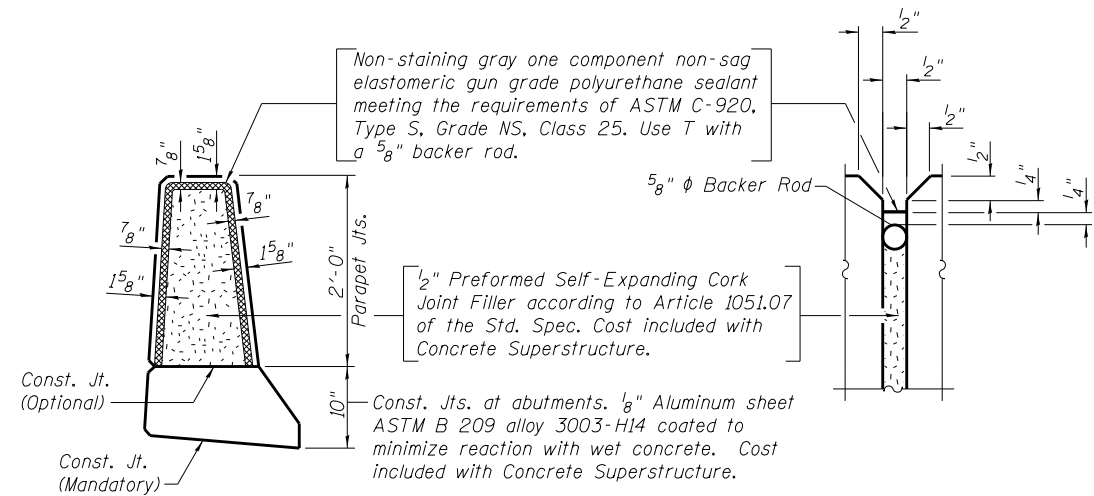


**INSIDE ELEVATION OF PARAPET**

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

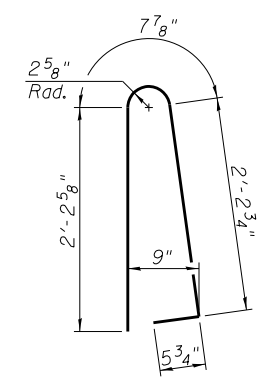


**SECTION THRU PARAPET**

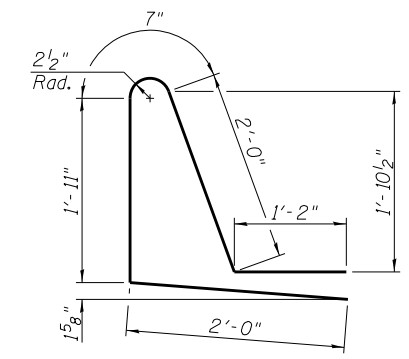


**PARAPET JOINT DETAILS**

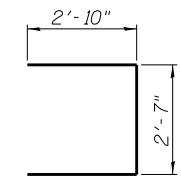
Notes:  
① Bars indicated thus 1 x 3-#4 etc. indicates 1 line of bars with 3 lengths per line.  
② For Approach Parapet details, see sheet 13 of 28.



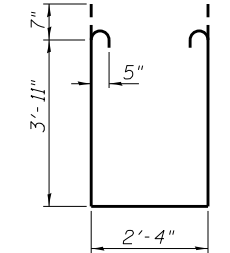
**BAR d(E)**



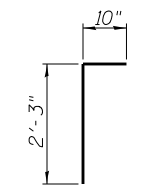
**BAR d1(E)**



**BAR s(E)**



**BAR s1(E)**



**BAR v(E)**

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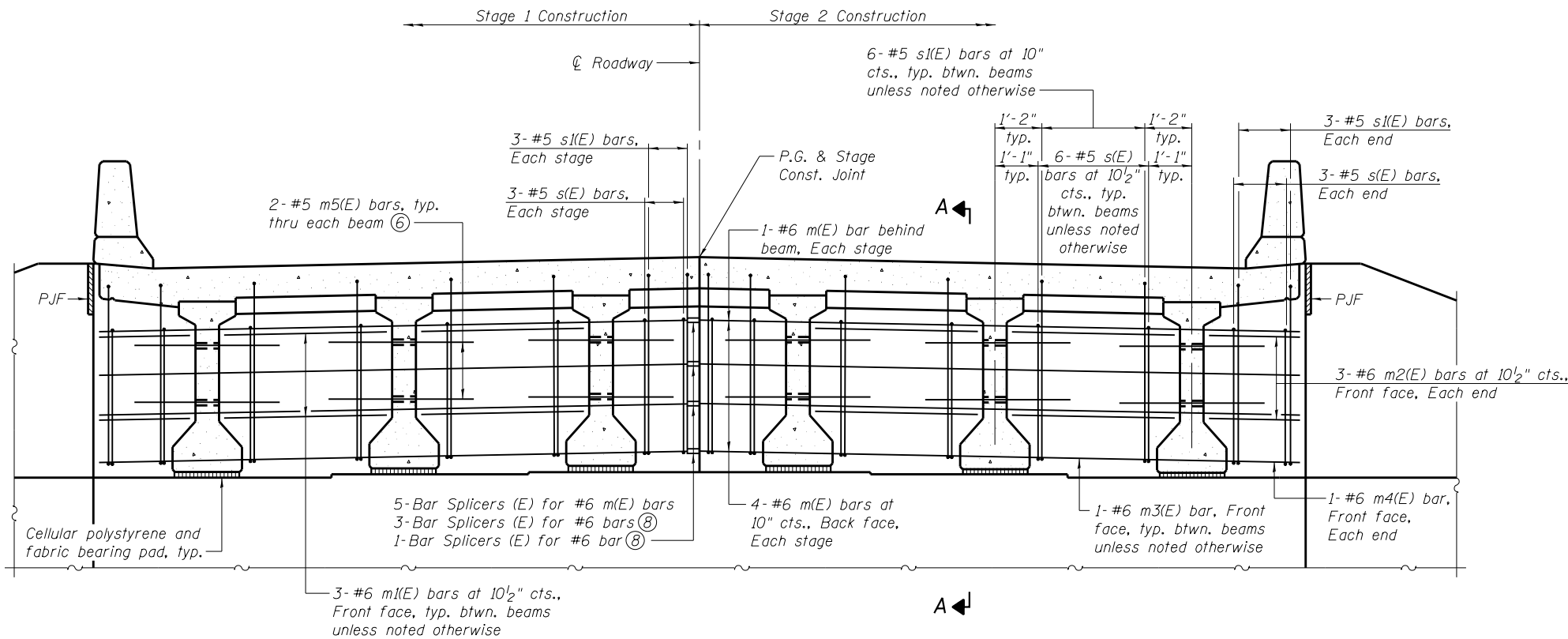
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS  
STRUCTURE NO. 072-0247**

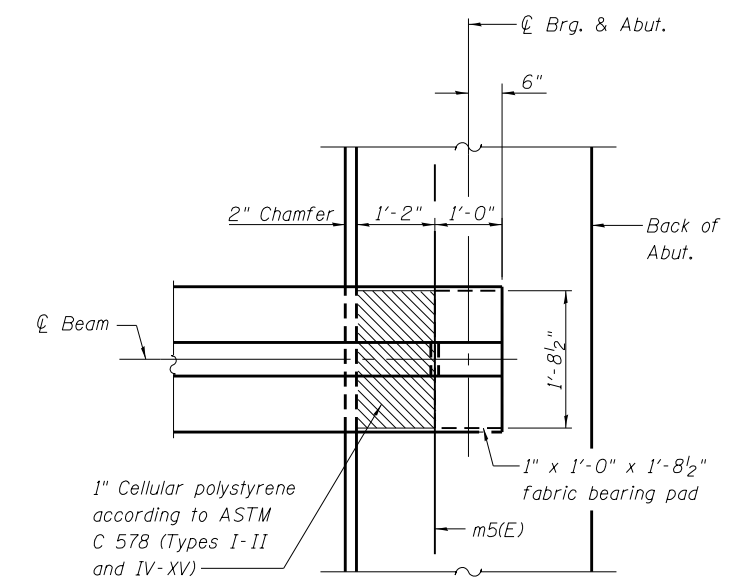
F.A.P. RTE. 661	SECTION (8B)BR-1	COUNTY PEORIA	TOTAL SHEETS 71	SHEET NO. 33
CONTRACT NO. 68668				

SHEET NO. 10 OF 28 SHEETS

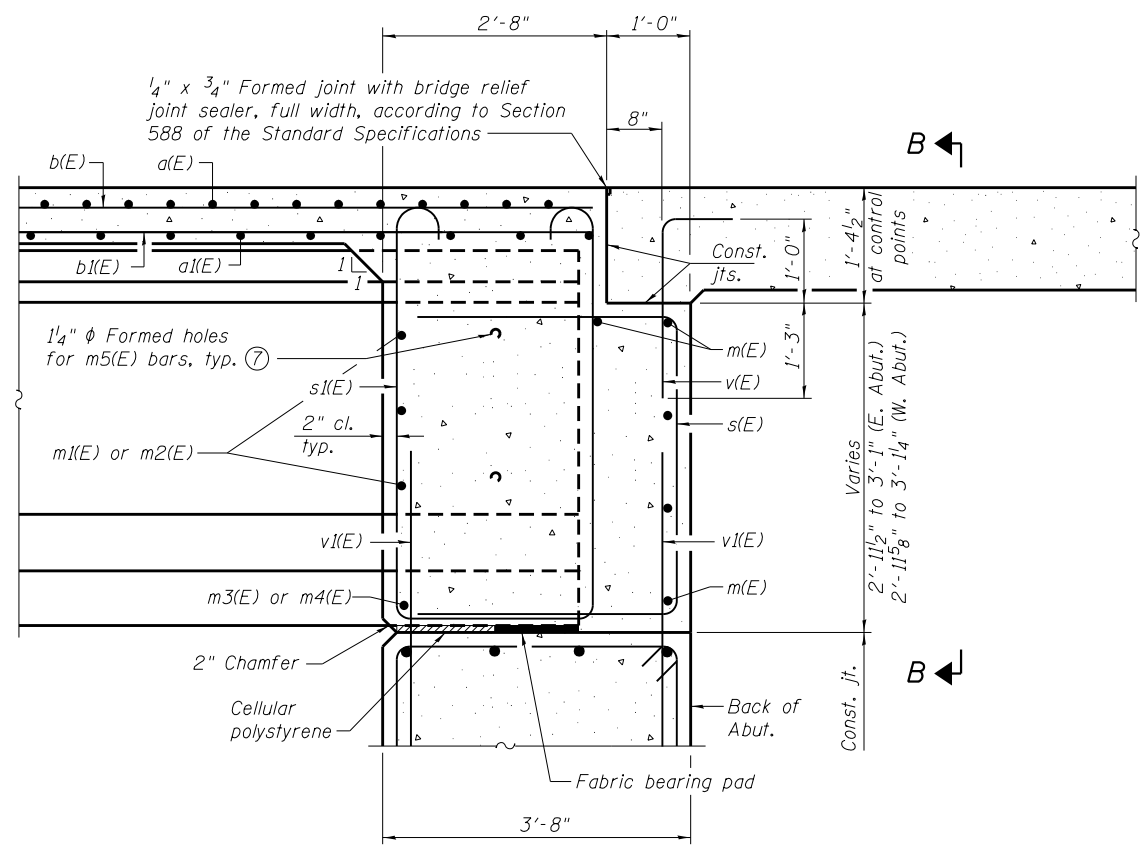
ILLINOIS FED. AID PROJECT



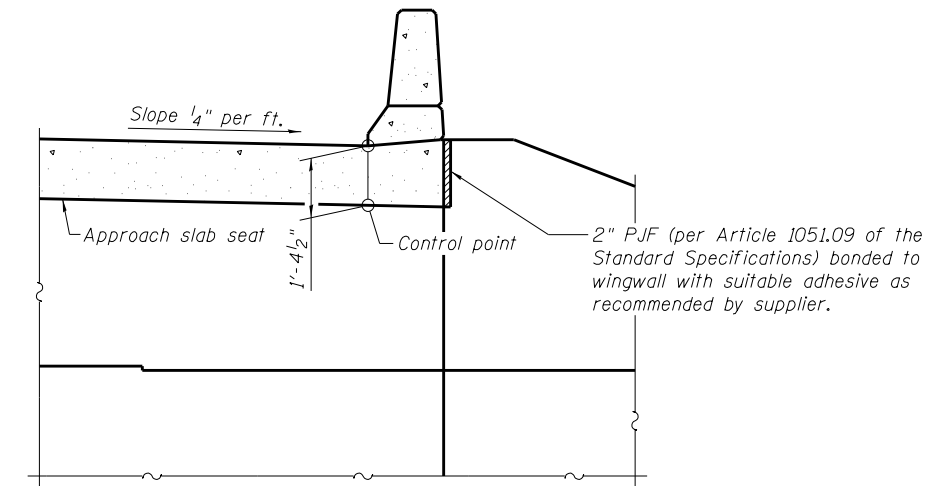
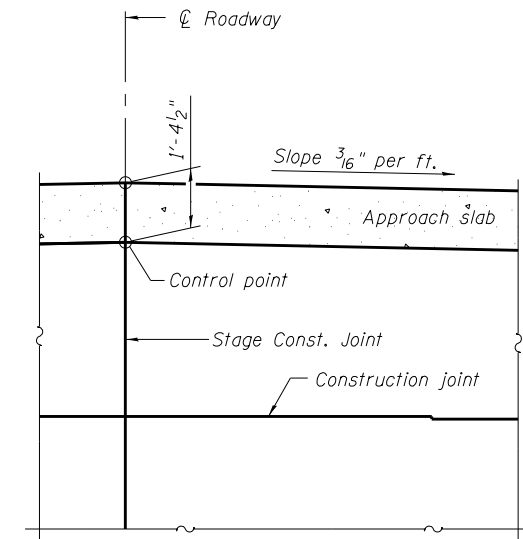
**DIAPHRAGM ELEVATION AT ABUTMENT**  
(Looking West)



**PARTIAL PLAN AT ABUTMENT**  
(Showing bottom flange of beam)



**SECTION A-A**



**SECTION B-B**

**CONTROL POINT ELEVATIONS ⑩**

	South Parapet	Cl Roadway	North Parapet
E. Abut.	701.98	702.30	701.98
W. Abut.	702.39	702.71	702.39

- Notes:
- Reinforcement bars in diaphragm are billed with superstructure on sheet 10 of 28.
  - Concrete in diaphragm is included with Concrete Superstructure on sheet 10 of 28.
  - For details of bars s(E), s(E) and v(E), see sheet 10 of 28.
  - The approach slab seat shall have a constant slope determined from the control points shown.
  - Cost of cellular polystyrene is included with Concrete Superstructure.
  - Secure bars such that they remain centered and level during pouring of the concrete.
  - For hole locations, see sheet 15 of 28.
  - Use Bar Splicers in place of m(E) and m3(E) bars between beam and stage construction joint. Cut Bar Splicers as required to provide adequate clearance to beam.
  - For details of Bar Splicers, see sheet 20 of 28.
  - Control point elevations are taken at top of approach slab seat as shown in Section B-B.

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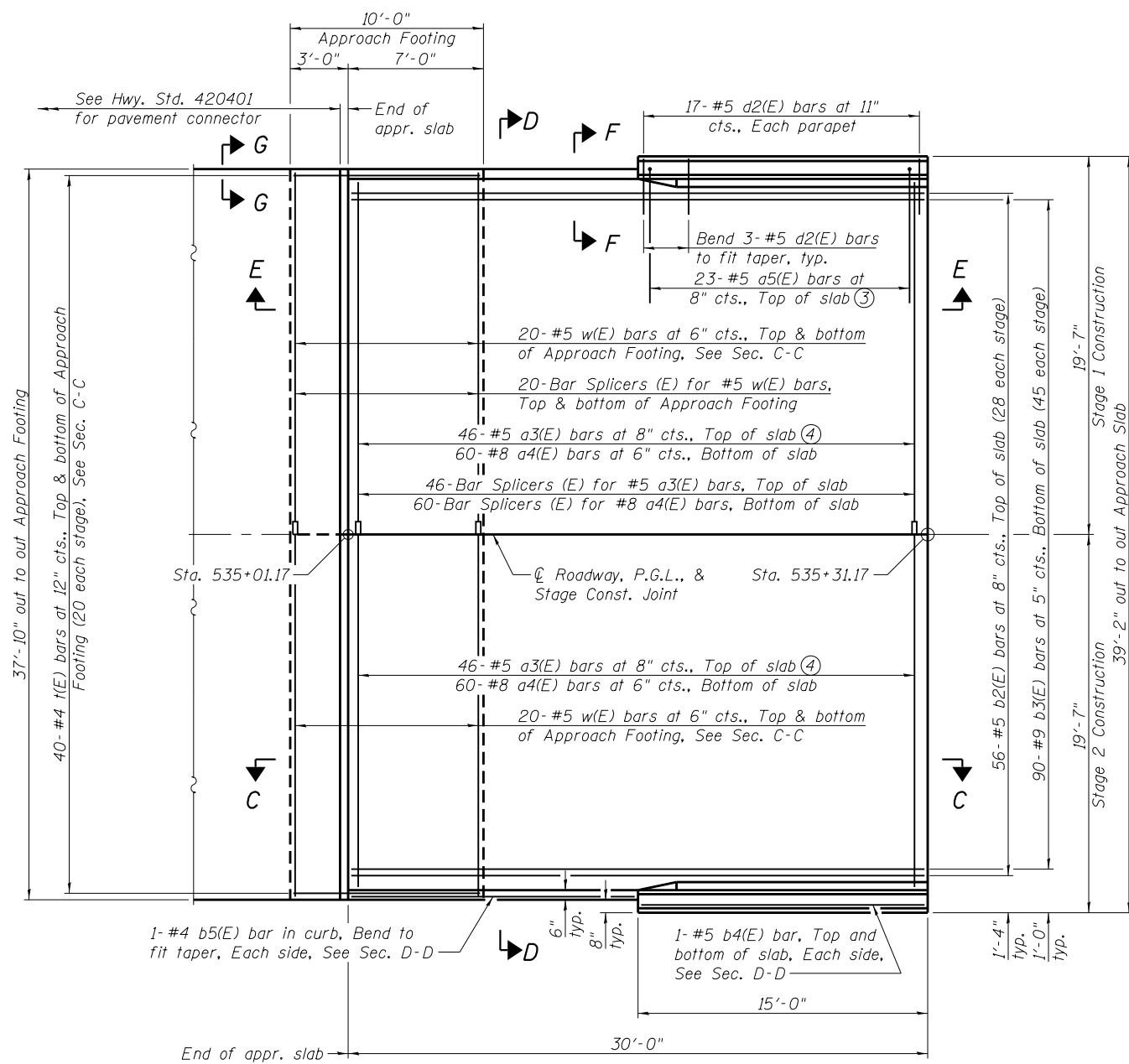
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DIAPHRAGM DETAILS  
STRUCTURE NO. 072-0247**

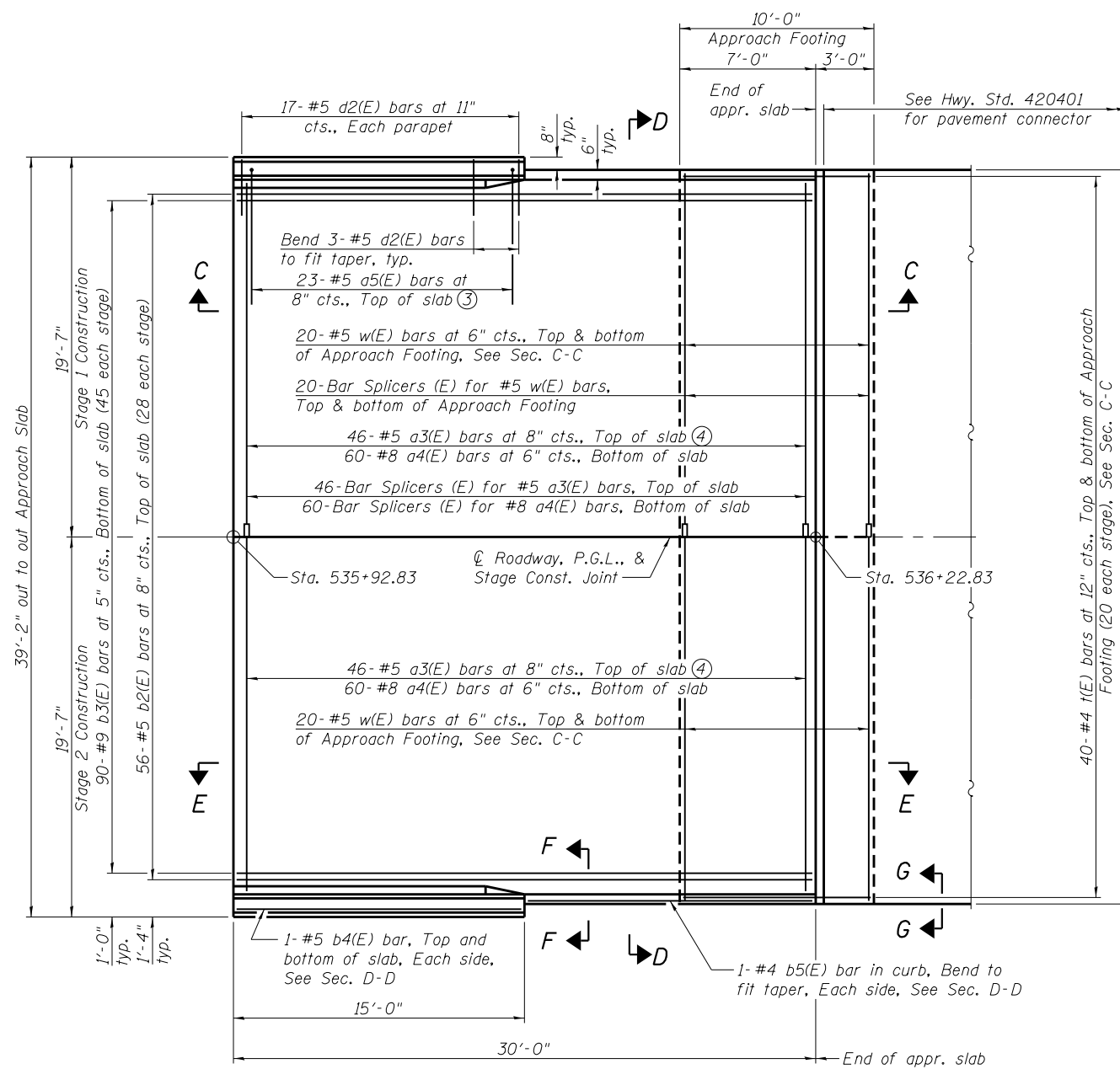
SHEET NO. 11 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	34
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				

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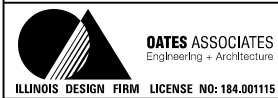


**EAST APPROACH PLAN**



**WEST APPROACH PLAN**

- Notes:
- ① For Sections C-C & D-D and Views E-E, F-F, & G-G, see sheet 13 of 28.
  - ② For details of Bar Splicers, see sheet 20 of 28.
  - ③ Lap with each a3(E) bar, each parapet.
  - ④ Tilt as necessary to fit curb.



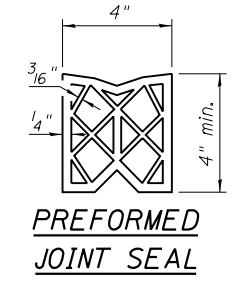
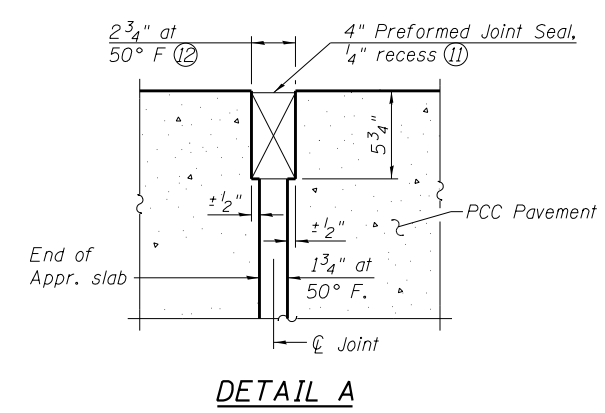
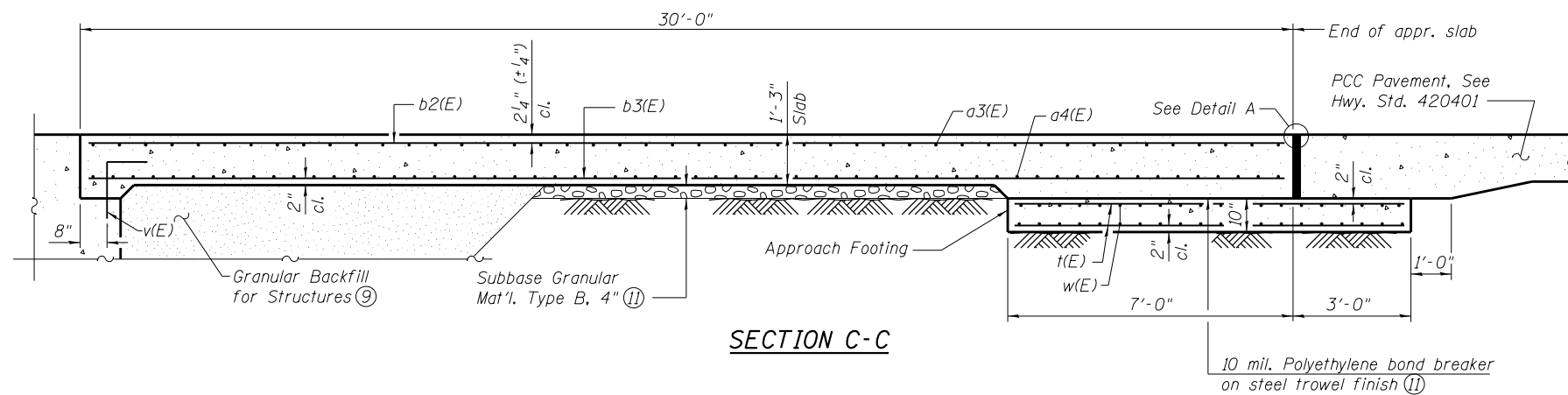
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 072-0247**

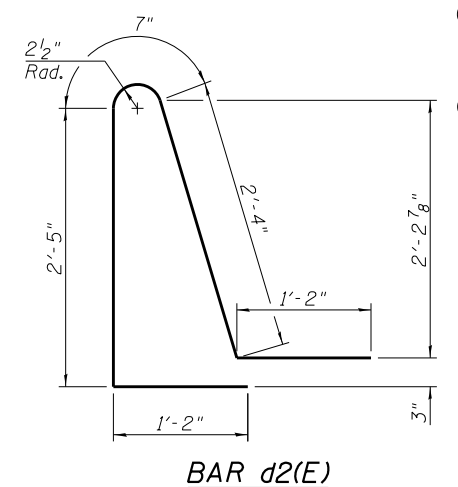
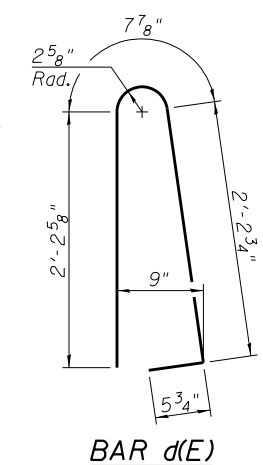
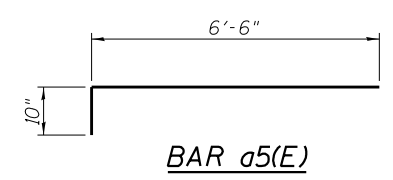
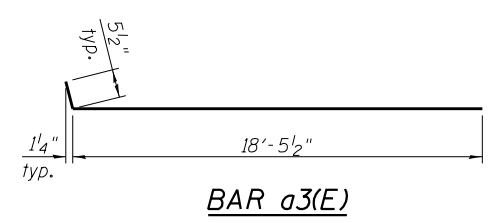
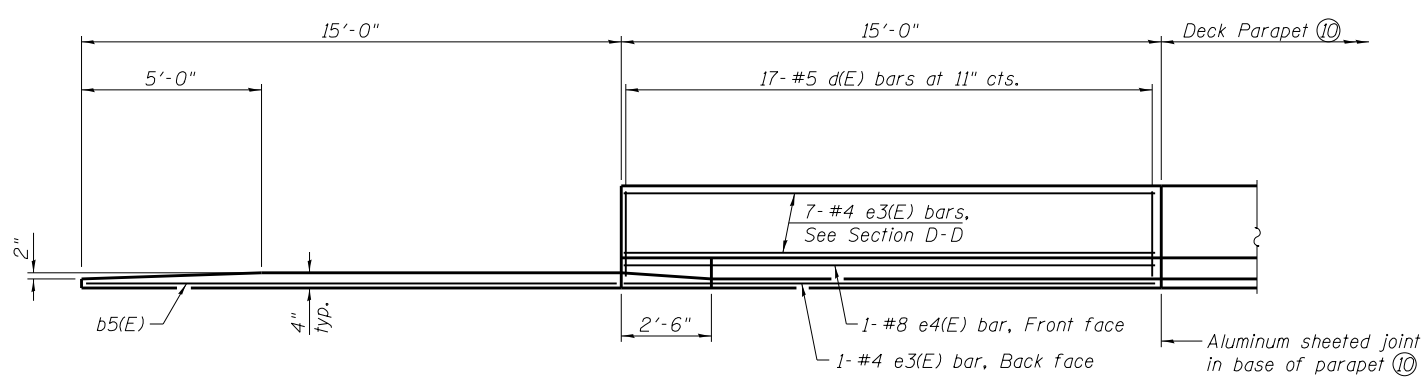
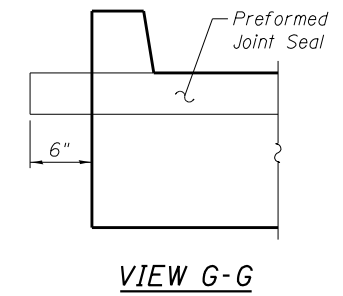
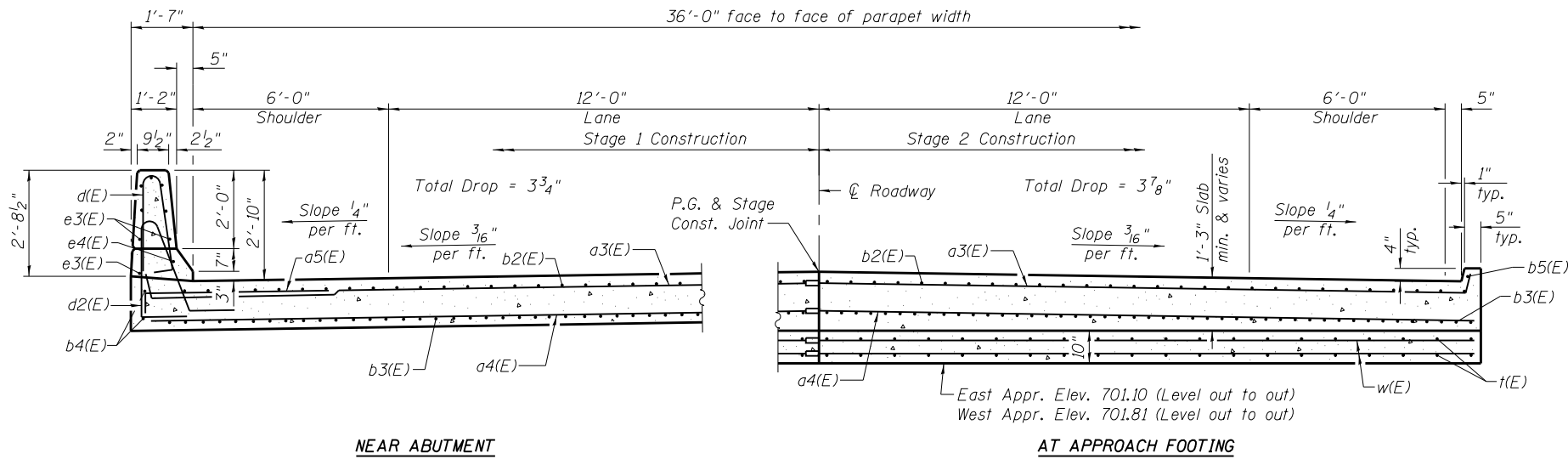
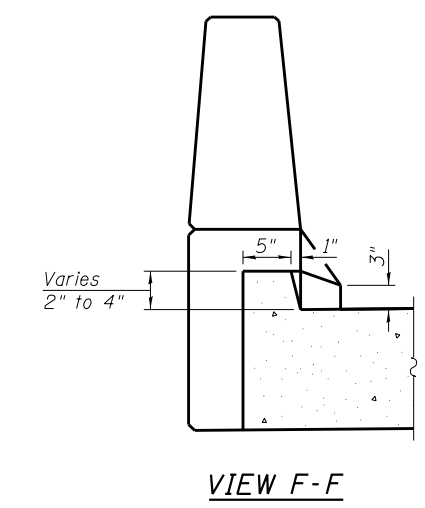
SHEET NO. 12 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	35
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				



**TWO APPROACHES  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a3(E)	184	#5	18'-11"	—
a4(E)	240	#8	18'-7"	—
a5(E)	92	#5	7'-4"	—
b2(E)	112	#5	29'-8"	—
b3(E)	180	#9	29'-8"	—
b4(E)	8	#5	14'-8"	—
b5(E)	4	#4	14'-8"	—
d(E)	68	#5	5'-7"	▲
d2(E)	68	#5	7'-8"	▲
e3(E)	32	#4	14'-8"	—
e4(E)	4	#8	14'-8"	—
t(E)	160	#4	9'-8"	—
w(E)	160	#5	18'-7"	—
Concrete Structures		Cu. Yd.	23.4	
Concrete Superstructure		Cu. Yd.	6.7	
Concrete Superstructure (Approach Slab)		Cu. Yd.	113.4	
Reinforcement Bars, Epoxy Coated		Pound	43,570	



- Notes:
- Parapet 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.
  - Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
  - For v(E) bar details, see sheet 10 of 28.
  - The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
  - For details of Bar Splicers, see sheet 20 of 28.
  - Cost of excavation for approach footing included with Concrete Structures.
  - For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 28.
  - For additional parapet details and parapet joint details, see sheet 10 of 28.
  - Cost included with Concrete Superstructure (Approach Slab).
  - The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be 1 1/2" for installation purposes.
  - Calculated weight of Reinforcement Bars, Epoxy Coated = 39,440 (Superstructure) 4,130 (Substructure)

FILE NAME = H:\P\29048\NO.12.SIN972-0247.IL.90 & 91.Over Prince Creek Phase II PSE\Structural\Final Plans\Miscstation\0720247-66666-013-Bridge Approach Slab Details.dgn



USER NAME =	DESIGNED - KBC	REVISED -
PLOT SCALE =	CHECKED - SJN	REVISED -
PLOT DATE = 11/28/2016	DRAWN - KBC	REVISED -
	CHECKED - SJN	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 072-0247**

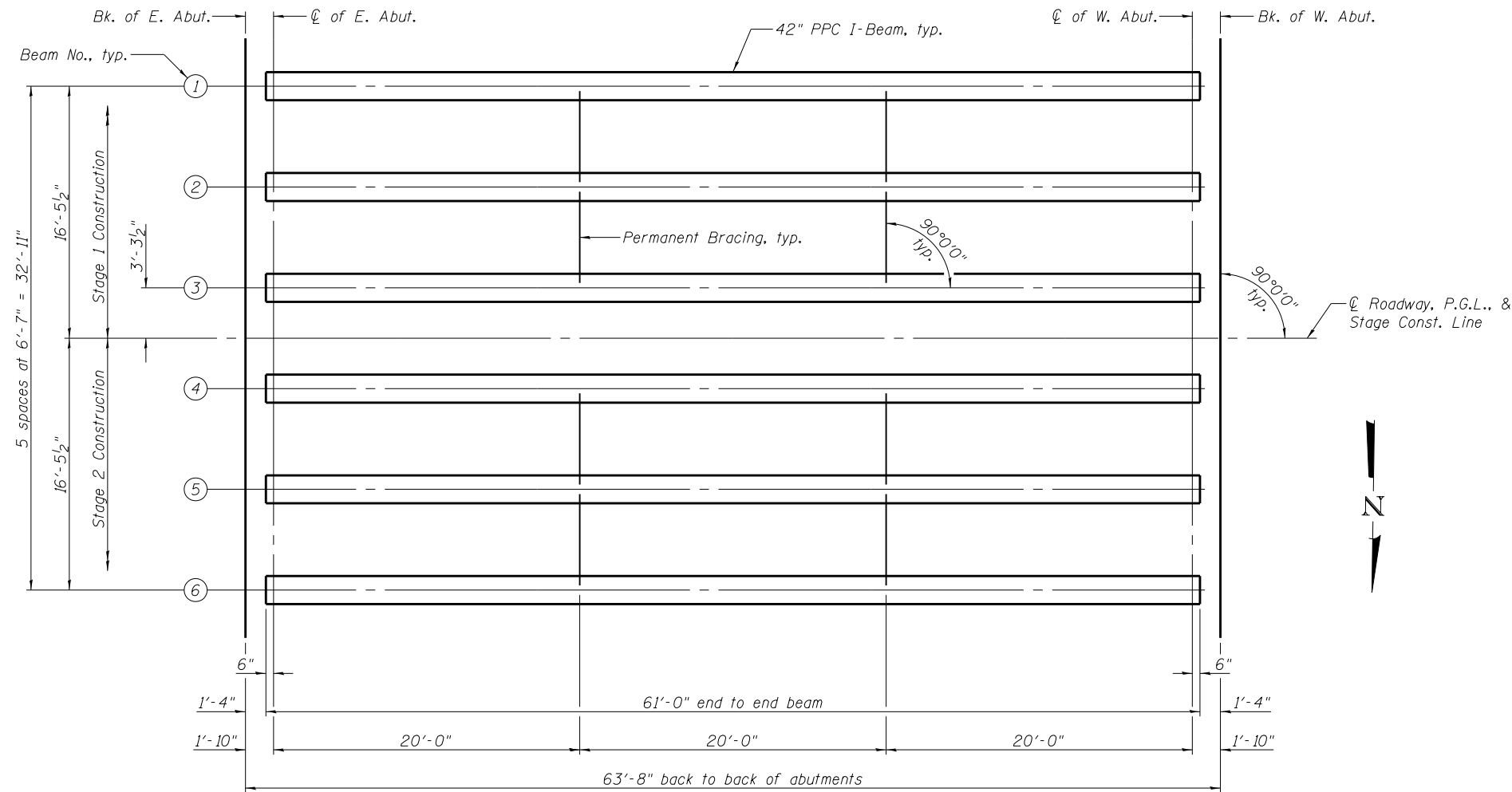
F.A.P. RTE. 661	SECTION (8B)BR-1	COUNTY PEORIA	TOTAL SHEETS 71	SHEET NO. 36
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				

**INTERIOR BEAM MOMENT TABLE**

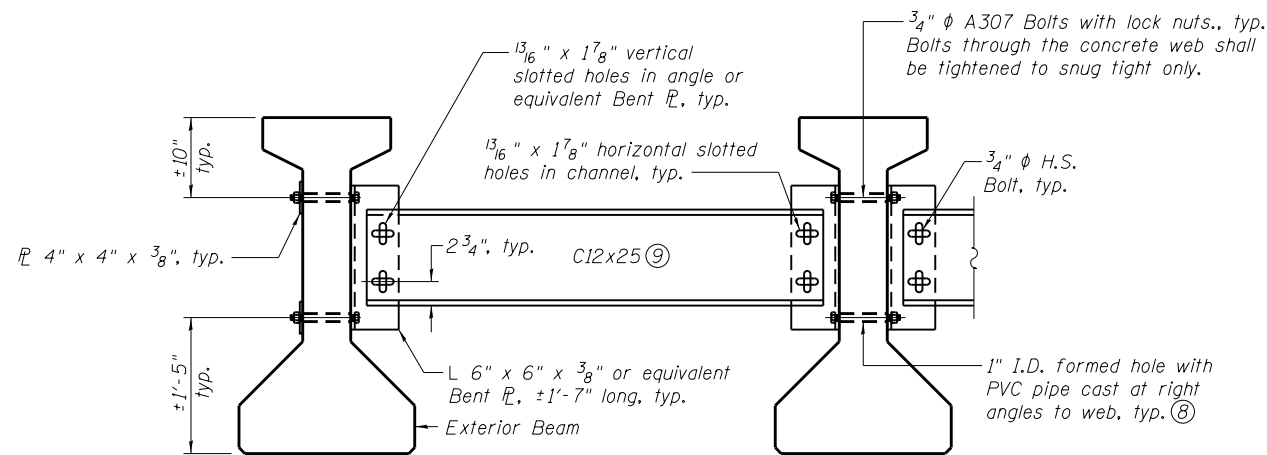
		0.5 Span
$I$	(in <sup>4</sup> )	90,956
$I'$	(in <sup>4</sup> )	290,163
$S_b$	(in <sup>3</sup> )	5,153
$S_b'$	(in <sup>3</sup> )	8,909
$S_t$	(in <sup>3</sup> )	3,736
$S_t'$	(in <sup>3</sup> )	30,770
$DC1$	(k/ft)	1.157
$M_{DC1}$	(k)	519.9
$DC2$	(k/ft)	0.150
$M_{DC2}$	(k)	67.4
$DW$	(k/ft)	0.300
$M_{DW}$	(k)	134.8
$M_L + IM$	(k)	833.9

**INTERIOR BEAM REACTION TABLE**

		Abut.
$R_{DC1}$	(k)	34.7
$R_{DC2}$	(k)	4.5
$R_{DW}$	(k)	9.0
$R_L + IM$	(k)	71.3
$R_{Total}$	(k)	119.5



**PLAN**



**PERMANENT BRACING DETAILS**  
(8 Required)

- I*: Non-composite moment of inertia of beam section (in<sup>4</sup>).  
*I'*: Composite moment of inertia of beam section (in<sup>4</sup>).  
*S<sub>b</sub>*: Non-composite section modulus for the bottom fiber of the prestressed beam (in<sup>3</sup>).  
*S<sub>b</sub>'*: Composite section modulus for the bottom fiber of the prestressed beam (in<sup>3</sup>).  
*S<sub>t</sub>*: Non-composite section modulus for the top fiber of the prestressed beam (in<sup>3</sup>).  
*S<sub>t</sub>'*: Composite section modulus for the top fiber of the prestressed beam (in<sup>3</sup>).  
*DC1*: Un-factored non-composite dead load (kips/ft.).  
*M<sub>DC1</sub>*: 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.).  
*M<sub>DC2</sub>*: 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.).  
*M<sub>DW</sub>*: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).  
*M<sub>L + IM</sub>*: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

**Notes:**

- All material for bracing shall be hot dipped galvanized according to AASHTO M111 unless otherwise noted.
- Two hardened washers are required for each set of oversized holes.
- All holes shall be 15/16" φ unless otherwise noted.
- 5/16" x 3" x 3" plate washers are required over all slotted holes.
- All bolts shall be galvanized according to AASHTO M232.
- Bracing shall be installed as soon as beams are erected and tightened as soon as possible during erection.
- Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete I-Beams, 42 in.
- Fabricator shall locate to miss strands within permissible tolerances.
- Alternate C12x30 channels are permitted to facilitate material acquisition.

FILE NAME = H:\P\29048\NO.12\_SIN972-0247.IL\_90 & 91 over Prince Creek Phase II PSE\Structural\Final Plans\Miscstation\0720247-66666-014-Framing Plan.dgn



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PLOT DATE = 11/28/2016	DRAWN - KBC	REVISED -
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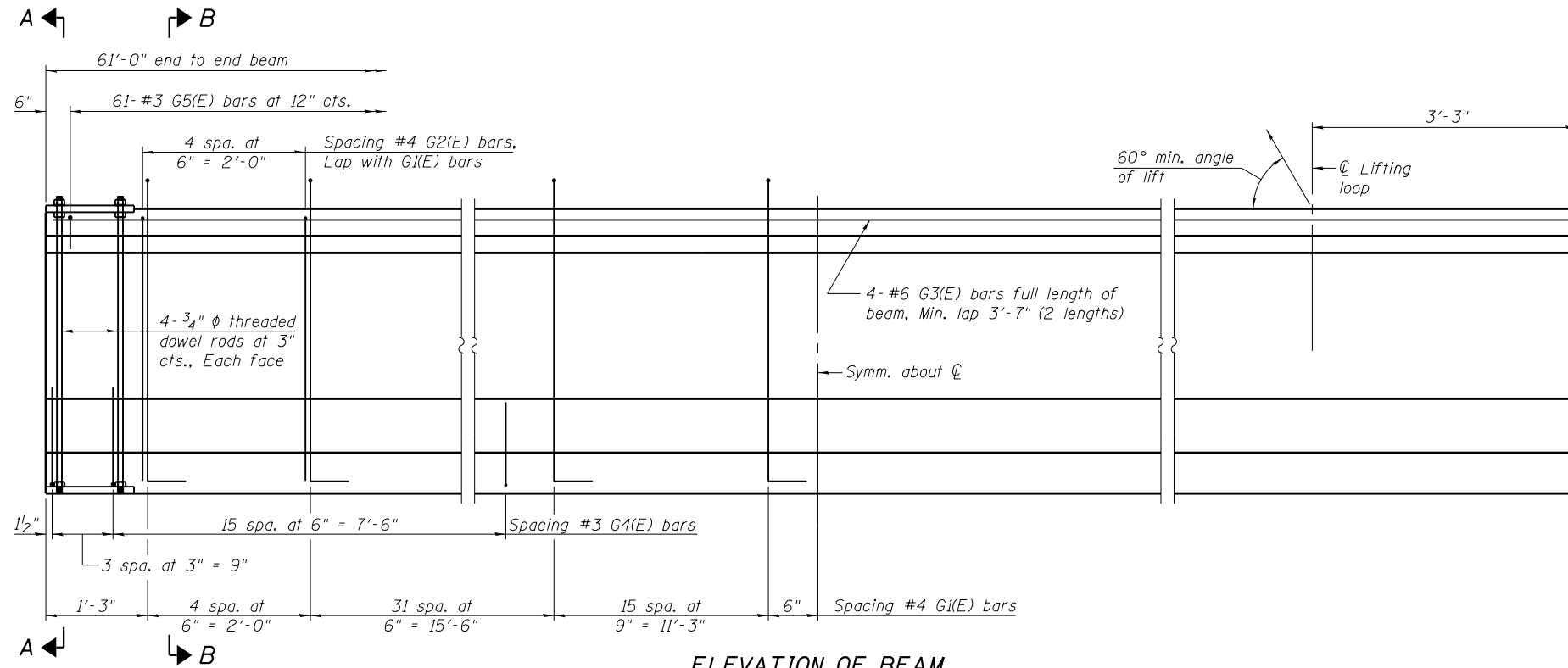
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN  
STRUCTURE NO. 072-0247**

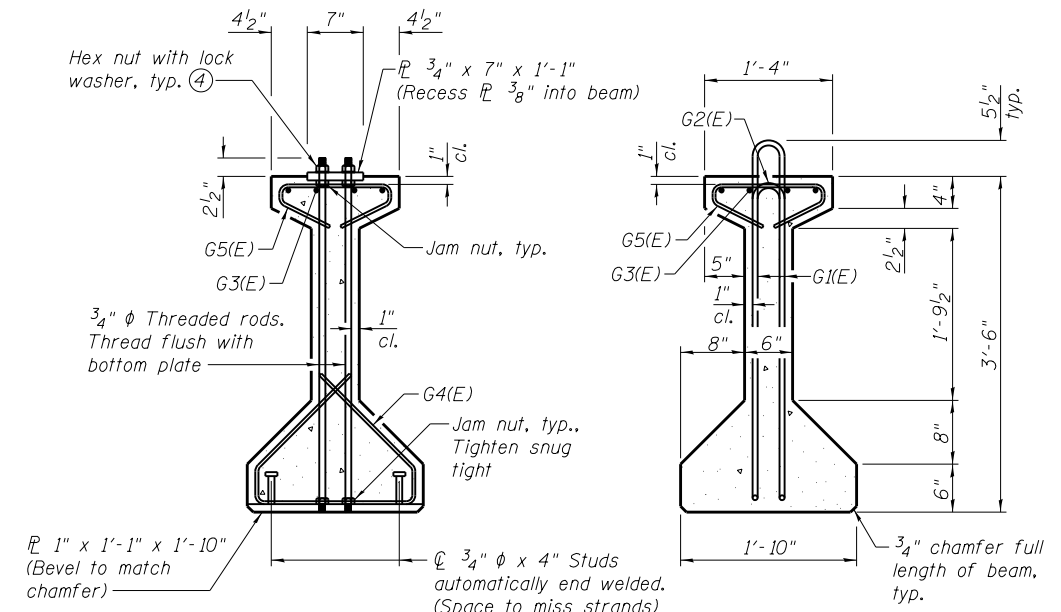
SHEET NO. 14 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	37
CONTRACT NO. 68668				

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**ELEVATION OF BEAM**  
(Showing reinforcement & dimensions)

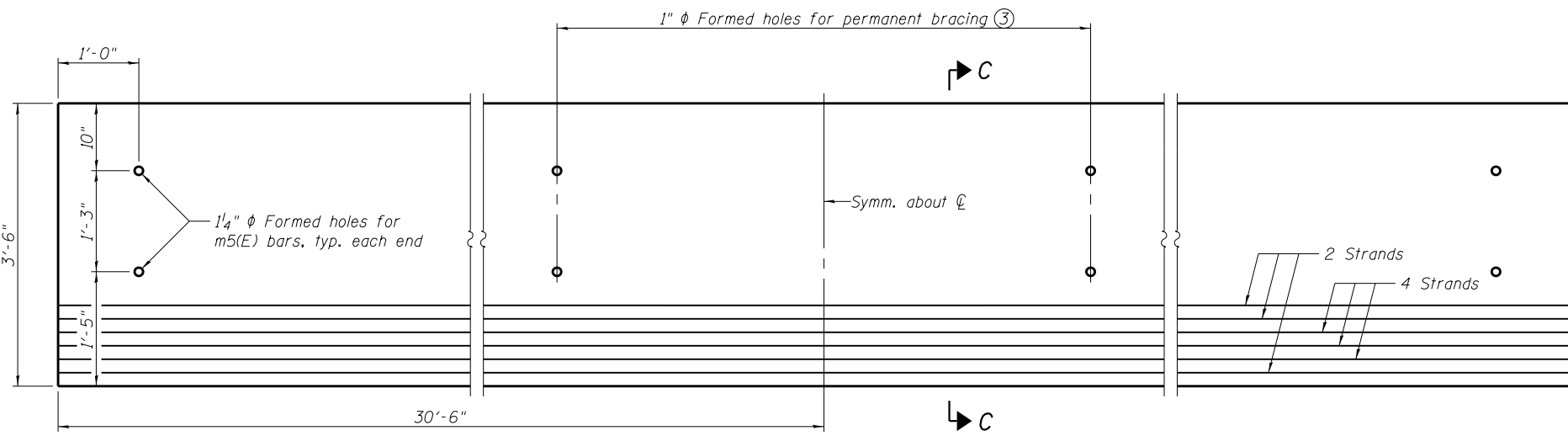


**SECTION A-A**

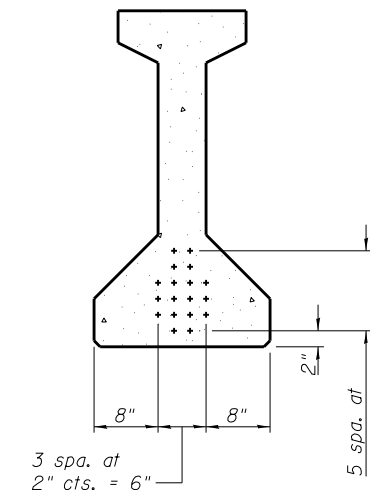
**SECTION B-B**

**BAR LIST**  
**ONE BEAM ONLY**  
(For information only)

Bar	No.	Size	Length	Shape
G1(E)	102	#4	8'-7"	$\Pi$ L
G2(E)	10	#4	6'-8"	$\Pi$
G3(E)	8	#6	32'-2"	$\Pi$
G4(E)	38	#3	4'-11"	$\Pi$ X
G5(E)	61	#3	2'-6"	$\Pi$



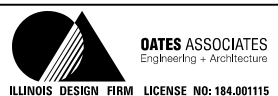
**ELEVATION OF BEAM**  
(Showing prestressing steel)



**SECTION C-C**

- Notes:
- ① For additional details and Bill of Material, see sheet 16 of 28.
  - ② Required release strength,  $f'_{ci}$ , shall be 5,000 psi.
  - ③ For number and location of holes, see sheet 14 of 28.
  - ④ Only tighten sufficiently to compress lock washers.

FILE NAME = H:\P\29048\NO. 12 SING72-0247.IL 90 & 91 over Prince Creek Phase II PSE\Structural\Final Plans\Miscstation\0720247-66666-015-42.PPC 1-Beam.dgn



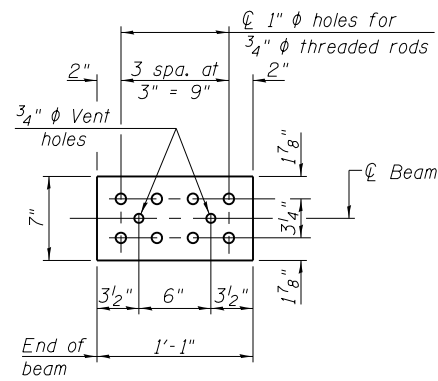
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CHECKED - SJN	CHECKED - SJN	REVISED -
PLOT SCALE =	DRAWN - KBC	REVISED -
PLOT DATE = 11/28/2016	CHECKED - SJN	REVISED -

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

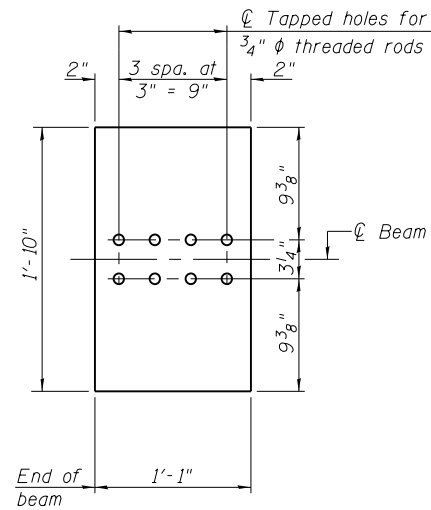
**42" PPC I-BEAM**  
**STRUCTURE NO. 072-0247**

SHEET NO. 15 OF 28 SHEETS

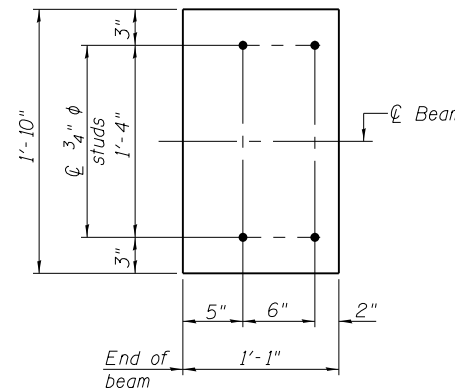
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	38
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				



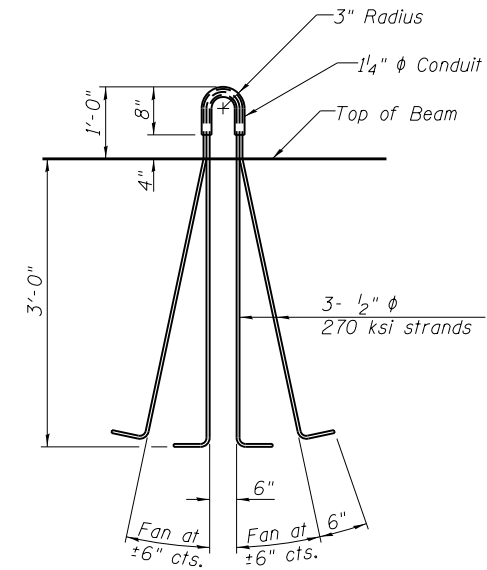
**TOP PLATE**



**BOTTOM PLATE**  
(Showing threaded rods)



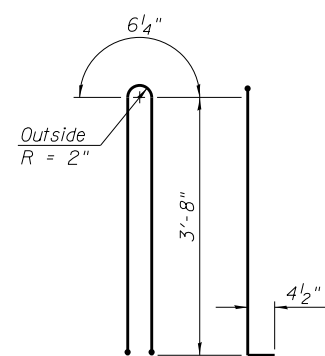
**BOTTOM PLATE**  
(Showing studs)



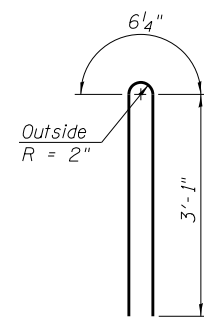
**LIFTING LOOP DETAIL**

**BILL OF MATERIAL**

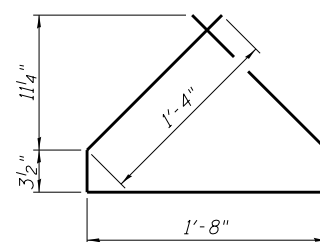
Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 42 in.	Foot	366.0



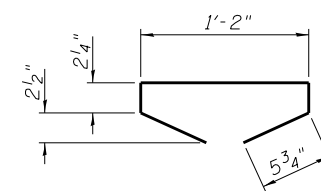
**BAR G1(E)**



**BAR G2(E)**



**BAR G4(E)**

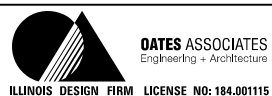


**BAR G5(E)**

**Notes:**

- ① Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- ② The beams shall have a final concrete compressive strength, f'c, of 6,000 psi and a release concrete compressive strength, f'ci, of 5,000 psi.
- ③ A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
- ④ The top and bottom plates shall be AASHTO M270 Grade 50.
- ⑤ The top and bottom plates shall be galvanized according to AASHTO M111. The threaded rods, nuts and washers shall be galvanized according to AASHTO M232.
- ⑥ Threaded rods shall be ASTM F 1554 Grade 55.
- ⑦ Beams shall not be released from the fabricator until they have attained 45 days of age or older.

FILE NAME = H:\P\29048\NO. 12 SIGN\2-0247.IL 90 & 91 over Prince Creek Phase II PSE\Structural\Final Plans\Miscstation\0720247-68668-016-42".PPC 1-Beam\_Detail.dgn



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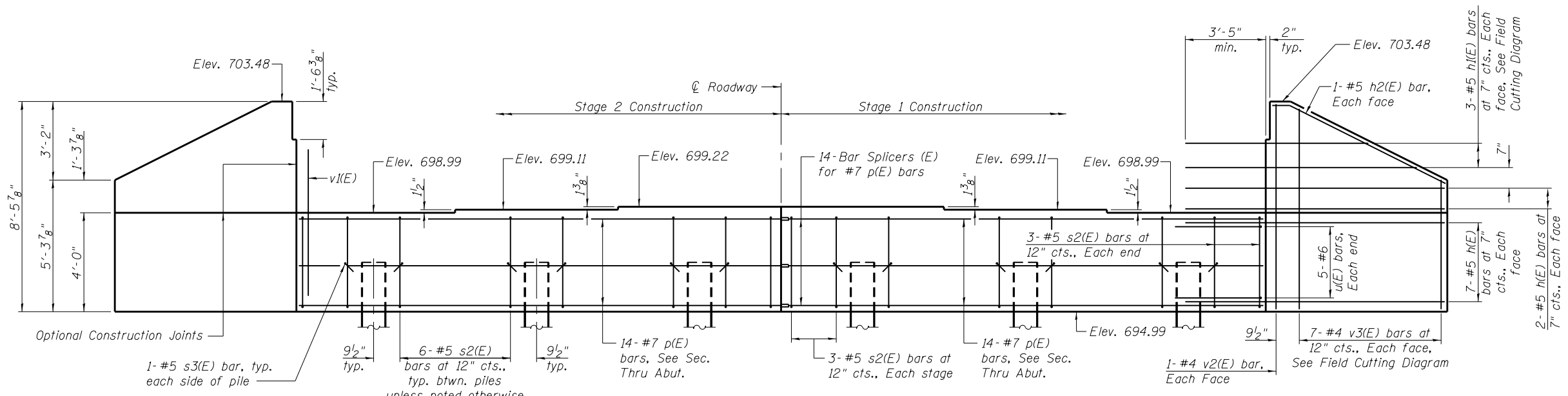
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**42" PPC I-BEAM DETAILS  
STRUCTURE NO. 072-0247**

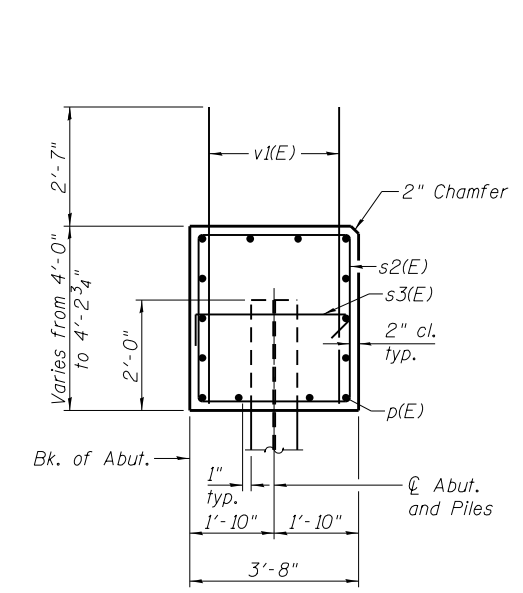
SHEET NO. 16 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	39
CONTRACT NO. 68668				

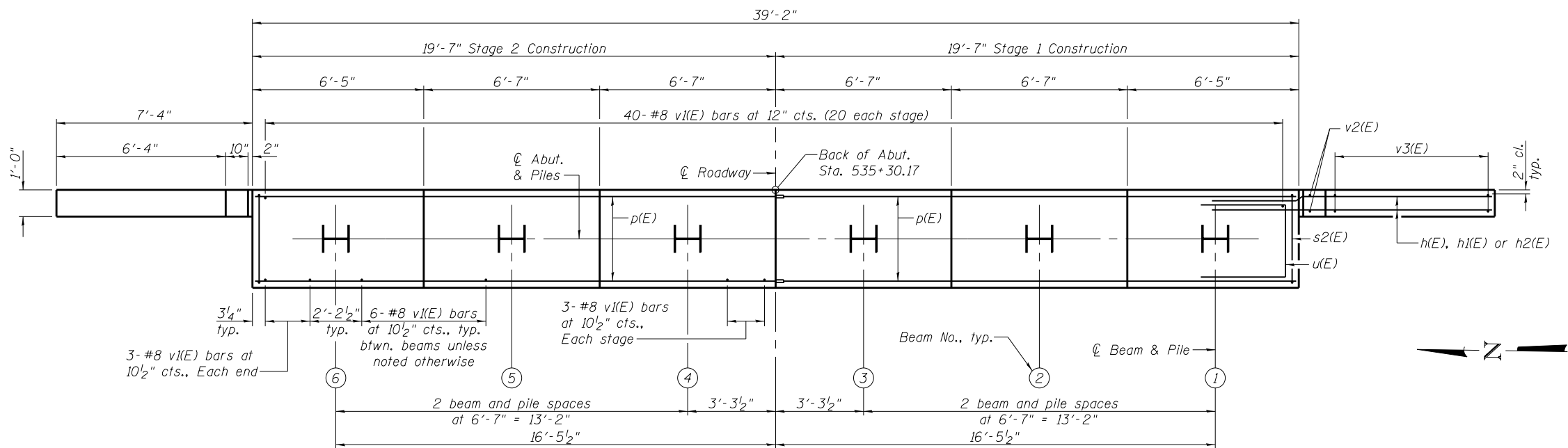
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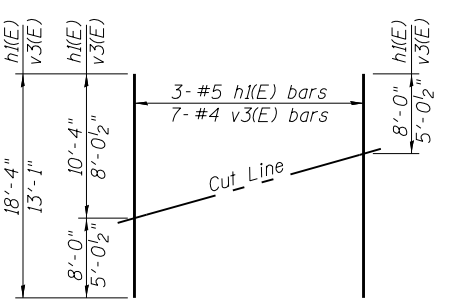
**ELEVATION**  
(Looking East)



**SEC. THRU ABUT.**

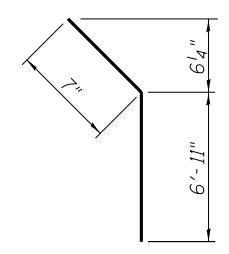


**PLAN**

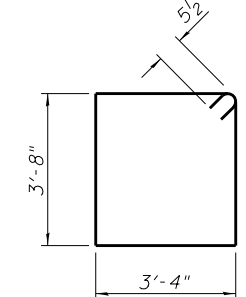


**FIELD CUTTING DIAGRAM**

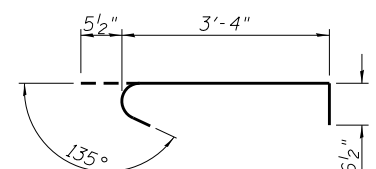
Order h1(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.



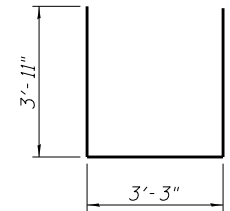
**BAR h2(E)**



**BAR s2(E)**



**BAR s3(E)**



**BAR u(E)**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	36	5	10'-7"	—
h1(E)	6	5	18'-4"	—
h2(E)	4	5	7'-6"	—
p(E)	28	7	19'-3"	—
s2(E)	36	5	14'-11"	□
s3(E)	12	5	4'-4"	┌
u(E)	10	6	11'-1"	□
v1(E)	76	8	5'-11"	—
v2(E)	4	4	8'-1"	—
v3(E)	14	4	13'-1"	—
Structure Excavation			Cu. Yd.	149
Concrete Structures			Cu. Yd.	25.8
Reinforcement Bars, Epoxy Coated			Pound	3,770
Furnishing Steel Piles HP12x53			Foot	205
Driving Piles			Foot	205
Test Pile Steel HP12x53			Each	1

**PILE DATA**

Type: Steel HP12x53  
 Nominal Required Bearing: 419 kips  
 Factored Resistance Available: 230 kips  
 Est. Length: 41'  
 No. Production Piles: 5  
 No. Test Piles: 1

- Notes:  
 ① Pour steps monolithically with cap.  
 ② For details of piles, see sheet 19 of 28.  
 ③ For details of Bar Splicers, see sheet 20 of 28.

FILE NAME = H:\P\29048\NO.12 SING72-0247.IL 90 & 91 over Prince Creek Phase II PSE\Structural\Final Plans\Miscstation\0720247-66666-017-East Abutment Details.dgn



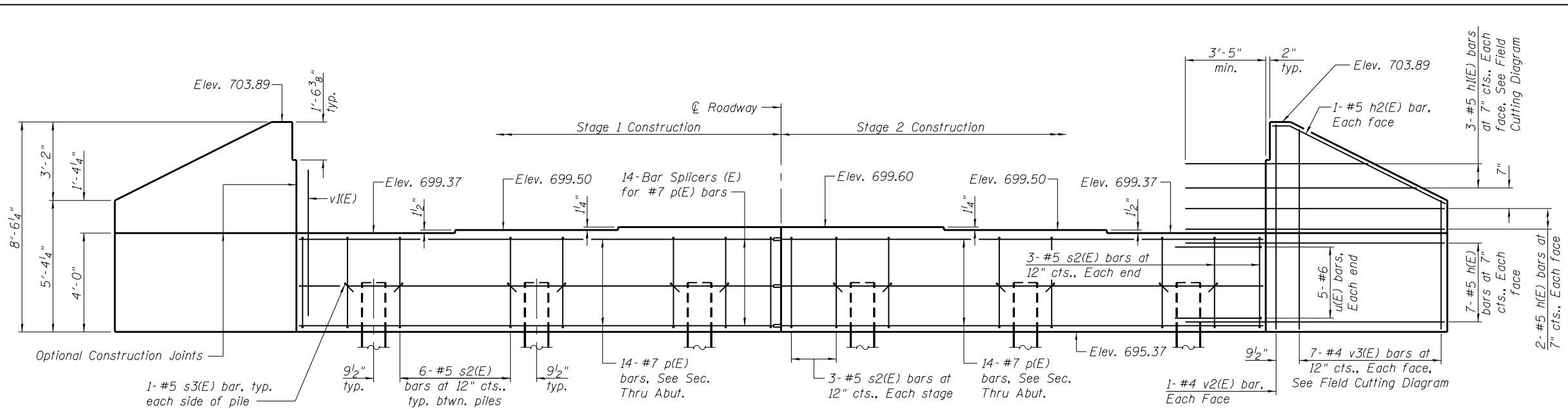
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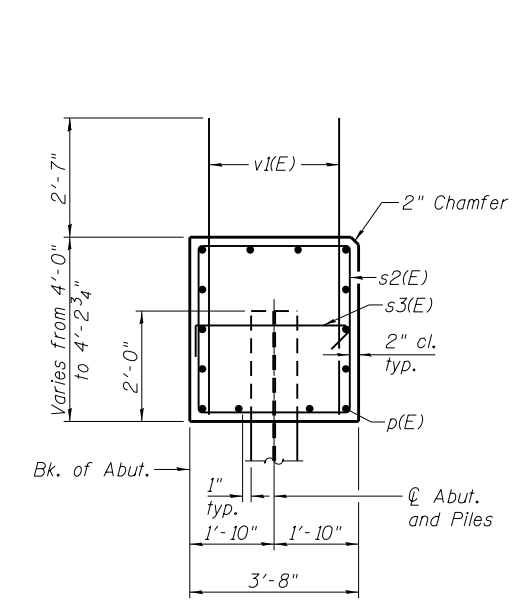
**EAST ABUTMENT DETAILS**  
**STRUCTURE NO. 072-0247**  
 SHEET NO. 17 OF 28 SHEETS

F.A.P. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	40
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				

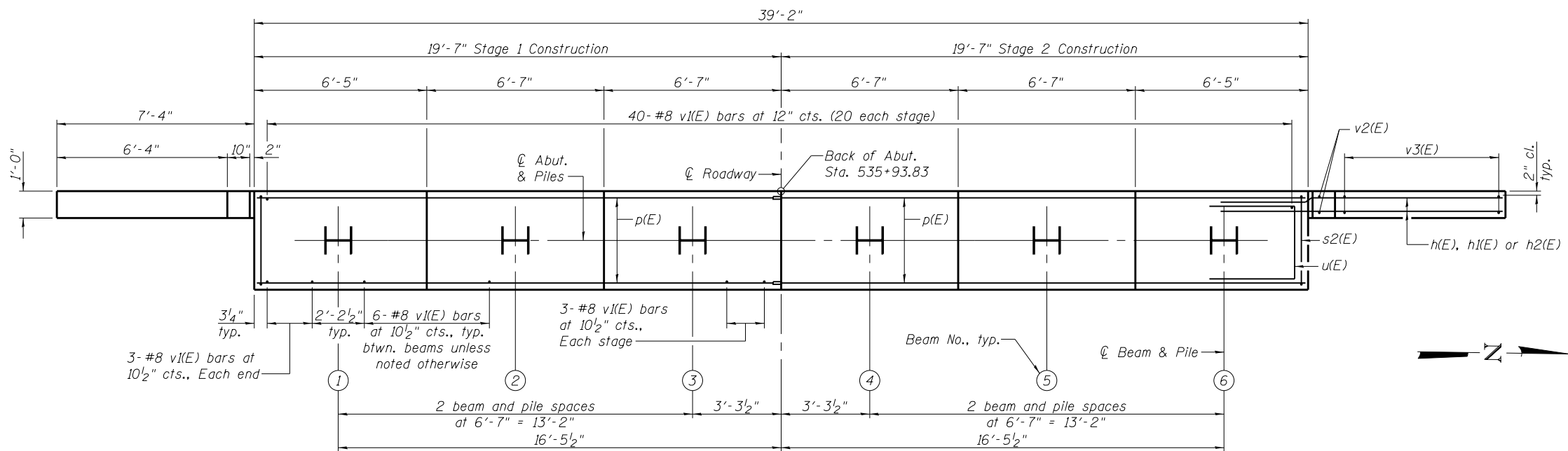




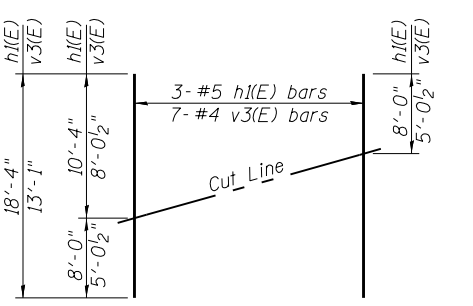
**ELEVATION**  
(Looking West)



**SEC. THRU ABUT.**

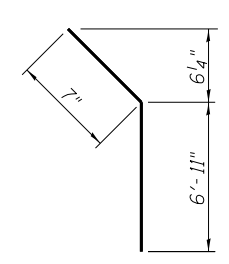


**PLAN**

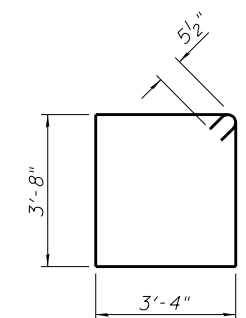


**FIELD CUTTING DIAGRAM**

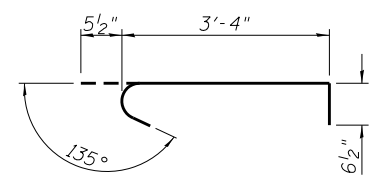
Order h1(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.



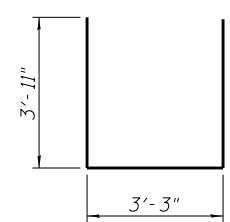
**BAR h2(E)**



**BAR s2(E)**



**BAR s3(E)**



**BAR u(E)**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	36	5	10'-7"	—
h1(E)	6	5	18'-4"	—
h2(E)	4	5	7'-6"	—
p(E)	28	7	19'-3"	—
s2(E)	36	5	14'-11"	□
s3(E)	12	5	4'-4"	┌
u(E)	10	6	11'-1"	U
v1(E)	76	8	5'-11"	—
v2(E)	4	4	8'-1"	—
v3(E)	14	4	13'-1"	—
Structure Excavation			Cu. Yd.	130
Concrete Structures			Cu. Yd.	25.8
Reinforcement Bars, Epoxy Coated			Pound	3,770
Furnishing Steel Piles HP12x53			Foot	200
Driving Piles			Foot	200
Test Pile Steel HP12x53			Each	1

**PILE DATA**

Type: Steel HP12x53  
 Nominal Required Bearing: 419 kips  
 Factored Resistance Available: 230 kips  
 Est. Length: 40'  
 No. Production Piles: 5  
 No. Test Piles: 1

- Notes:  
 ① Pour steps monolithically with cap.  
 ② For details of piles, see sheet 19 of 28.  
 ③ For details of Bar Splicers, see sheet 20 of 28.

FILE NAME = H:\P\29048\NO.12 SING72-0247.IL 90 & 91 over Prince Creek Phase II PSE\Structural\Final Plans\Miscstation\0720247-66666-018-West Abutment Details.dgn

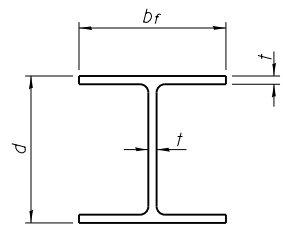


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PLOT DATE = 11/28/2016	DRAWN - KBC	REVISED -
	CHECKED - SUN	REVISED -

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

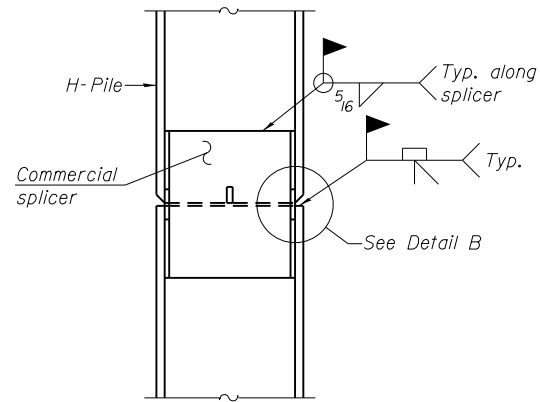
**WEST ABUTMENT DETAILS**  
**STRUCTURE NO. 072-0247**  
SHEET NO. 18 OF 28 SHEETS

F.A.P. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	41
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				

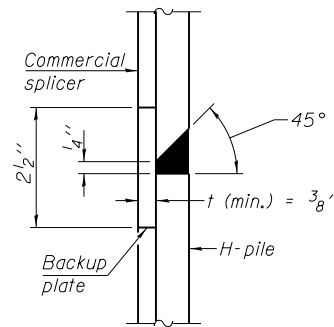


**STEEL PILE TABLE**

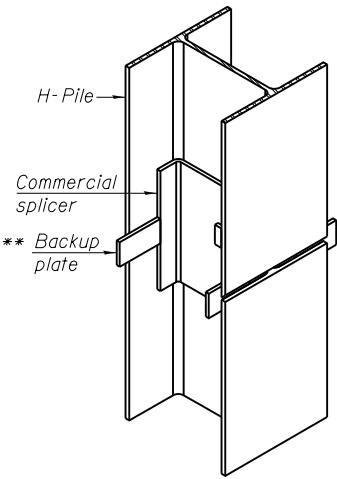
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	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**

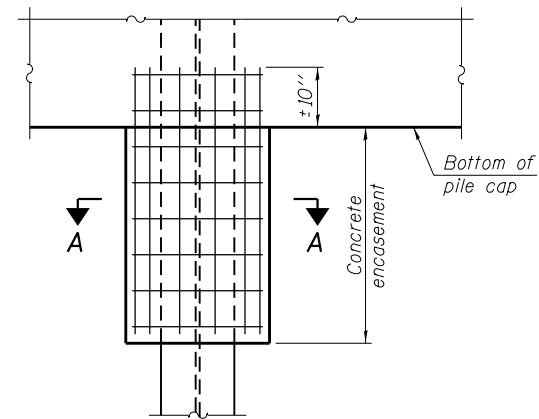


**DETAIL "B"**



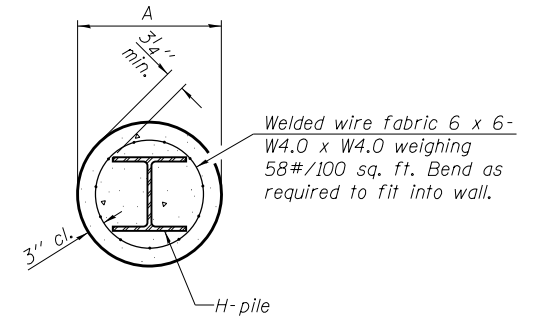
**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE**



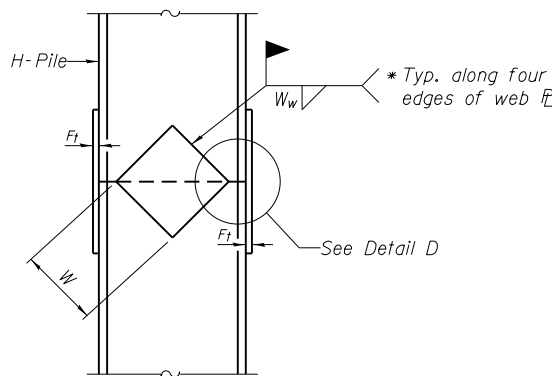
**ELEVATION**

**PILE ENCASEMENT**

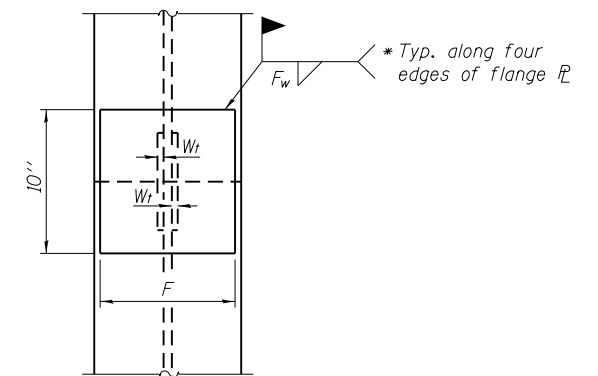


**SECTION A-A**

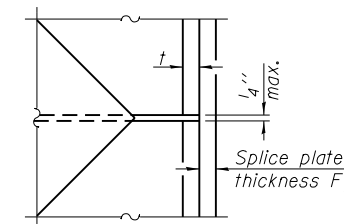
Note:  
Forms for encasement may be omitted when soil conditions permit.



**ELEVATION**



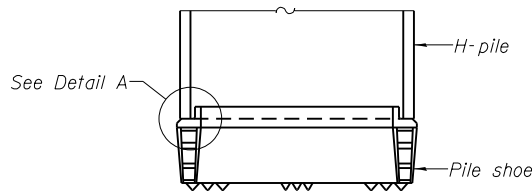
**END VIEW**



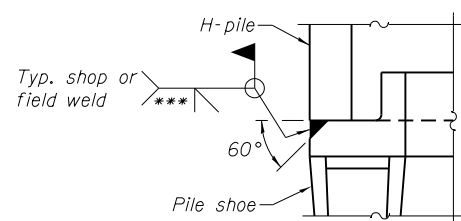
**DETAIL D**

**WELDED PLATE FIELD SPLICE**

Designation	F	F <sub>t</sub>	F <sub>w</sub>	W	W <sub>t</sub>	W <sub>w</sub>
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"	1/16"	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"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	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"

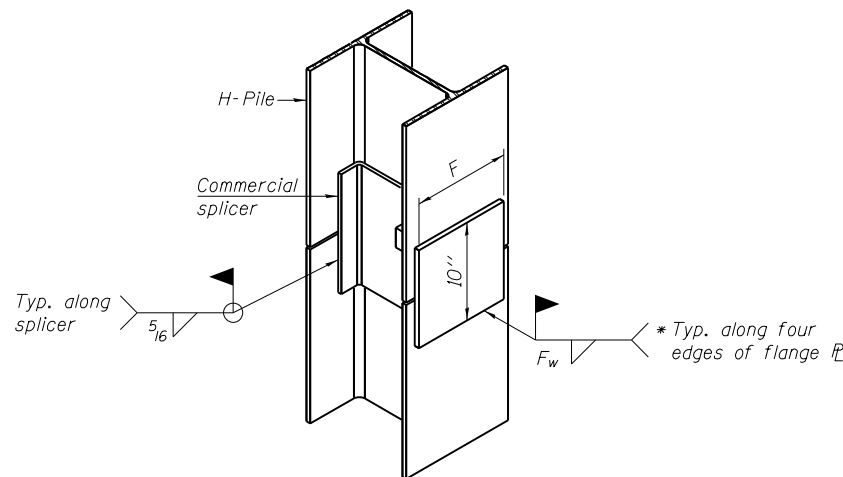


**ELEVATION**



**DETAIL A**

**H-PILE SHOE ATTACHMENT**



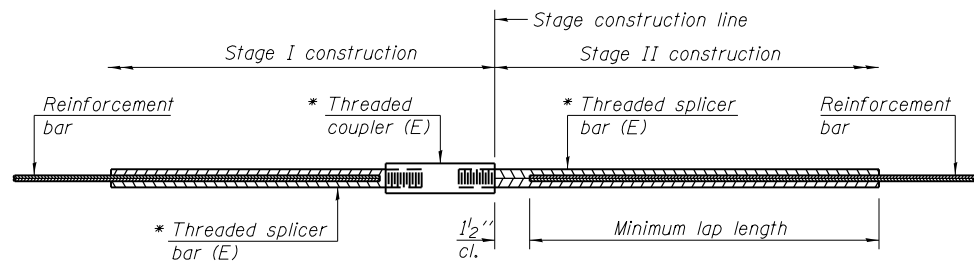
**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

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

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

FILE NAME = H:\P\29048\NO.12.SIN972-0247.IL.90 & 91 over Prince Creek Phase II PSE\Structural\Final Plans\Miscstation\0720247-66666-019-HP\_Pile\_Details.dgn

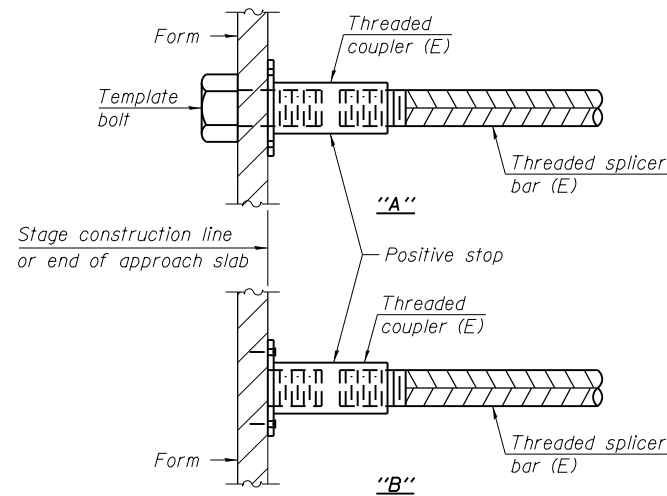


**STANDARD BAR SPLICER ASSEMBLY**

Threaded splicer bar length = min. lap length + 1/2" + thread length

\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	181	3'-6"
Diaphragm	#6	18	4'-0"
Top of Approach Slab	#5	92	3'-1"
Bottom of Approach Slab	#8	120	4'-9"
Approach Footing	#5	80	2'-5"
Abutment Cap	#7	28	4'-7"

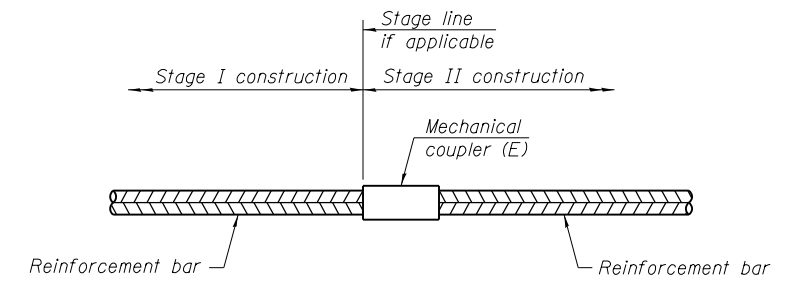


**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.

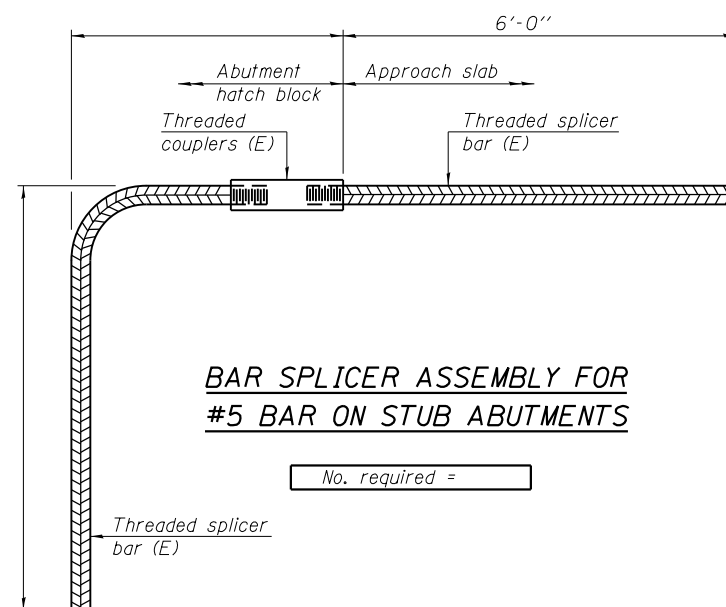
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

FILE NAME = H:\P\29048\WG.12.SIN972-0247.IL.90 & 91 over Prince Creek Phase II PSE\Structural\Final Plans\Miscstation\0720247-66666-020-Bar Splicer Assembly and Mechanical Splicer-Details.dwg

BSD-1

6-8-15



USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 11/28/2016	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
STRUCTURE NO. 072-0247

SHEET NO. 20 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	43
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				



### SOIL BORING LOG

Date 5/13/15

ROUTE FAP 661 DESCRIPTION IL 90/91 over Prince Creek LOGGED BY SCI (HHF)

SECTION (8B)BR-1 LOCATION SE 1/4 of the SE 1/4, SEC. 18, TWP. 11N, RNG. 7E, Latitude, Longitude

COUNTY Peoria DRILLING METHOD Mobile B-57 w/ CFA HAMMER TYPE Automatic

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	ft	D	B	U	M
		E	L	C	O	Stream Bed Elev.	ft	E	L	C	O
BORING NO.	Station	P	O	S	I	Groundwater Elev.:		P	O	S	I
		T	W	S	S	First Encounter	ft	T	W	S	Qu
	Offset	H	S	Qu	T	Upon Completion	ft	H	S	Qu	T
	Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	After	n/a	(ft)	(/6")	(tsf)	(%)
8" ASPHALTIC CONCRETE		701.8				SILTY LOAM: Gray, A-4					
12" CONCRETE		700.8						4	0.4		25
FILL: Brown, clay, trace gravel, A-6			1	0.4	26			4			
			2					4			
			1					2			
			1	1.0	6			3	1.7		25
			1					4			
			1	0.5	23			2			
			1					4	2.2		28
			1					6			
			1					2			
			1	0.5	23			4	2.2		28
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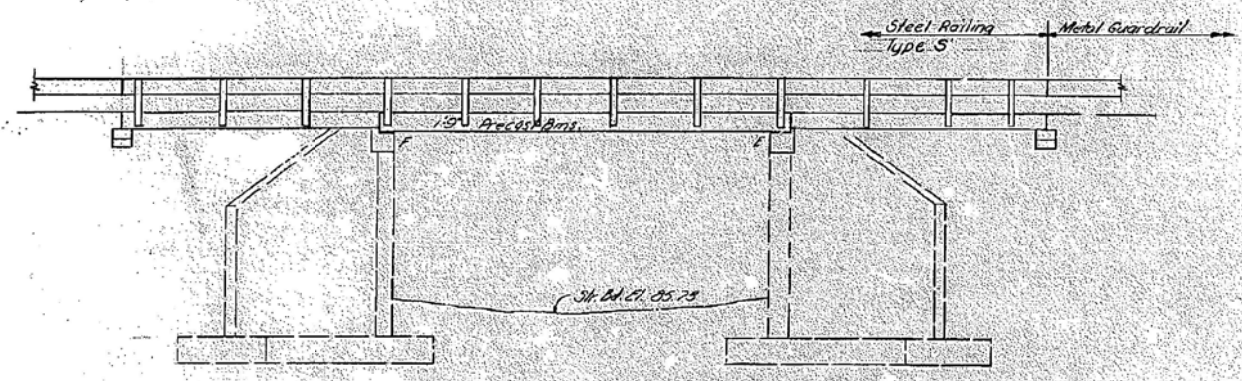
BM Chiseled "I" on Northwest wingwall. Elev. 100.00  
 Existing Structure: Built as SBI RT 30, Sec 8B in 1966 @ Sta. 535+60.  
 One Span R.C.D.G. Superstructure to be removed by contractor.  
 No Salvage. R.C. Abutments to be widened.  
 Traffic shall be maintained utilizing stage construction and temporary handrail.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

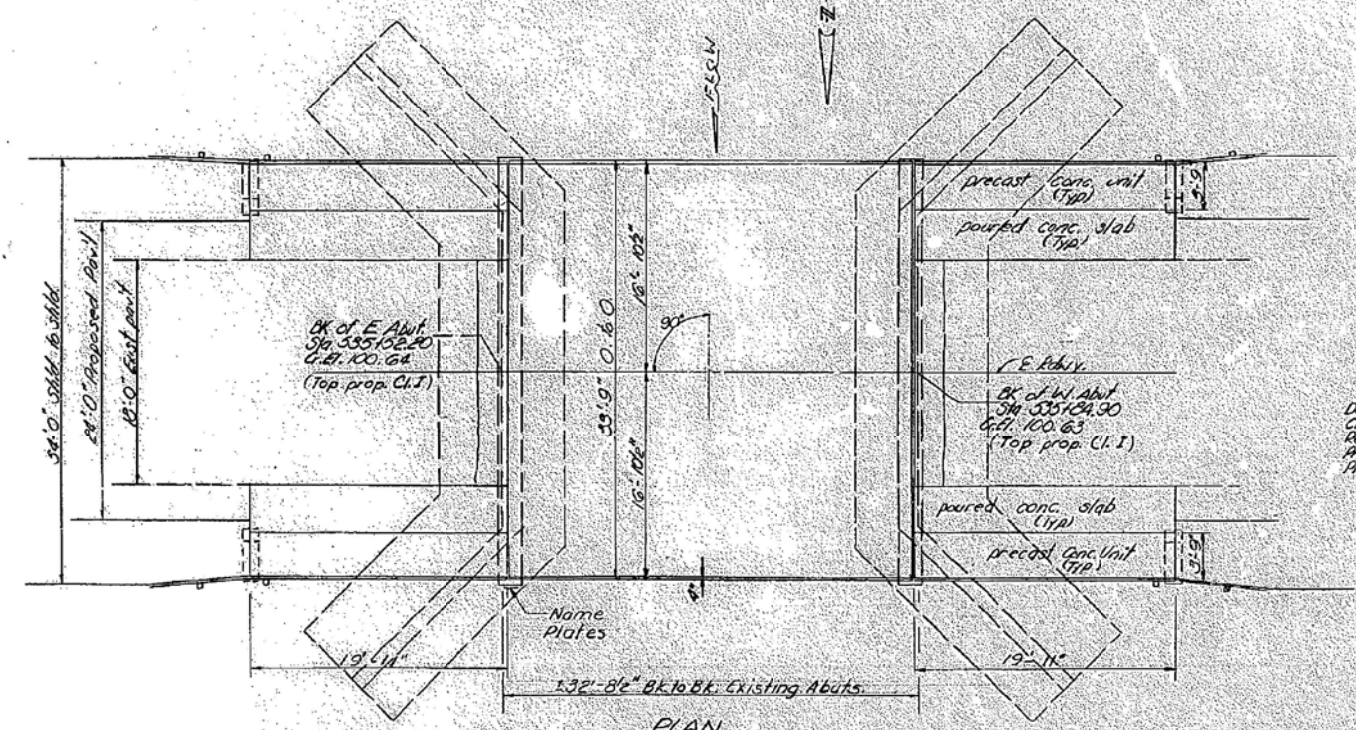
SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
11-31	78 C 88 R	Peoria	17	10	8 SHEETS
PER. AND DATE: _____					

GENERAL NOTES

All reinforcement bars shall be lapped 24 dia. neters unless otherwise shown.  
 It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.  
 Expansion bolts shall consist of self-drilling expansion anchors and 3/4" x 12" hooked bolts.  
 Shoulder transition to wingwall shall be shaped with broken concrete. Cast incidental.  
 Expansion guards which are not cast in the precast unit shall be fabricated and erected in accordance with Article 503.07(c) of the Standard Specifications and are included in quantity of structural steel.  
 All structural steel shall be shop painted with two coats of basic lead silico chromate paint.



ELEVATION



PLAN

STATION 535+60  
 REBUILT BY  
 STATE OF ILLINOIS  
 SBI RT 30 SEC 8 BR  
 F.A. PROJECT #F-107(17)  
 LOADING HS 20  
 NAME PLATE  
 (See Std. 2113)

WATERWAY INFORMATION  
 Drainage Area 3.6 sq mi  
 Character \_\_\_\_\_  
 Required Opening 550 sq ft  
 Present Opening (30% A) 330 sq ft  
 Proposed Opening (30%) 1570 cfs  
 Max recorded H<sub>1/2</sub> 96.0

TOTAL BILL OF MATERIAL

Item	Unit	SUPER	SUB	TOTAL
Removal of Existing Superstructures	Each			1
Concrete Removal	Cu. Yds.		10	10
Class X Concrete	Cu. Yds.		13.6	13.6
Steel Railing (Type S)	Lin. Ft.	144		144
Reinforcement Bars	Lbs.		2170	2170
Waterproofing Membrane System	Sq. Yds.			123
Preformed Joint Sealer	Lin. Ft.	34		34
Pav't. Removal and P.C.C.	Sq. Yds.			8
Replacement Type II (R)	Sq. Ft.			1349
Precast Conc. Bridge Slab	Sq. Ft.			37
Portland Cement Concrete Pavement 10"	Sq. Yds.			37
Pavement Fabric	Sq. Yds.			86
Expansion Bolts 3/4"	Each			38
Temporary Guardrail	Lin. Ft.			1
Structural Steel	Lbs.	1400		1400
Name Plates	Each		1	1
Bituminous Concrete Surface Course Class I	Tons			35
Portland Cement Mortar Facing Course	Sq. Ft.	249		249

\* See Special Provisions

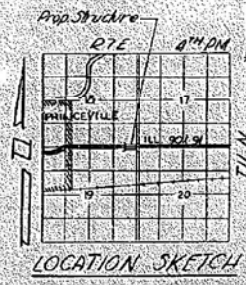
PRECAST UNITS

16	4,500 psi
16	15,000 psi
15	20,000 psi
7	8

FIELD UNITS

16	1,000 psi Sd
16	7,000 psi Fy
15	20,000 psi
15	20,000 psi

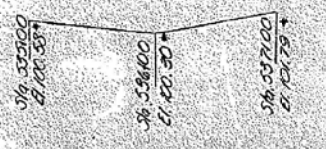
Allow 25% for Shrinkage



GENERAL PLAN & ELEVATION  
 F.A. RT 31 (TH 90' 9") OVER SUGAR CREEK  
 SBI RT 30 SECTION 8BR  
 PEORIA COUNTY  
 STATION 535+60

DESIGNED Bev. Robinson  
 CHECKED [Signature]  
 DRAWN daryl BTR  
 CHECKED [Signature]

EXAMINED [Signature] July 6 1971  
 PASSED [Signature]  
 APPROVED [Signature]  
 DIRECTOR OF HIGHWAYS



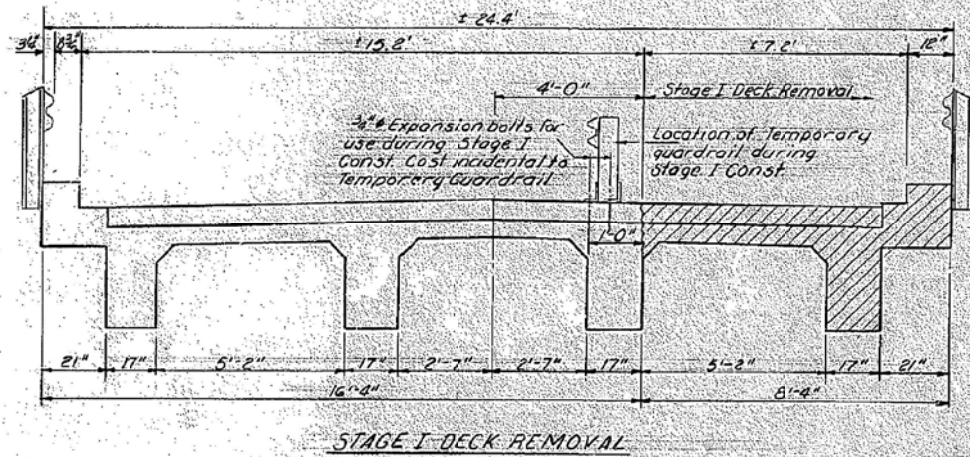
LOADING HS 20-44  
 Design Specifications AASHTO, 1969 as applicable.

Revised 2-17-75 JRS & CWS

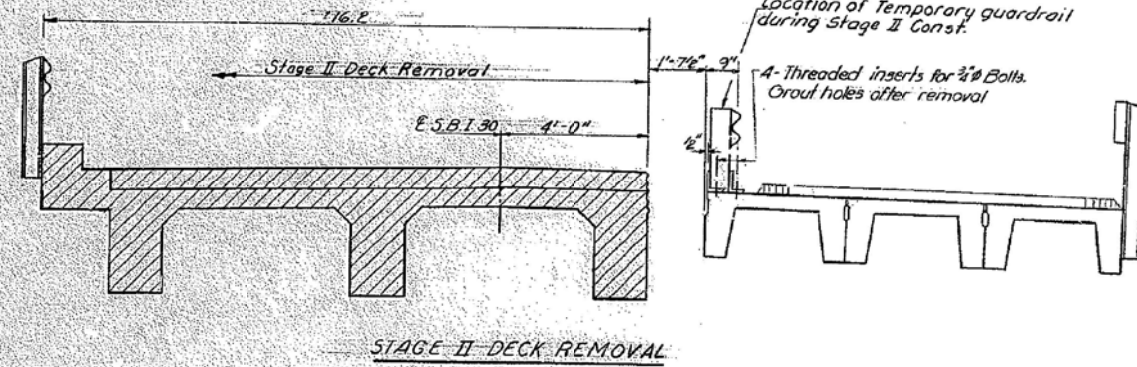
FILE NAME = H:\P\29048\NO.12.SIN972-0247.IL.90 & 91 over Prince Creek Phase II PSE\Structural\Final Plans\Misc\station\0720247-68666-023-Existing Bridge Plans for Information Only.dgn

STATE OF ILLINOIS

REFR. NO.	FACILITY	COUNTY	TOTAL SHEETS	SHEET NO.
101	BR	Peoria	17	11
SHEETS				

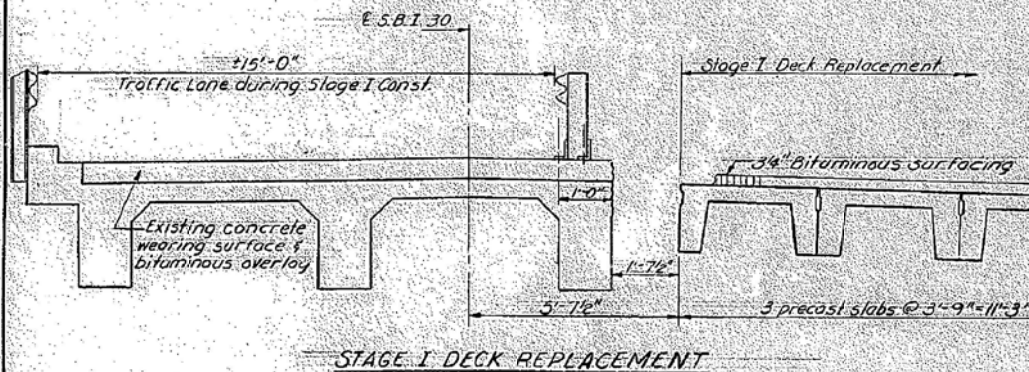


STAGE I DECK REMOVAL

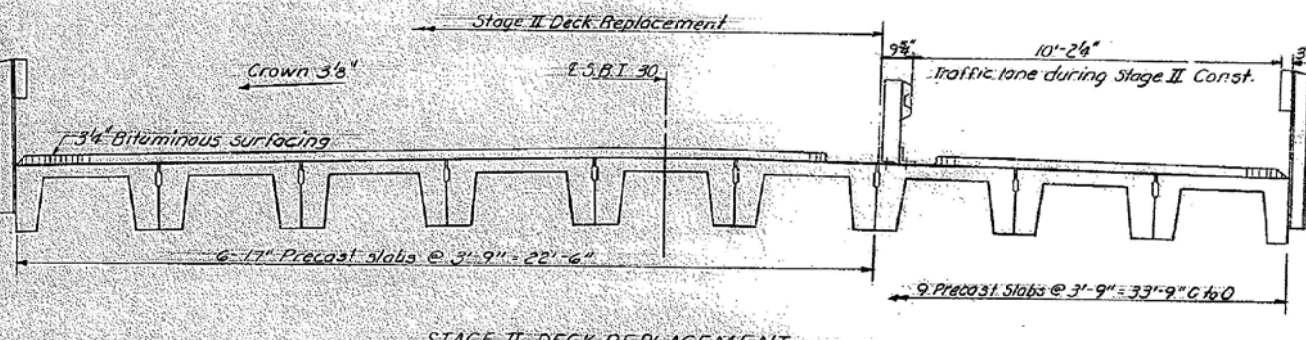


STAGE II DECK REMOVAL

All Stage Const Views looking West



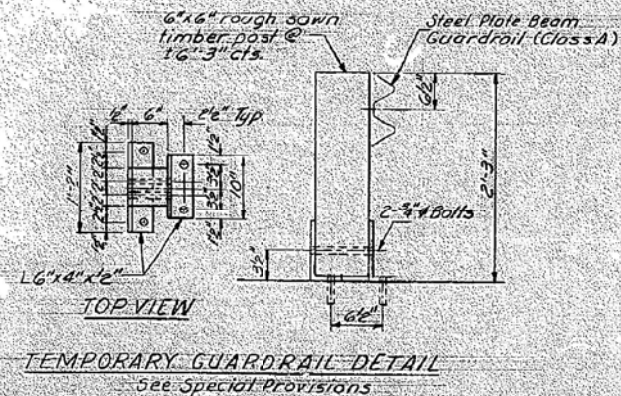
STAGE I DECK REPLACEMENT



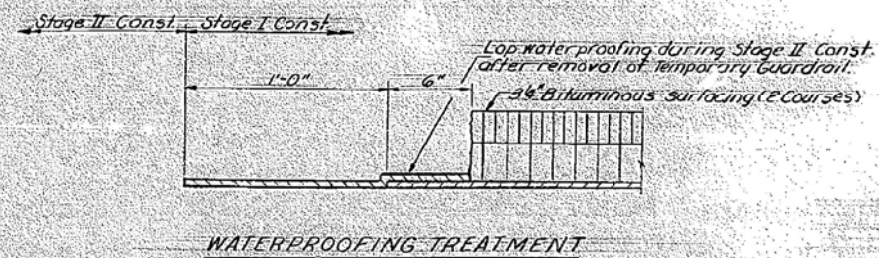
STAGE II DECK REPLACEMENT

DESIGNED	By Robinson
CHECKED	By B. Adams
DRAWN	By Robinson
CHECKED	By J. N.

EXAMINED	By [Signature]	DATE	July 6, 2011
PASSED			
APPROVED			



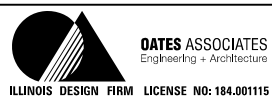
TEMPORARY GUARDRAIL DETAIL  
See Special Provisions



WATERPROOFING TREATMENT

STAGE CONSTRUCTION  
SUPERSTRUCTURE  
S.B.T. RT. 30 - SEC. 8 BR  
PEORIA COUNTY  
STA. 635+60

FILE NAME = H:\P\29048\NO. 12 S\072-0247.IL 90 & 91 over Prince Creek Phase II PSE\Structural\Final Plans\Miscstation\072027-68668-024-Existing Bridge Plans for Information Only.dgn



USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 11/28/2016	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

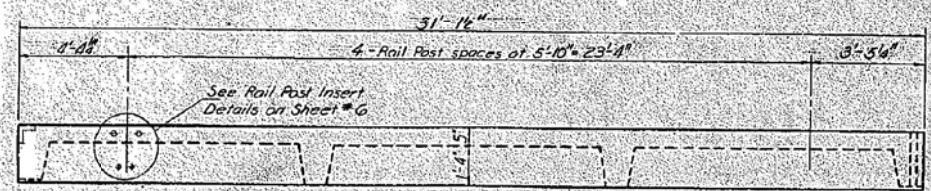
EXISTING BRIDGE PLANS  
FOR INFORMATION ONLY

SHEET NO. 24 OF 28 SHEETS

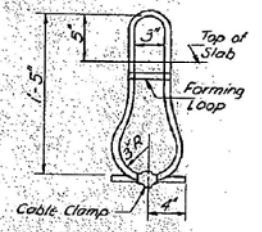
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	47
CONTRACT NO. 68668				

ILLINOIS FED. AID PROJECT

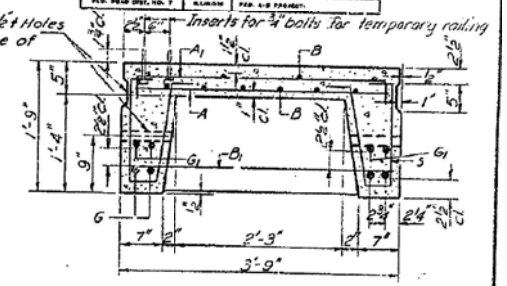
PROJECT NO.	SECTION	SHEET	TOTAL SHEETS	SHEET NO.
784	BBR	17	12	8
PEORIA COUNTY				



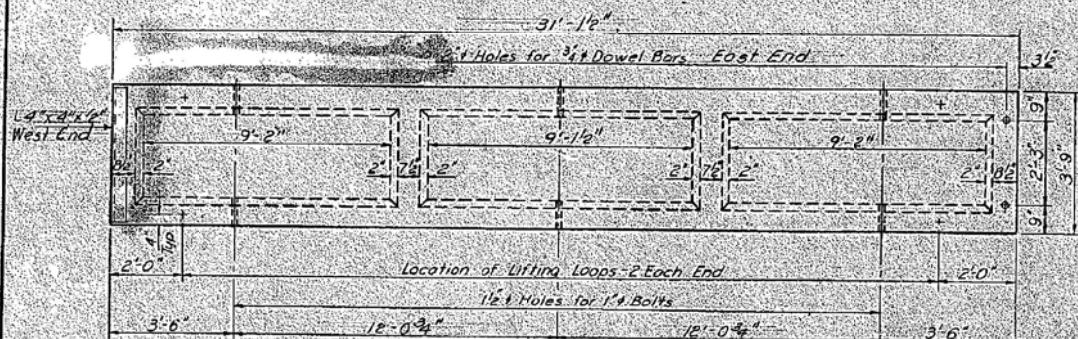
ELEVATION  
Looking South



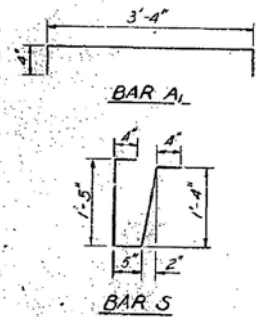
LIFTING LOOP DETAIL



SECTION THRU PRECAST UNIT

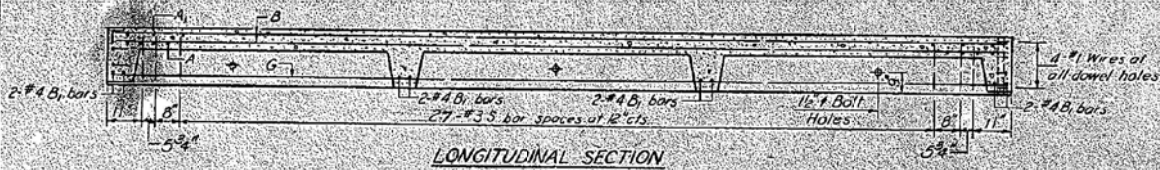


PLAN OF ONE UNIT



BAR LIST - ONE UNIT  
Reinforcement to be cast into slab

Bar No	Size	Length	Shape
A	#3	3'-3"	U
A1	#4	4'-0"	U
B	#4	30'-10"	—
B1	#4	3'-6"	—
G	#11	30'-10"	—
G1	#10	30'-10"	—
S	#3	3'-10"	U

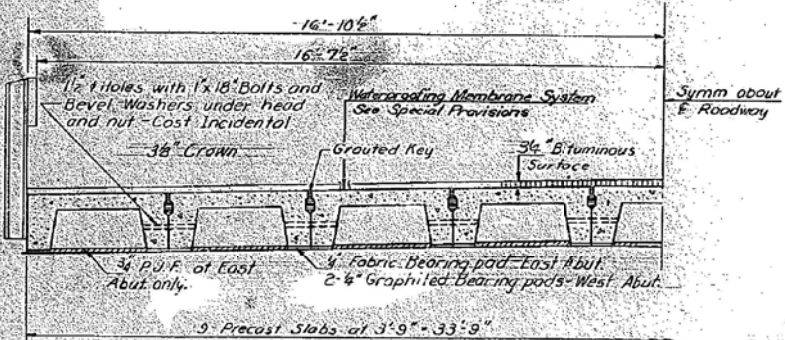


LONGITUDINAL SECTION

NOTES  
Unless otherwise approved by the Engineer, lifting loops shall be 1/2" 6x19 class wire rope with fiber core and shall have a minimum ultimate strength of 18,700 lbs. Loops shall be burned off after slab has been erected. Holes shall be drilled and anchor dowels grouted in place. Cost of reinforcement and accessories cast into the slab unit, bearing pads, furnishing, drilling for, placing and grouting anchor dowels is included in Unit bid price for "Precast Concrete Bridge Slab."



SLAB REINFORCEMENT



HALF CROSS SECTION

BILL OF MATERIAL

Item	Unit	Quantity
Precast Concrete Bridge Slab	Sq Ft	16.50
Removal of Existing Superstructure	Each	1

DESIGNED BY Robinson  
 CHECKED B.P. Summer  
 DRAWN R.P. Summer  
 CHECKED B.P. Summer

EXAMINED [Signature]  
 PREPARED [Signature]  
 APPROVED [Signature]

JULY 6 1971

STRESSES  
 fc = 4,500 psi  
 ft = 1,800 psi  
 fs = 20,000 psi  
 n = 8  
 LOADING HS-20

SUPERSTRUCTURE  
 S.B.I. RT-30 SEC. 8 BR  
 PEORIA COUNTY  
 STA. 535+60

SR-4 21" Precast Units > 20'lg

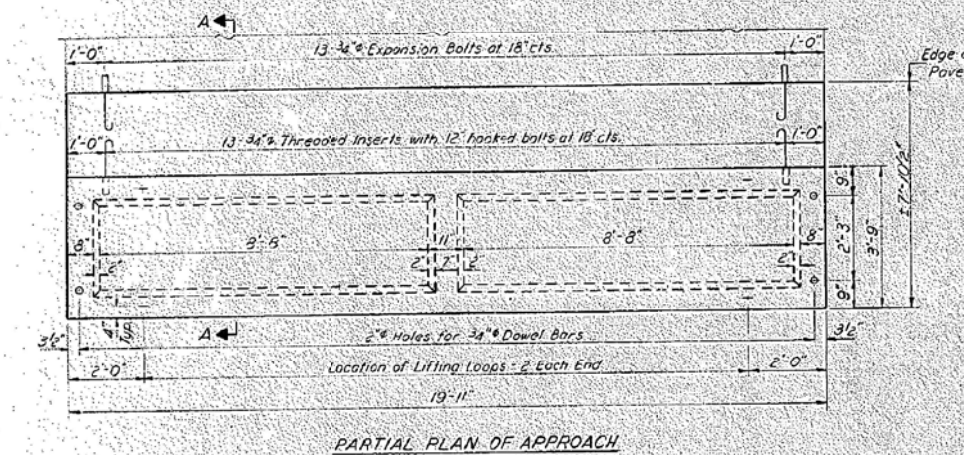
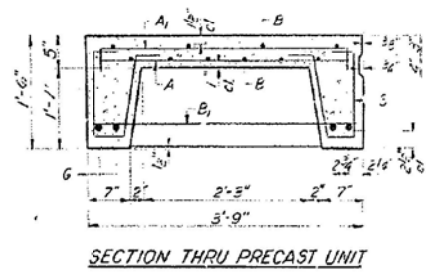
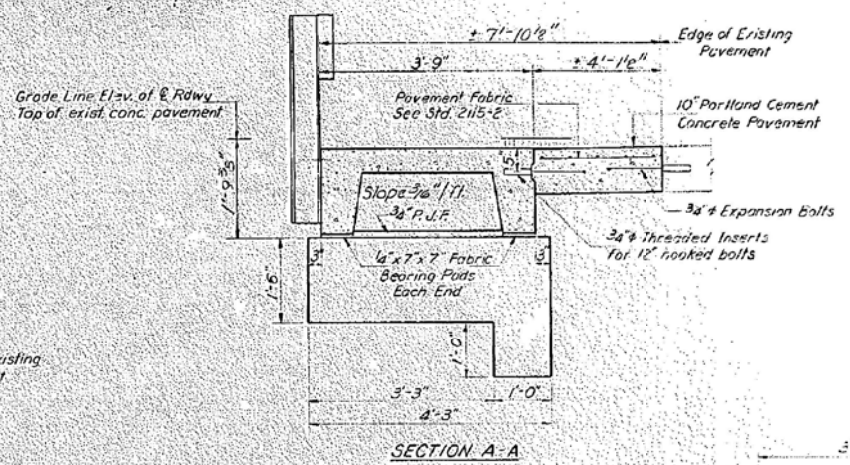
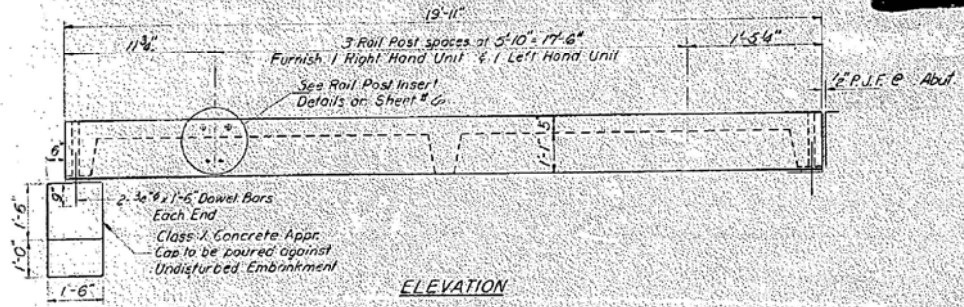
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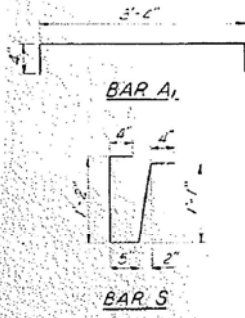
STATE OF ILLINOIS

SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	8BR	PEORIA	71	49



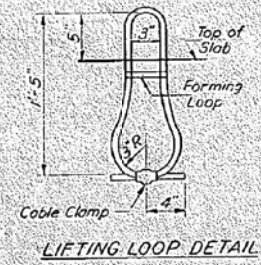
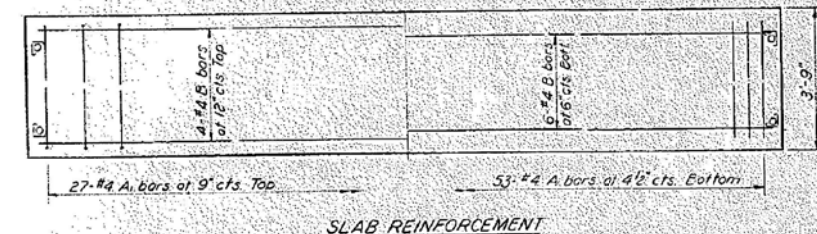
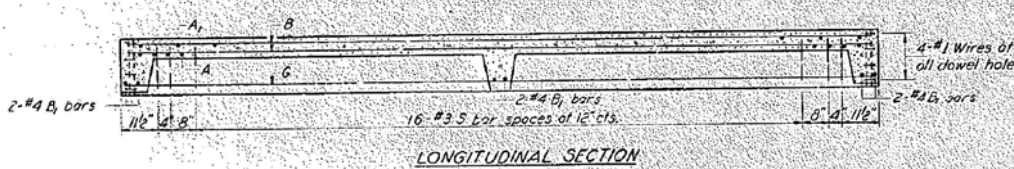
**BAR LIST - ONE UNIT**

Bar	No.	Size	Length	Spaced
A	5	#4	3'-3"	
A1	27	#4	4'-0"	
B	10	#4	19'-7"	
B1	6	#4	3'-6"	
G	2	#10	19'-7"	
S	42	#3	3'-6"	



**NOTES**

Unless otherwise approved by the Engineer, lifting loops shall be 1/2" 6x10 class wire rope with fiber core and shall have a minimum ultimate strength of 15,700 lbs. Loops shall be turned off after slab has been erected. Holes shall be drilled and anchor dowels grouted in place. Cost of reinforcement and accessories cast into the slab with bearing pads, furnishing, drilling for, placing and grouting anchor dowels and 3/8" hooked bolts is included in Unit bid price for "Precast Concrete Bridge Slab." The Precast Concrete Bridge Slab shall be erected and shipped with the exterior face of the exterior Deck beam after back beam and final position.



**STRESSES**

$f_c = 4,500$  psi  
 $f_s = 1,800$  psi  
 $f_s = 20,000$  psi  
 $n = 8$   
**LOADING HS-20**

**BILL OF MATERIAL**

Item	Unit	Quantity
Precast Concrete Bridge Slab	Sq. Ft.	29.7
Portland Cement Concrete Pavement (10")	Sq. Yds.	9.7
Pavement Fabric	Sq. Yds.	9.7
Expansion Bolts 3/8"	Each	51
Class X Concrete	Cu. Yds.	1.5

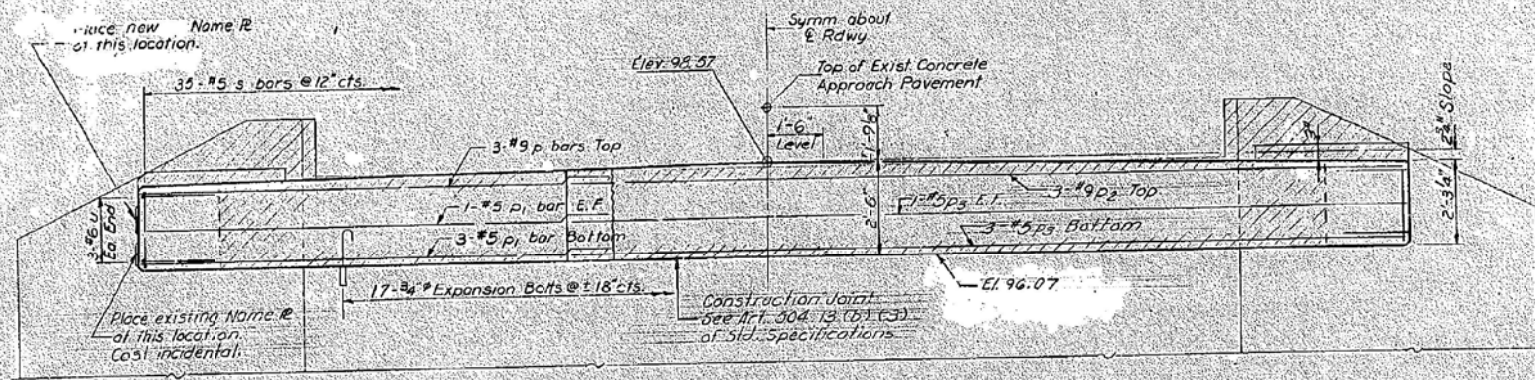
**APPROACH DETAILS**

S.B.I. RT-30 SEC. 8 BR  
 PEORIA COUNTY  
 STA. 635+60

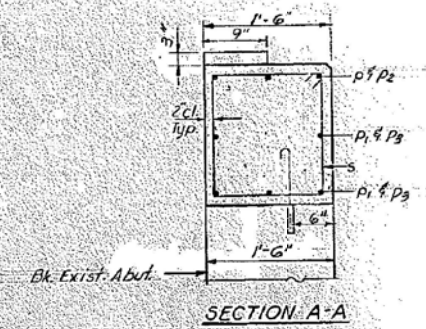
DESIGNED <i>Ben Robinson</i>	EXAMINED <i>[Signature]</i>
CHECKED <i>[Signature]</i>	PASSED <i>[Signature]</i>
DRAWN <i>J.L. Armstrong</i>	APPROVED <i>[Signature]</i>
CHECKED <i>[Signature]</i>	INTEGRITY OF RECORD

AD-1 20' Precast Appr. Unit (F1-L)

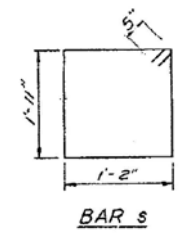
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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 11/28/2016	DRAWN -	REVISED -
	CHECKED -	REVISED -



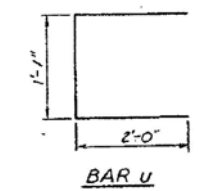
ELEVATION  
LOOKING EAST



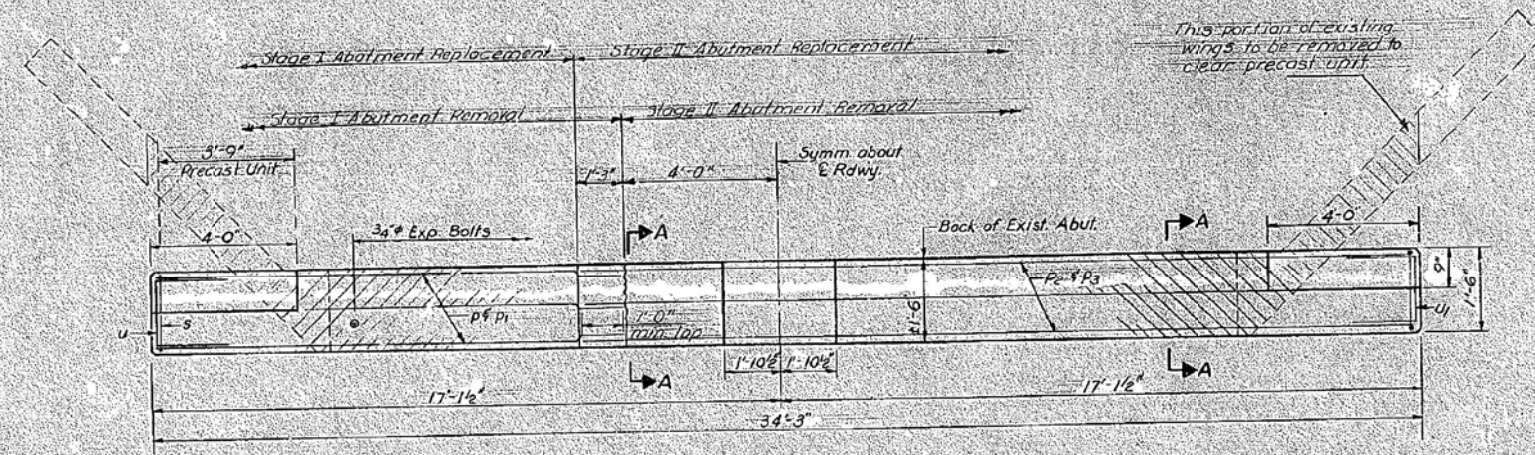
SECTION A-A



BAR S



BAR U



PLAN

**EAST ABUTMENT  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
p	3	#9	12'-9"	—
p1	5	#5	12'-9"	—
p2	3	#9	22'-0"	—
p3	5	#5	22'-0"	—
s	35	#5	7'-0"	□
u	6	#6	5'-11"	□
Class X Concrete		Cu.Yds.	4.6	
Reinforcement Bars		Lbs	831	
Expansion Bolts #3/8"		Each	17	
Concrete Removal		Cu.Yds	5	

DESIGNED *Dev Robinson*  
 CHECKED *J.L. Armstrong*  
 DRAWN *J.L. Armstrong*  
 CHECKED *J.L. Armstrong*

EXAMINED *[Signature]*  
 PASSED *[Signature]*  
 APPROVED *[Signature]*

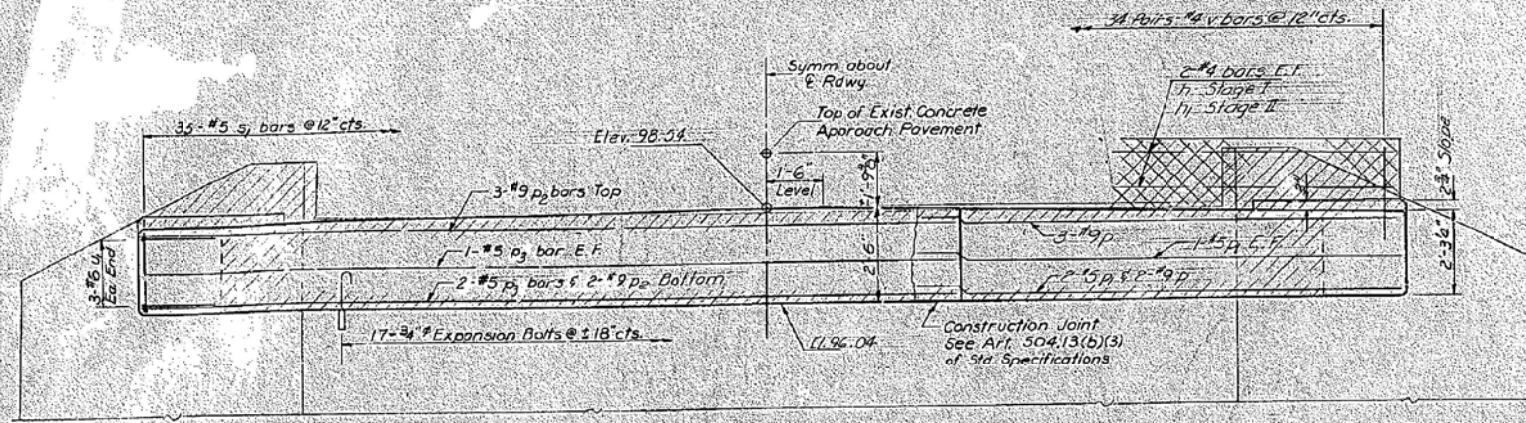
July 6 1971

NOTE  
 Hatched area indicates Concrete Removal. Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.  
 Expansion bolts shall be anchored in sound concrete.  
 All edges of all have standard 3/4" chamfers except as noted.

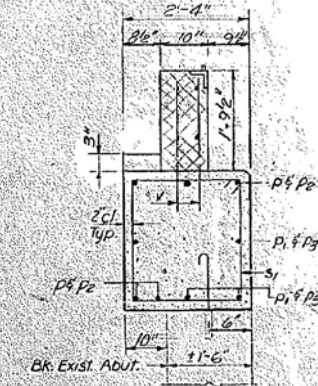
EAST ABUTMENT  
 SBT RT 30 SEC 8 BF  
 PEORIA COUNTY  
 STA 535+60

FILE NAME = H:\P\29048\NO.12 51872-0247.IL 90 & 91 over Prince Creek Phase II PSE\Structural\Final Plans\Miscstation\0720247-68668-027-Existing Bridge Plans for Information Only.dgn

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
30	7B	Peoria	17	17
SHEETS				



ELEVATION



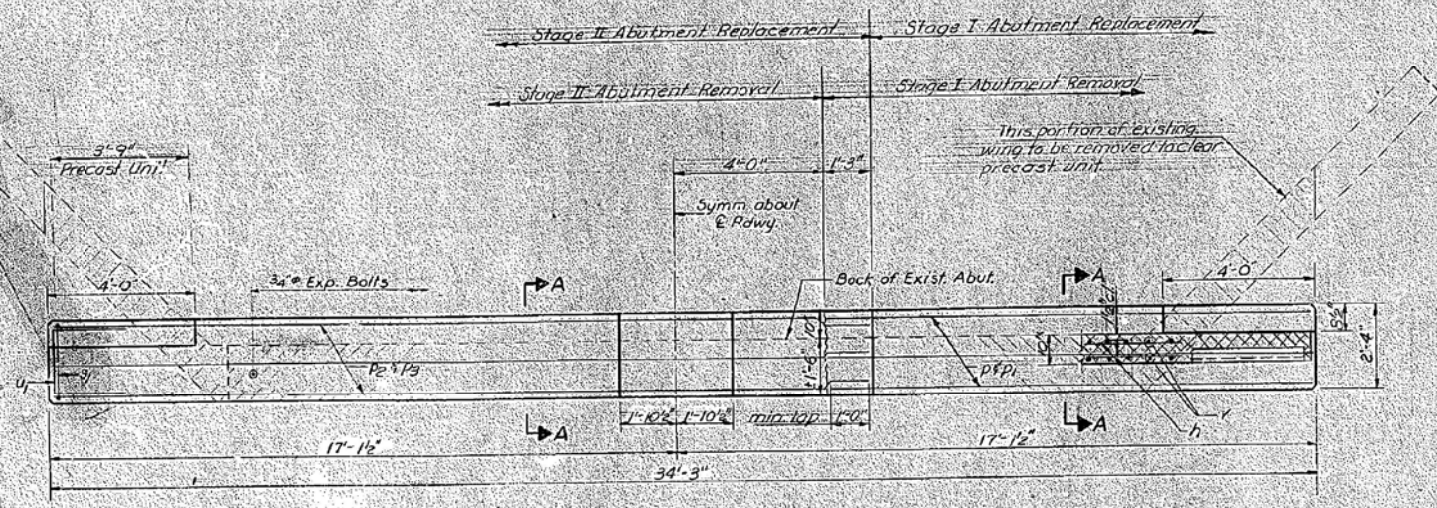
SECTION A-A



BAR S



BAR U



PLAN

WEST ABUTMENT  
BILL OF MATERIAL

BAR NO.	SIZE	Length	Shape
h	#4	12'-6"	
h <sub>1</sub>	#4	21'-9"	
P	#9	12'-9"	
P <sub>1</sub>	#5	12'-9"	
P <sub>2</sub>	#9	22'-0"	
P <sub>3</sub>	#5	22'-0"	
S	#5	0'-8"	19
U	#6	5'-11"	
V	#4	3'-0"	
Class X Concrete - Cu Yds 3.0			
Reinforcement Bars - Lbs 1320			
Expansion Bolts 3/4" Each 17			
Concrete Removal - Cu Yds 5			

DESIGNED *Dev Robinson*  
 CHECKED *J.B. H...*  
 DRAWN *J.L. Armstrong*  
 CHECKED *...*

EXAMINED *J.L. Armstrong*  
 PASSED *BKR*  
 APPROVED *J.L. Armstrong*  
 DIRECTOR OF HIGHWAYS

JUL 6 1971

NOTE  
 Hatched area indicates Concrete Removal. Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.  
 Expansion bolts shall be anchored in sound concrete.  
 All edges shall have standard 3/4" chamfers except as noted.

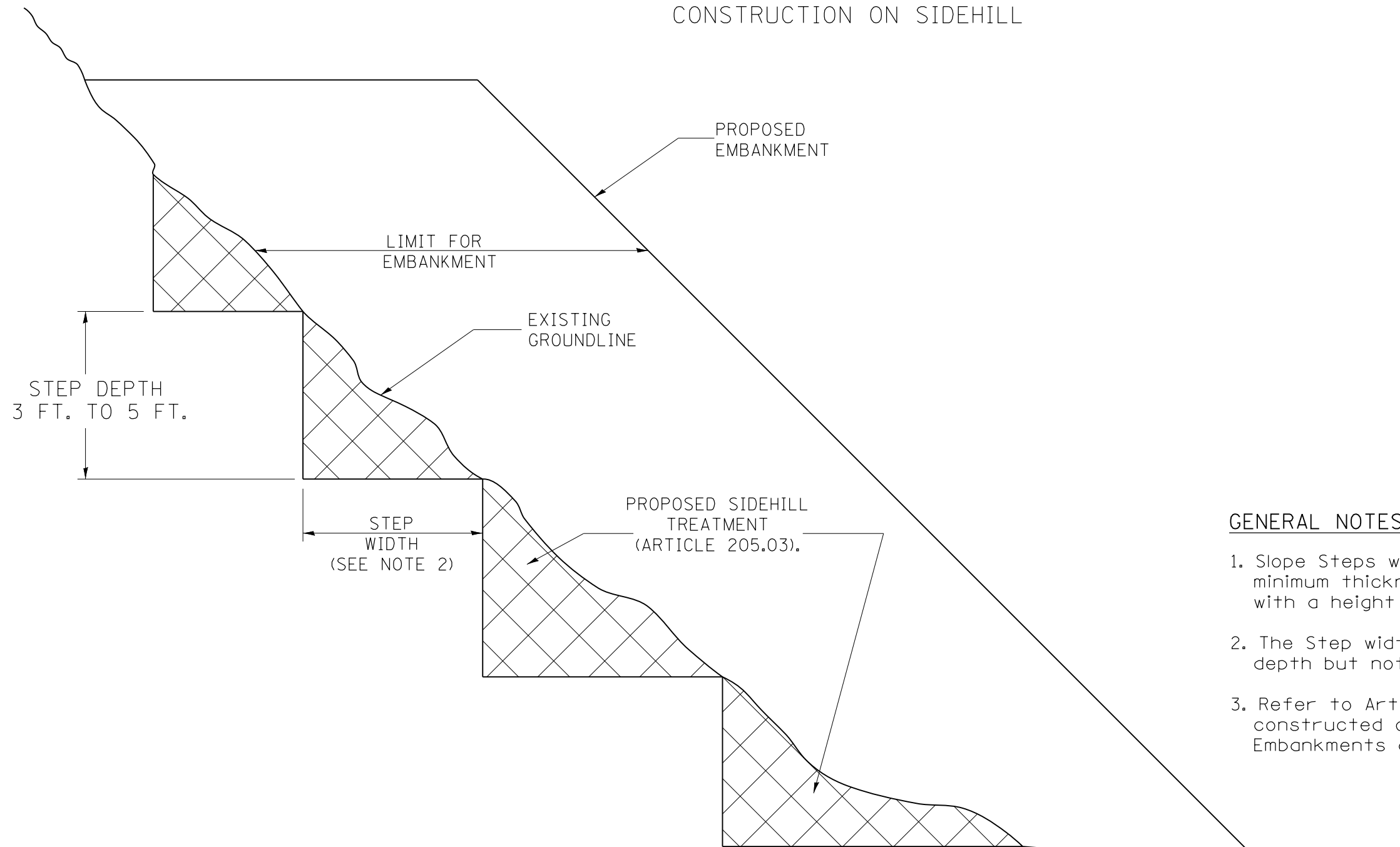
WEST ABUTMENT  
 S.R. 2730 SEC. 8 ER  
 PEORIA COUNTY  
 STA. 535+60

FILE NAME = H:\P\29048\NO.12\_SIN972-0247\_IL\_90 & 91 over Prince Creek Phase II PSE\Structural\Final Plans\Miscstation\028247-68668-028-Existing Bridge Plans for Information Only.dgn

USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 11/28/2016	DRAWN -	REVISED -
	CHECKED -	REVISED -

# SLOPE STEPS DETAIL

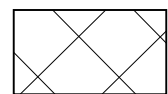
## TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



### GENERAL NOTES:

1. Slope Steps will be required for all 12" minimum thickness "sliver fills" and on fills with a height of 10'(3.0m).
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

### REPLACEMENT MATERIAL:



STANDARD EMBANKMENT  
(IN ACCORDANCE WITH  
205 OF THE STANDARD SPECIFICATION).

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

1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE	T.P.
	BOX, REVISED GENERAL NOTES.	
10-16-06	REVISED TO 2007 SPEC.	M.A.

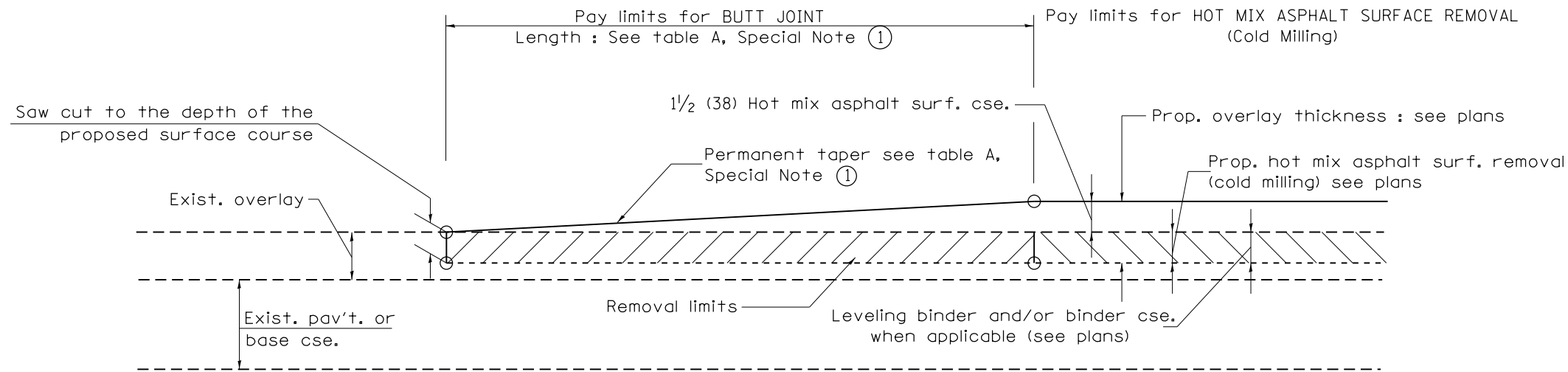
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

**DISTRICT 4 STANDARDS  
SLOPE STEPS DETAIL**

CADD STD. 205001-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	52
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68668	



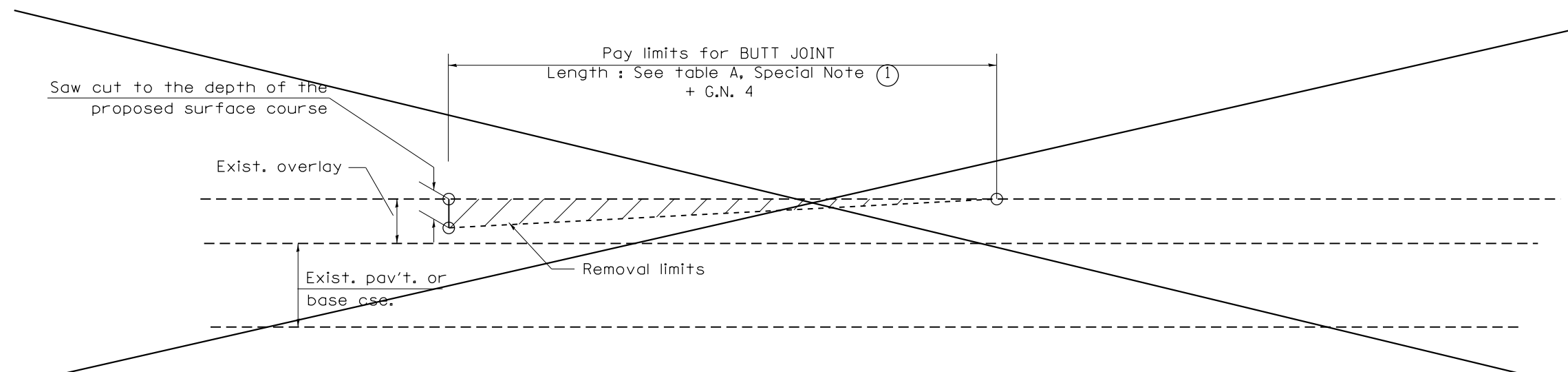
**CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**

**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.



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

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

01-01-97	RENUM. C-23.01, NEW REVISION BOX	T.P.
04-01-97	CORRECTION TO DEPTH	J.A.
09-15-05	REVISED DESIGNER NOTE	M.M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

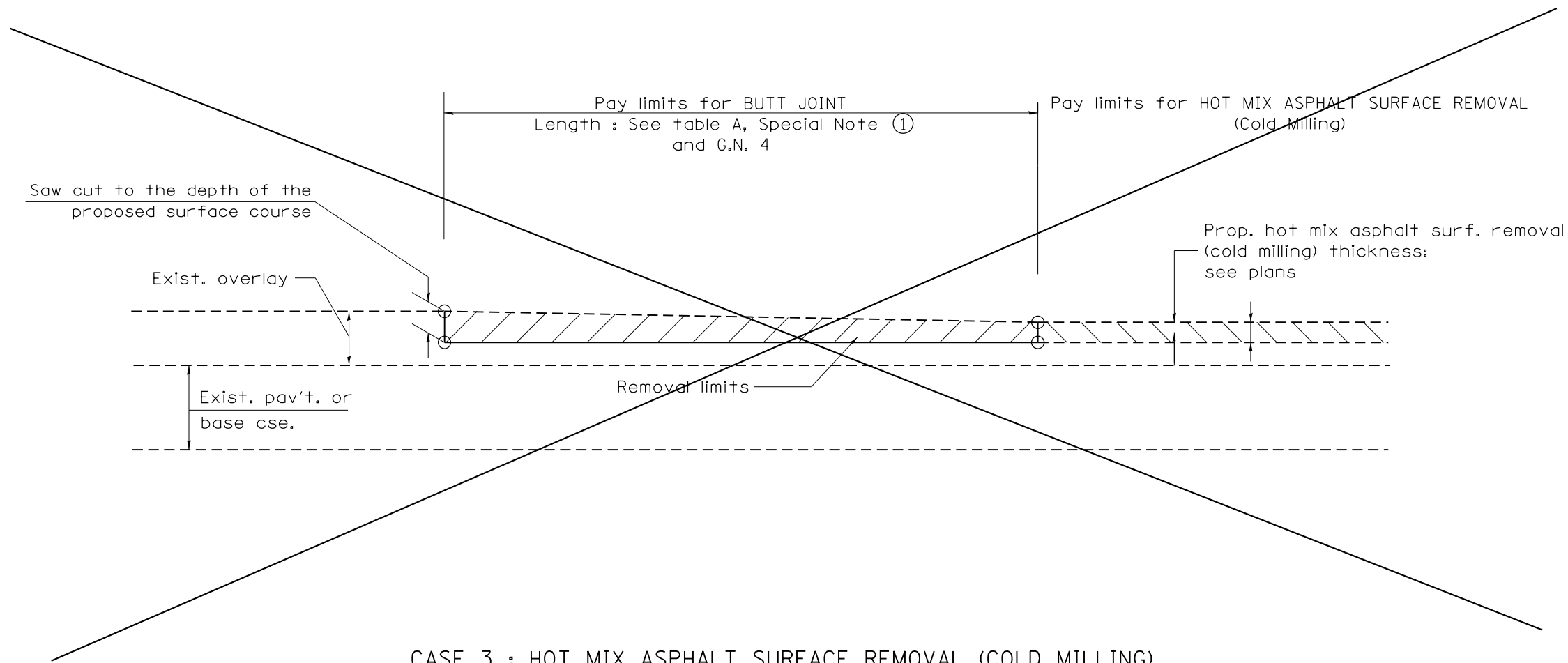
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

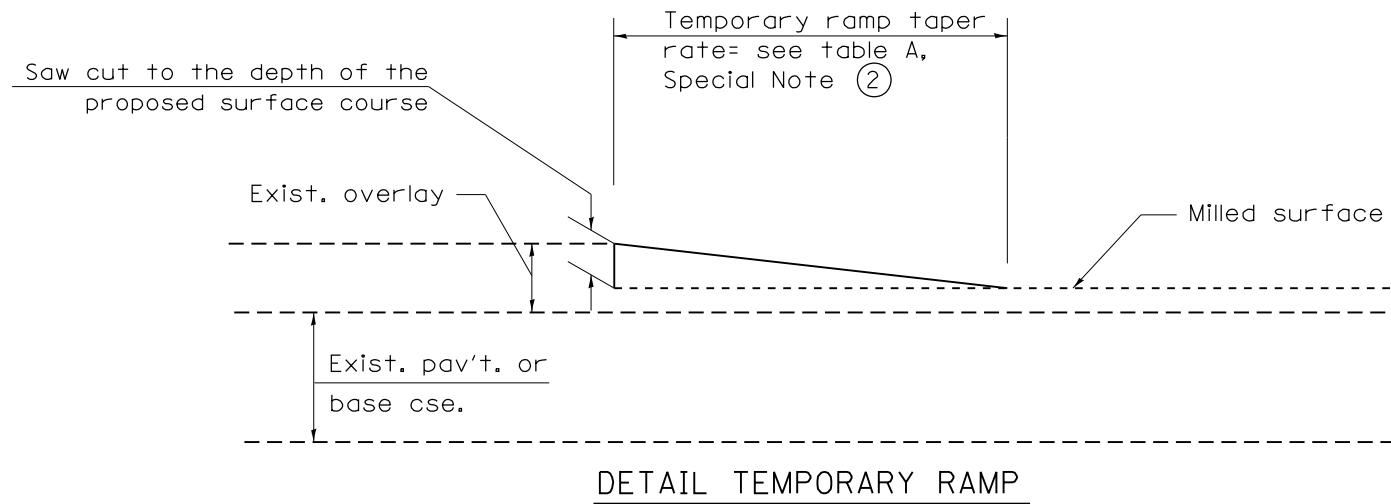
**DISTRICT 4 STANDARDS  
BUTT JOINTS**

SHT. 1 OF 3  
CADD STD. 406101-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	53
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68668	



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



DETAIL TEMPORARY RAMP

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

01-01-97	RENUM. C-23.01, NEW REVISION BOX	T.P.
04-01-97	CORRECTION TO DEPTH	J.A.
09-15-05	REVISED DESIGNER NOTE	M.M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

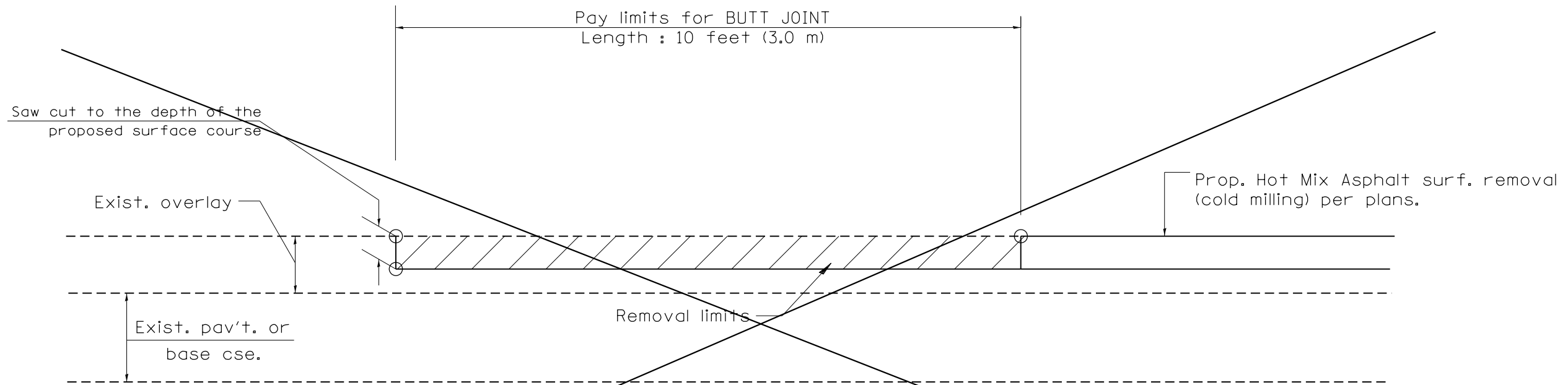
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

DISTRICT 4 STANDARDS  
 BUTT JOINTS

SHT. 2 OF 3  
 CADD STD. 406101-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	54
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68668	



**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.

01-01-97	RENUM. C-23.01, NEW REVISION BOX	T.P.			
04-01-97	CORRECTION TO DEPTH	J.A.			
09-15-05	REVISED DESIGNER NOTE	M.M.A.			
10-16-06	REVISED TO 2007 SPEC.	M.A.			

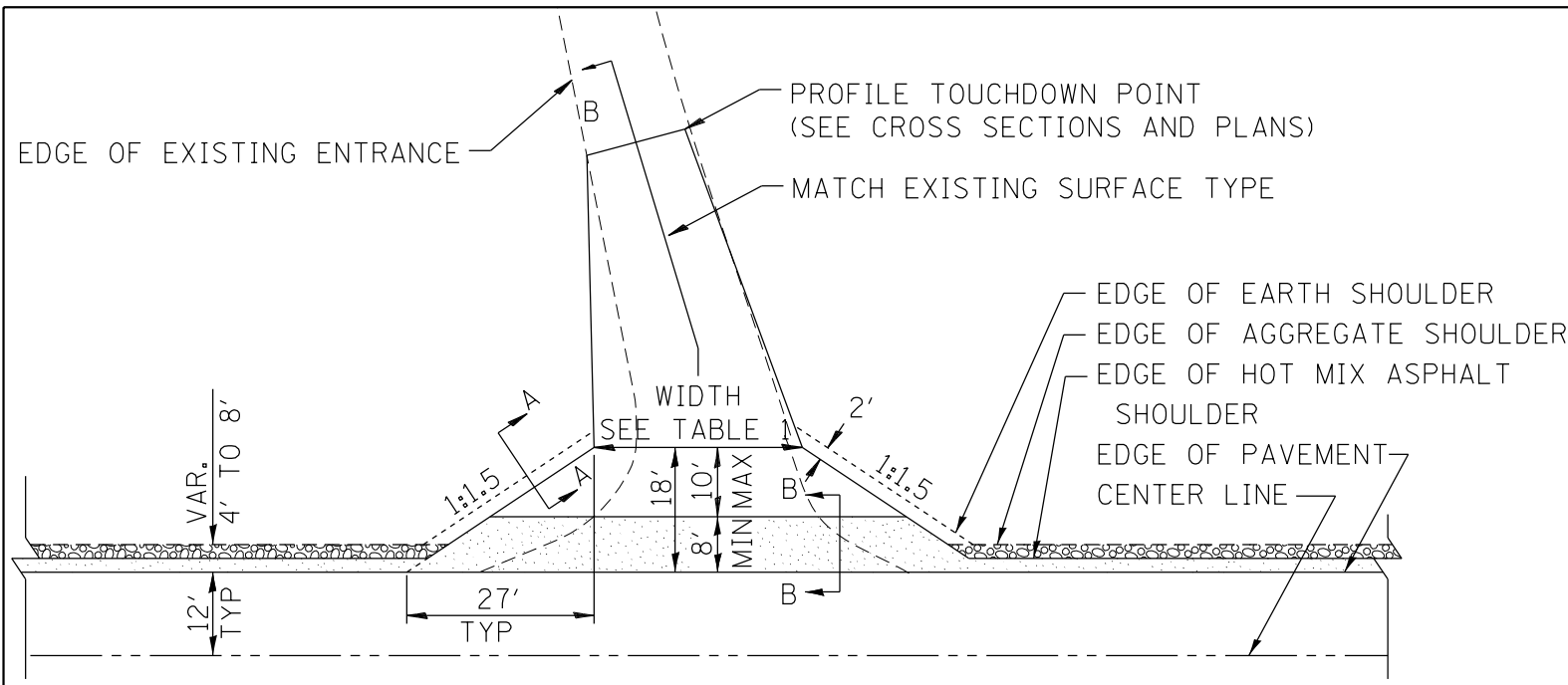
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

**DISTRICT 4 STANDARDS  
BUTT JOINTS**

SHT. 3 OF 3  
CADD STD. 406101-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	55
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68668	



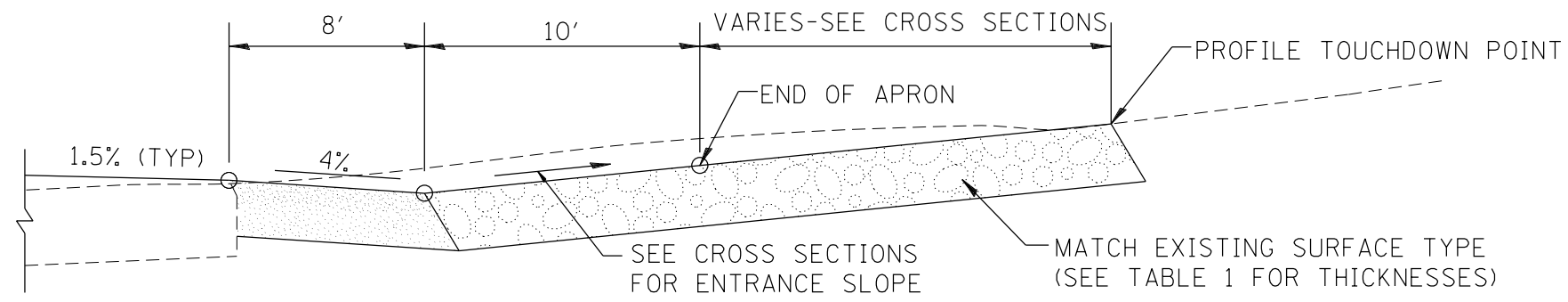
HOT MIX ASPHALT SHOULDER, 8"  
 AGGREGATE SHOULDER, TYPE B, 6"

**PLAN**

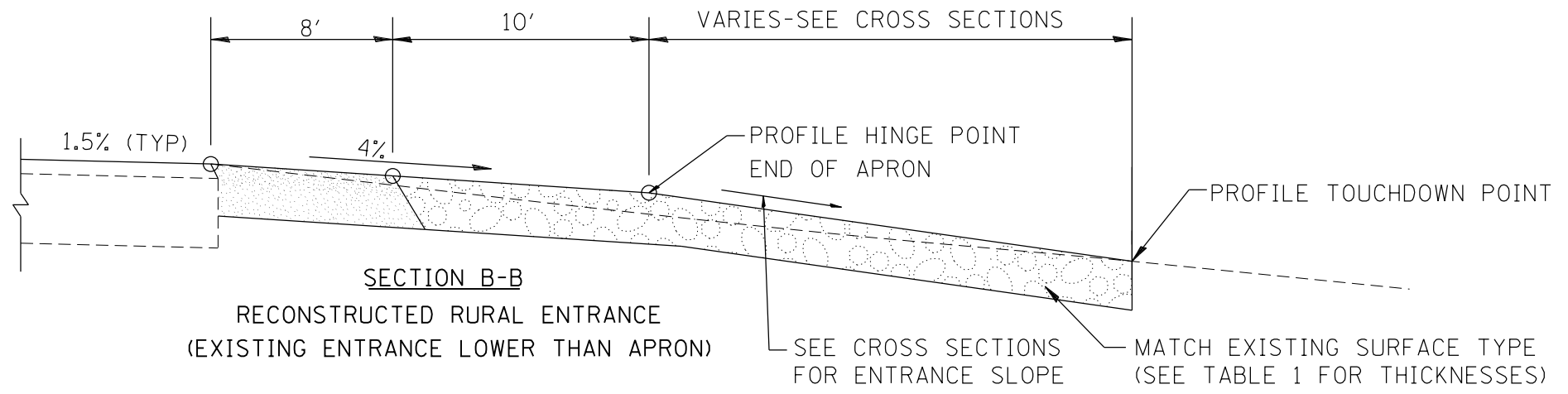
COMMERCIAL / FARM-RELATED ENTRANCE

TABLE 1					
RURAL ENTRANCE DESIGN					
ELEMENT	NON-COMMERCIAL		NON-COMMERCIAL W/ LARGE FARM EQUIPMENT	COMMERCIAL	
	12'(3.6m) Min.	24'(7.2m) Max.	20' (6.1m)Max.	30' (9.0m)Max.	
WIDTH (W)	12'(3.6m) Min.	24'(7.2m) Max.	20' (6.1m)Max.	30' (9.0m)Max.	14'(4.3m) Min., 24'(7.2m) Max., 24'(7.2m) Min., 35'(10.7m) Max.
FLARE	1:1.5				
MAX. GRADE (G)	12%		12%		10%

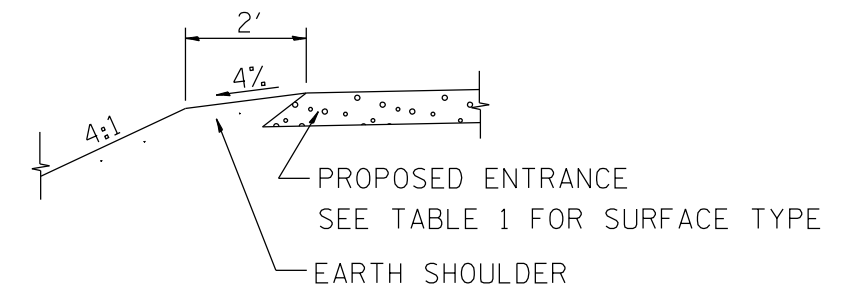
SURFACE TYPE				
INCIDENTAL HOT MIX ASPHALT SURFACING	6"	—	—	8"
AGGREGATE SURFACE COURSE	6"	8"	—	—
PCC DRIVEWAY PAVEMENT	6"	—	—	7"



SECTION B-B  
RECONSTRUCTED RURAL ENTRANCE  
(EXISTING ENTRANCE HIGHER THAN APRON)



SECTION B-B  
RECONSTRUCTED RURAL ENTRANCE  
(EXISTING ENTRANCE LOWER THAN APRON)



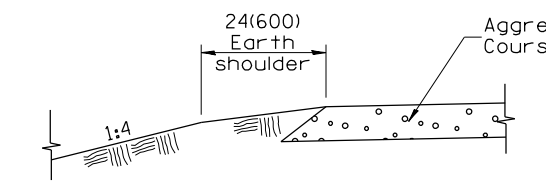
SECTION A-A  
SHOULDER TREATMENT FOR RURAL ENTRANCES

GENERAL NOTES

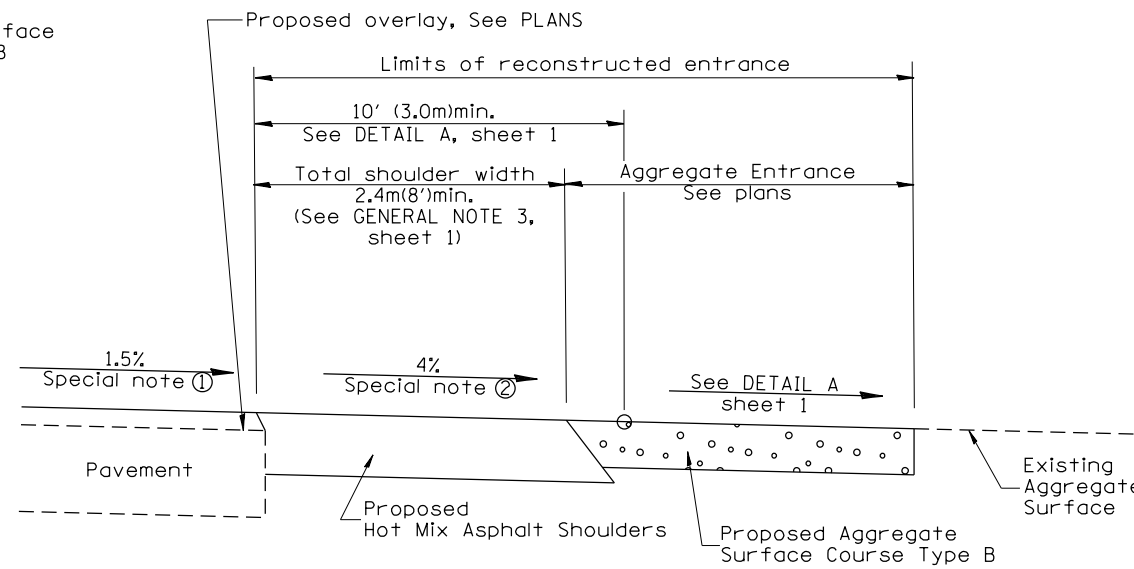
- ENTRANCES SHALL SLOPE AWAY FROM THE PAVEMENT AT A RATE EQUAL TO THE SHOULDER SLOPE FOR A MINIMUM DISTANCE OF 8'.
- A MINIMUM 8' PAVED SHOULDER SHALL BE CONSTRUCTED BETWEEN LOCATIONS WHERE THE RURAL ENTRANCE IS LESS THAN 50' FROM AN ADJACENT SIDEROAD, ENTRANCE OR MAILBOX TURNOUT.
- A TAPER RATE OF 5:1 IS DESIRABLE WHEN TRANSITING FROM THE RURAL ENTRANCE WIDTH SHOWN IN TABLE 1, TO THE EXISTING ENTRANCE WIDTH.

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

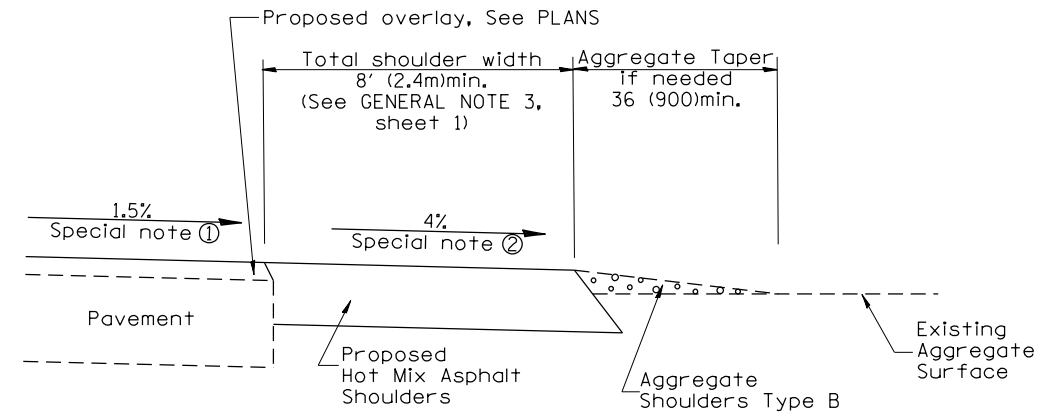




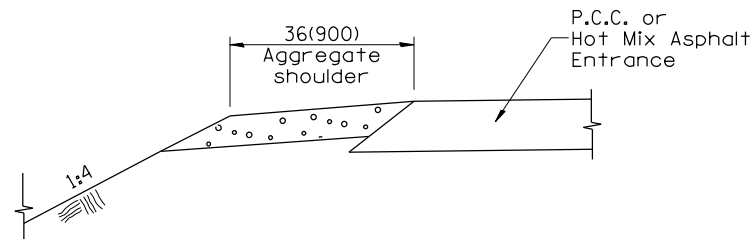
**SECTION A-A**  
SHOULDER TREATMENT FOR AGGREGATE ENTRANCES



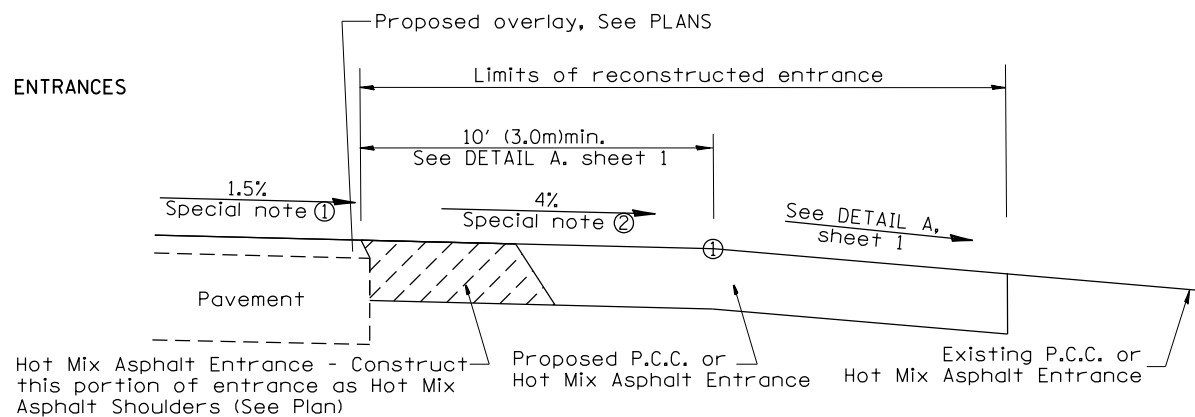
**SECTION B-B**  
RECONSTRUCTED AGGREGATE ENTRANCE



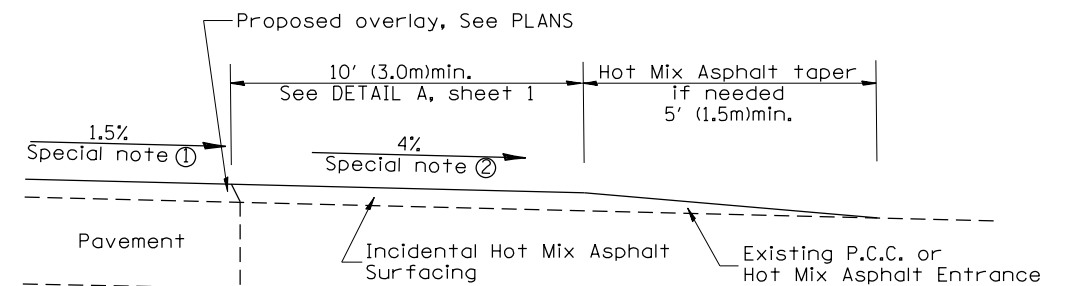
**SECTION B-B**  
EXISTING AGGREGATE ENTRANCE



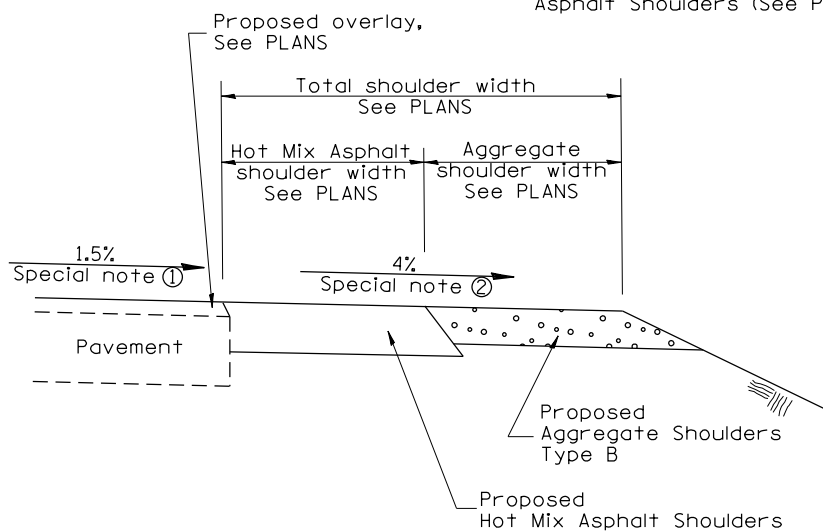
**SECTION C-C**  
SHOULDER TREATMENT FOR P.C.C. OR HOT MIX ASPHALT ENTRANCES



**SECTION D-D**  
RECONSTRUCTED P.C.C. OR HOT MIX ASPHALT ENTRANCE



**SECTION D-D**  
EXISTING P.C.C. OR HOT MIX ASPHALT ENTRANCE



**SECTION E-E**  
MAINLINE SHOULDER TREATMENT

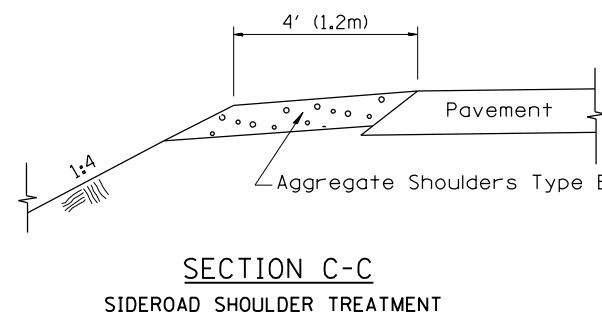
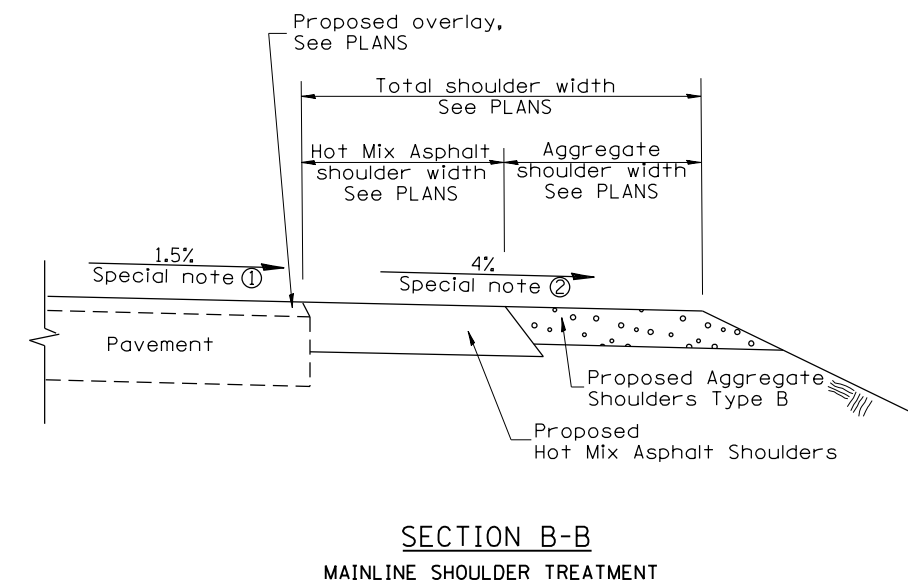
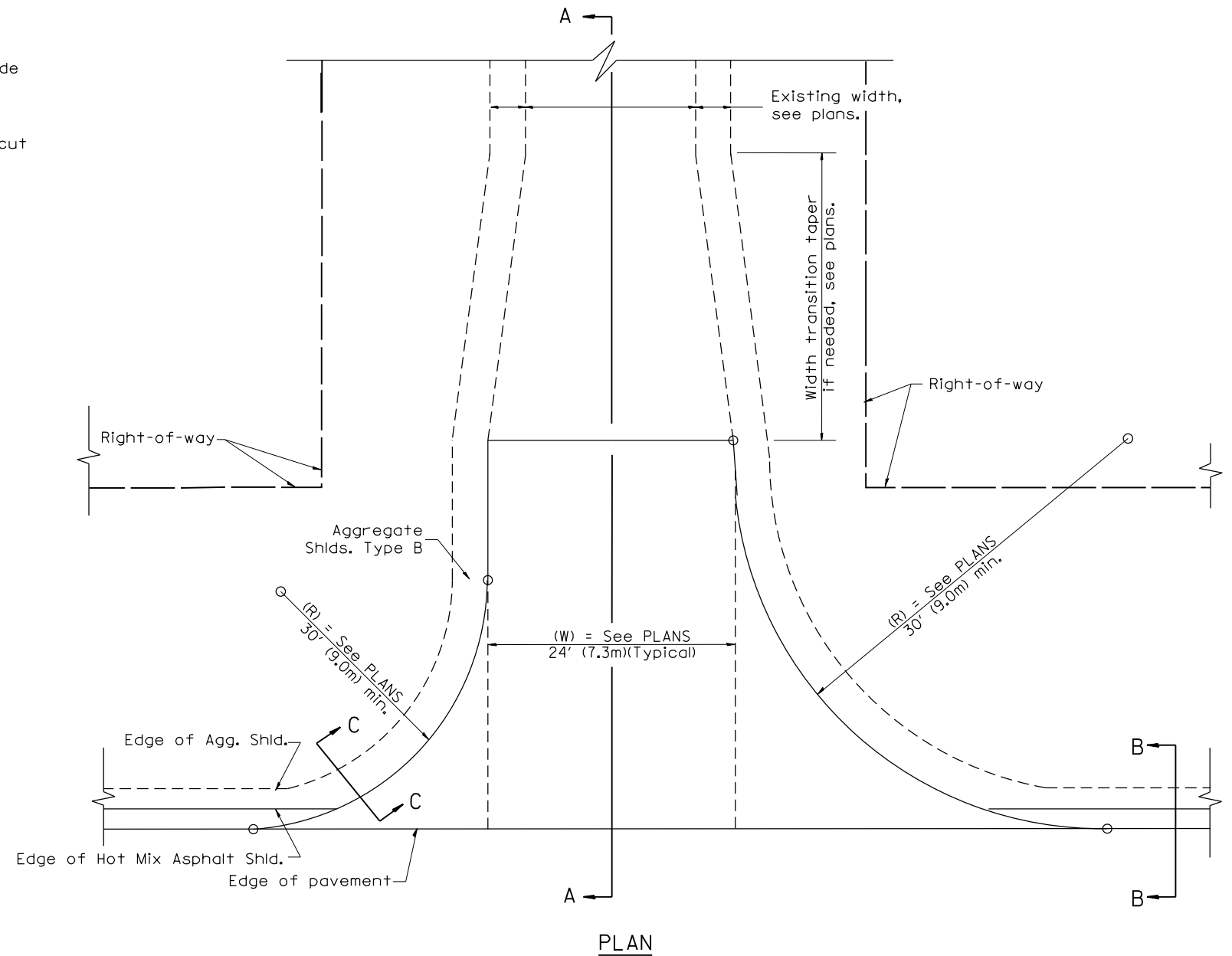
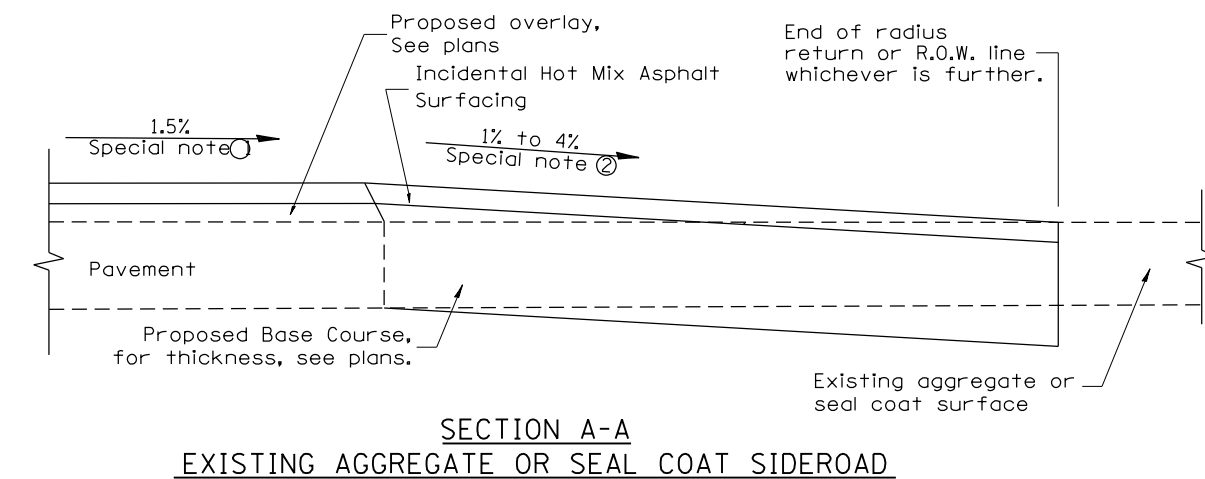
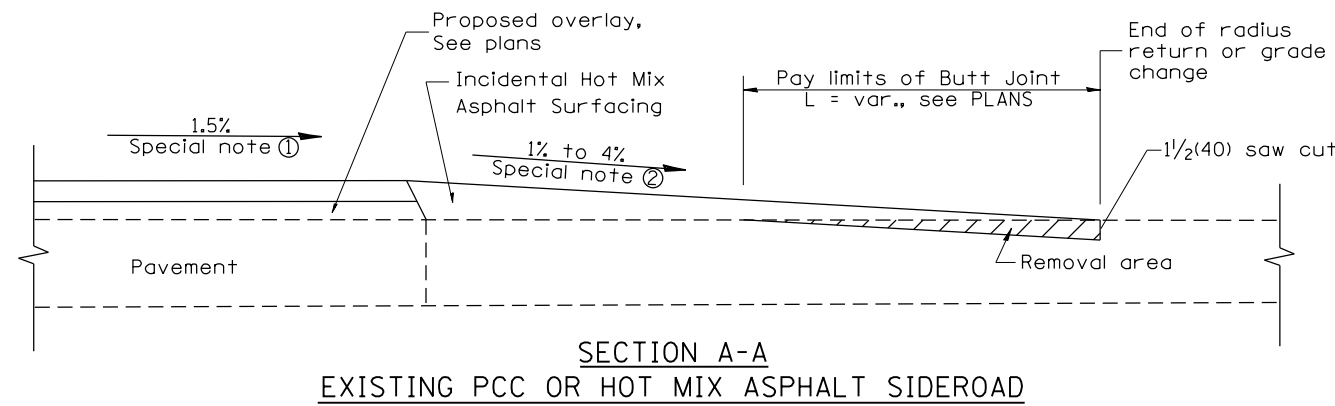
**SPECIAL NOTES**

- ① The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on super-elevated horizontal curves.
- ② The shoulder slope shall control the entrance profile for a distance of 10' (3.0m) minimum from the pavement edge. The shoulder cross-slope is 4% for tangent alignment. Through super-elevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 6' (1.8m) and wider and 12% for shoulders 4' (1.2m) and less. Where 12' (366cm) paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

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

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				RURAL ENTRANCES FOR "3R" PROJECTS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
								661	(8B)BR-1	PEORIA	71	57
NOT TO SCALE				SHT. 2 OF 2 CADD STD. 406301-D4				CONTRACT NO. 68668				
								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DESIGNER NOTES:  
1. DESIGNER SHOULD CONSULT CHAPTER 49 OF THE BDE MANUAL.



**SPECIAL NOTES**

- ① The mainline pavement cross-slope is 1.5% for tangent alignment. See Plans for cross-slope on superelevated horizontal curves.
- ② The sideroad profile should drain away from the mainline at 1% to 4% for 50' (15.0m) to 100' (30.0m), or as a minimum to the end of the radius return. When the sideroad is on the high side of a mainline superelevated curve, - 2% maximum should be provided in order to minimize breakover at the pavement edge. See plans for sideroad profiles.

01-01-97	RENUM. C-105.02, NEW REVISION BOX	T.P.		
07-01-97	REVISE DESIGNER NOTES	J.A.		
09-15-05	REVISED DESIGNER NOTE	M.M.A.		
10-16-06	REVISED TO 2007 SPEC.	M.A.		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

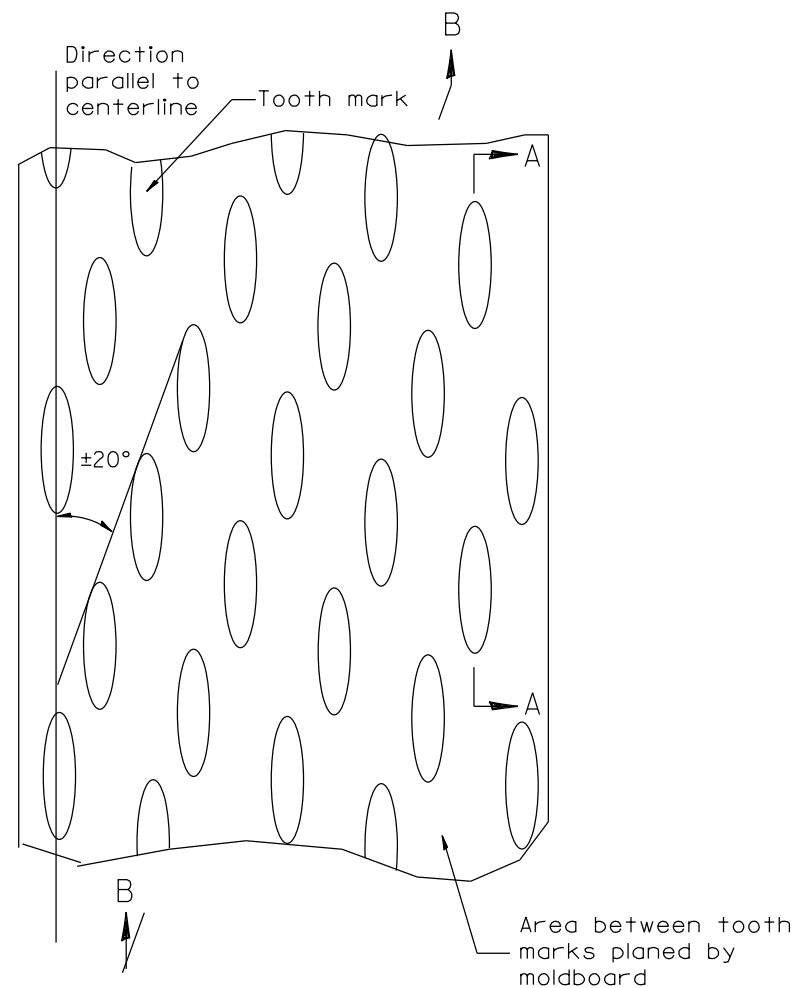
**RURAL SIDEROADS FOR "3R" PROJECTS**

NOT TO SCALE

CADD STD. 406401-D4

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

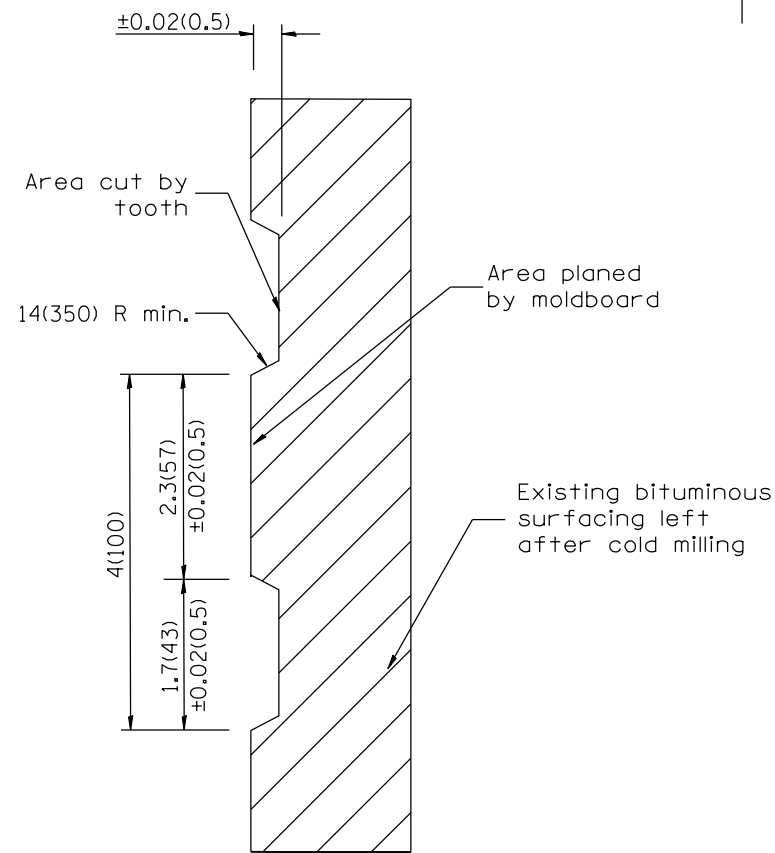
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	58
CONTRACT NO. 68668				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



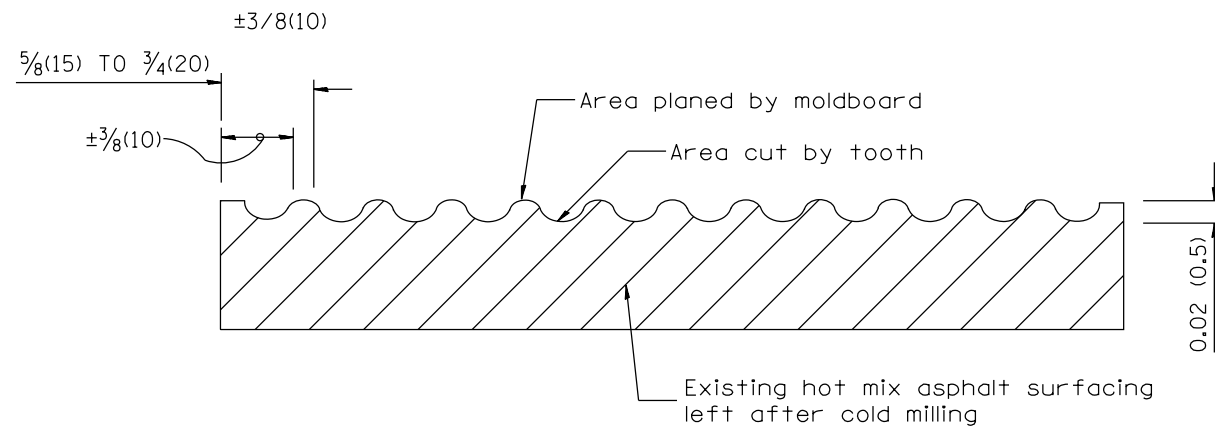
PLAN

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

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

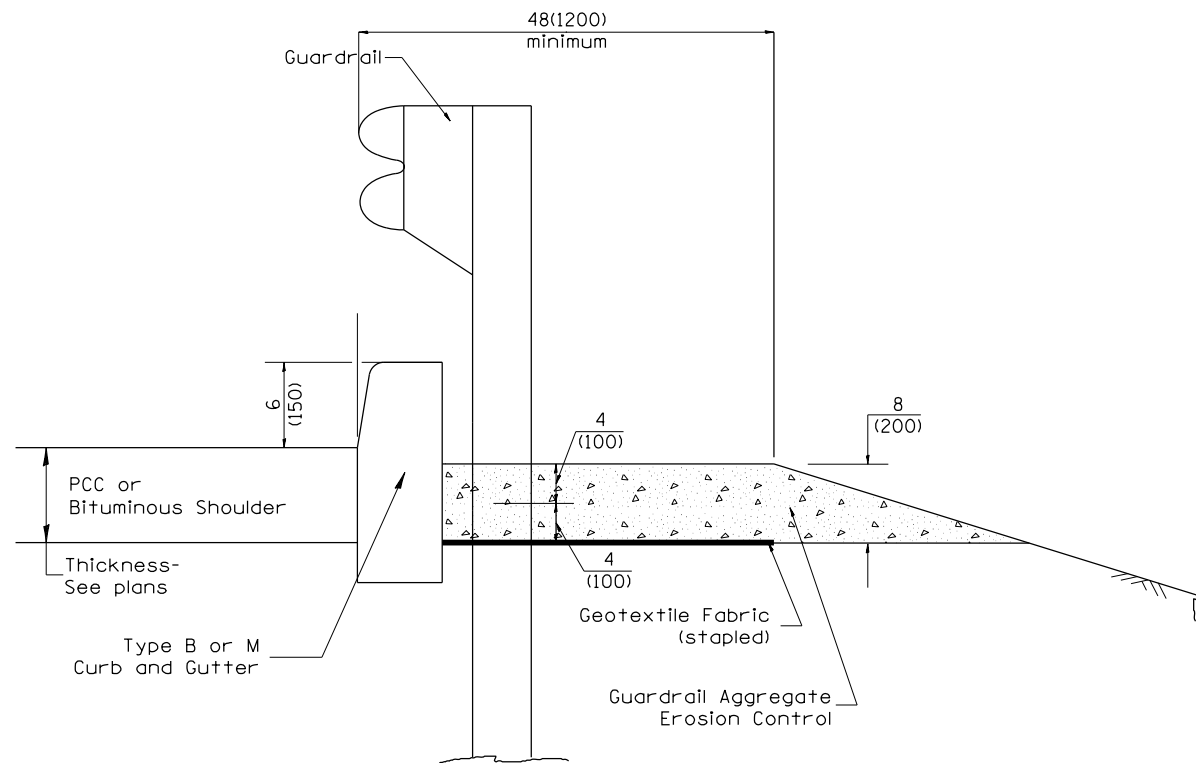
01-01-97	RENUM. C-104.01, NEW REVISION BOX	T.P.
04-20-98	REMOVED MILLING DETAIL FROM STANDARD	J.A.
09-08-98	CORRECT NOTE LEADER PLACEMENT	R.W.
10-16-06	REVISED TO 2007 SPEC.	M.A.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT 4 STANDARDS  
HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
NOT TO SCALE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	59
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68668	

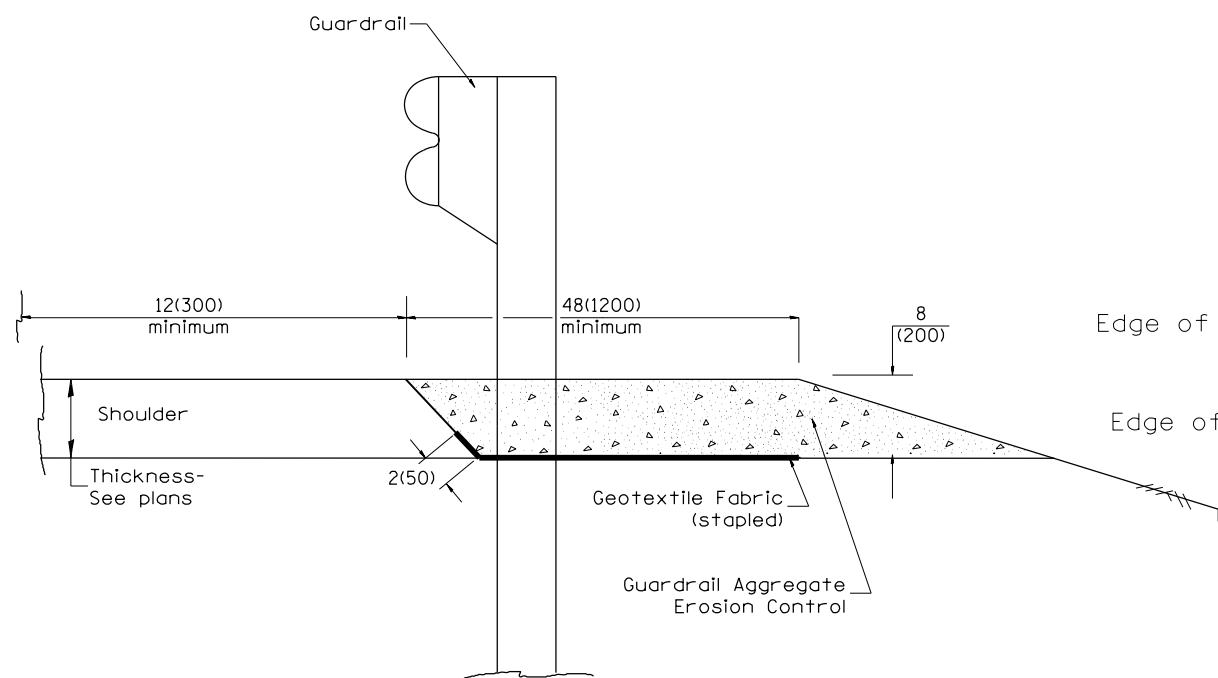
CADD STD. 440001-D4



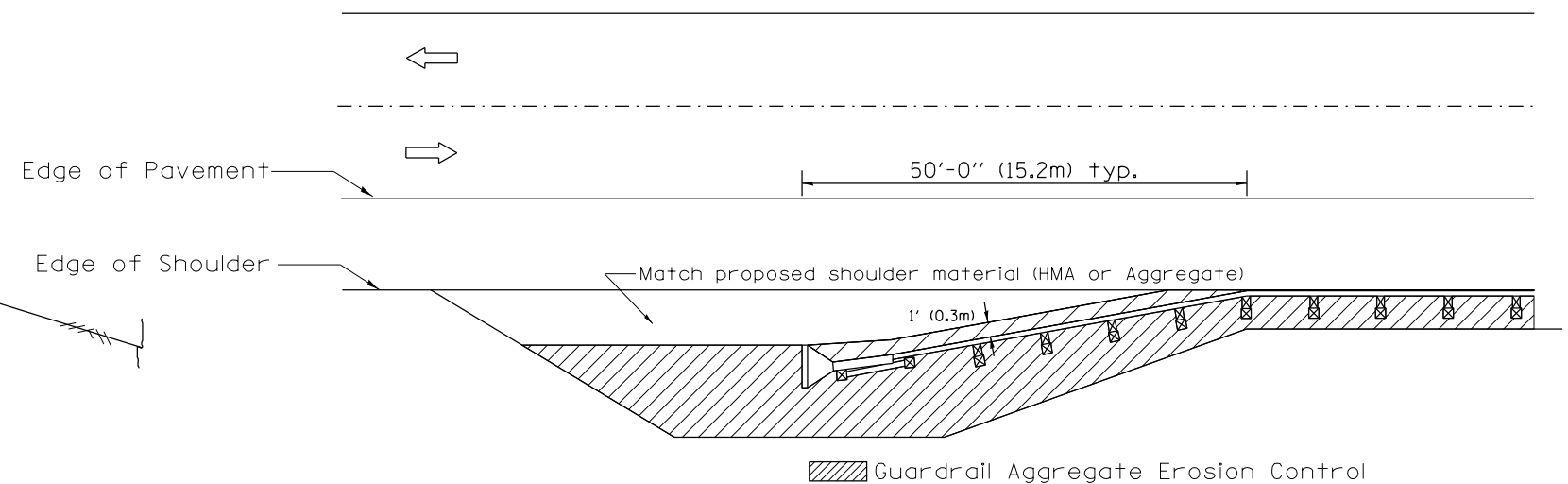
TYPICAL SECTION WITH EROSION CONTROL CURB

**GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL**

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



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

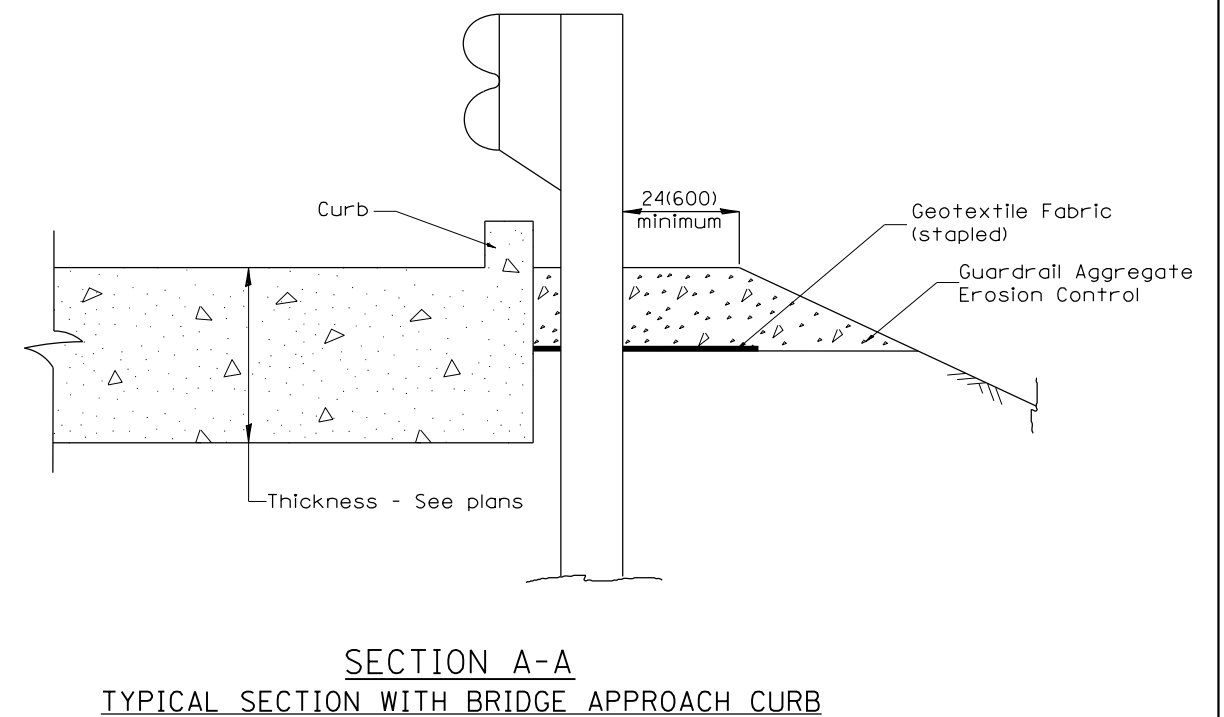
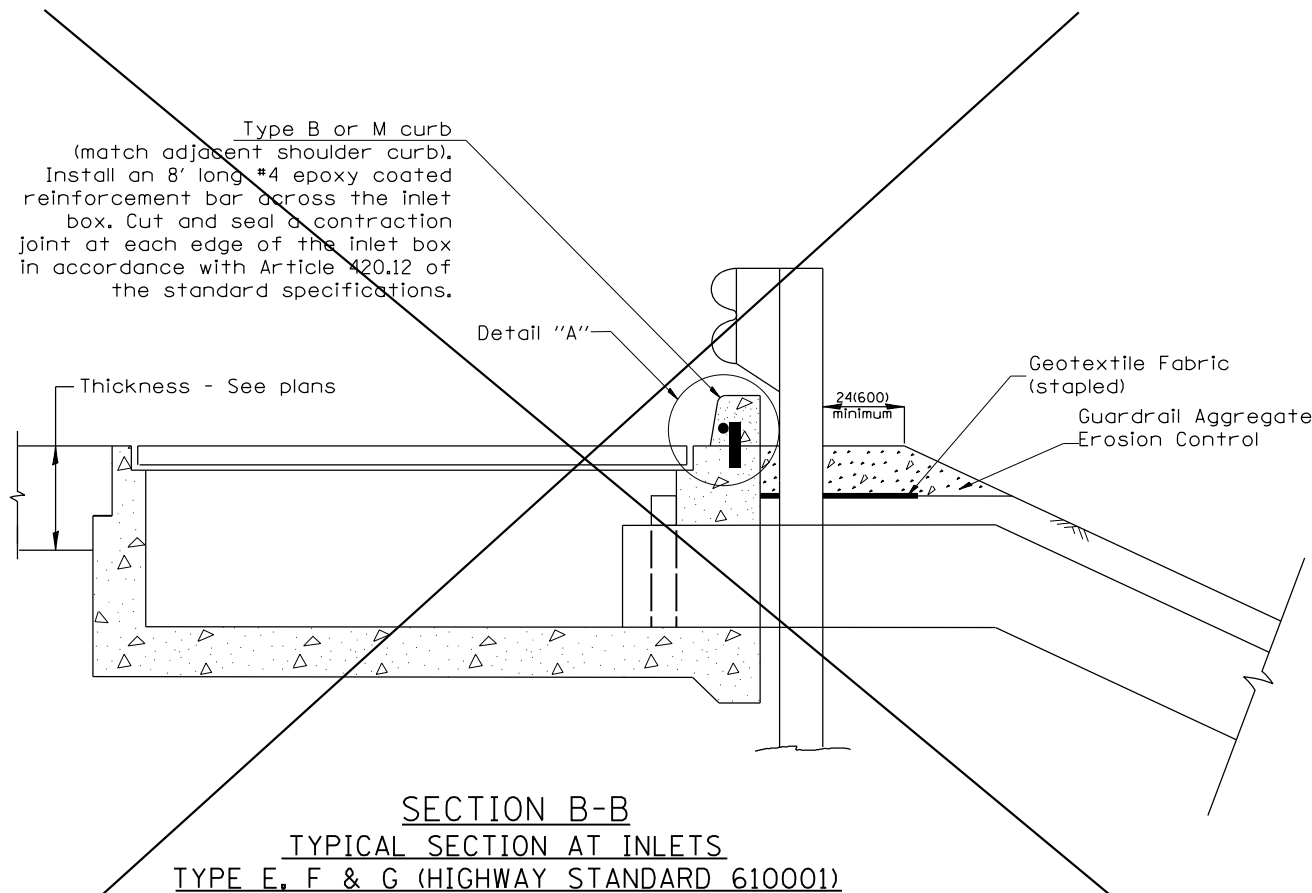
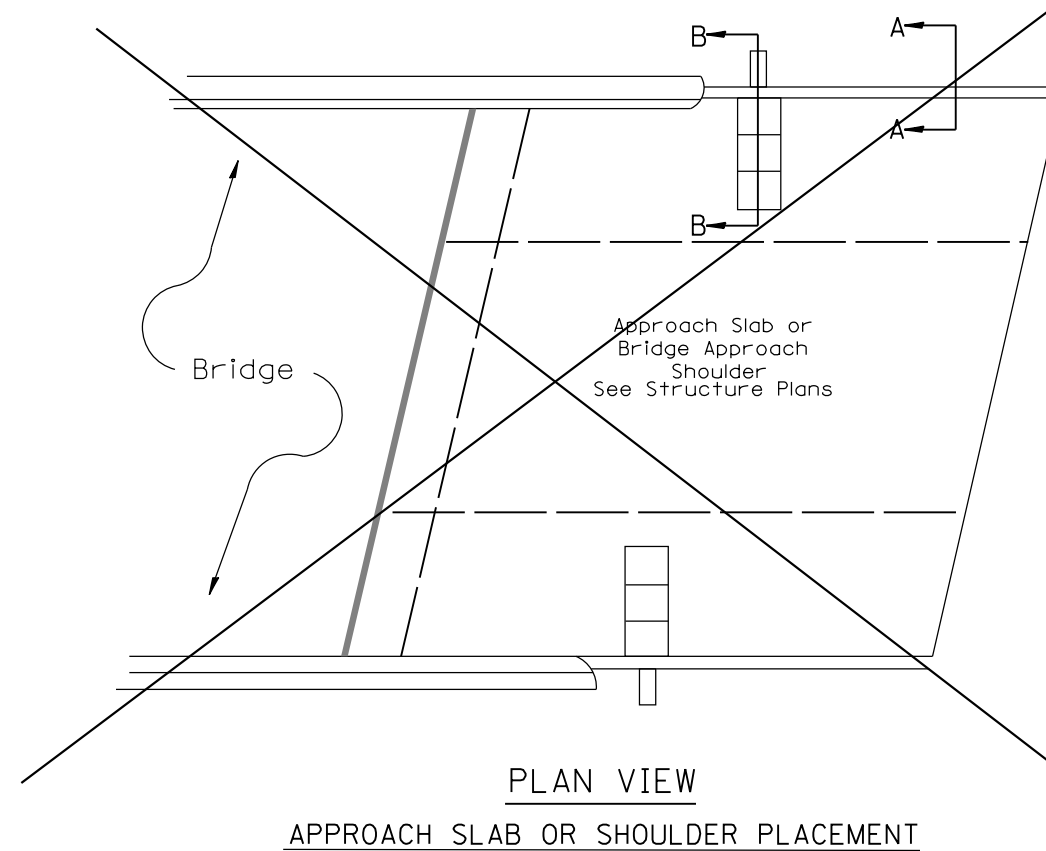
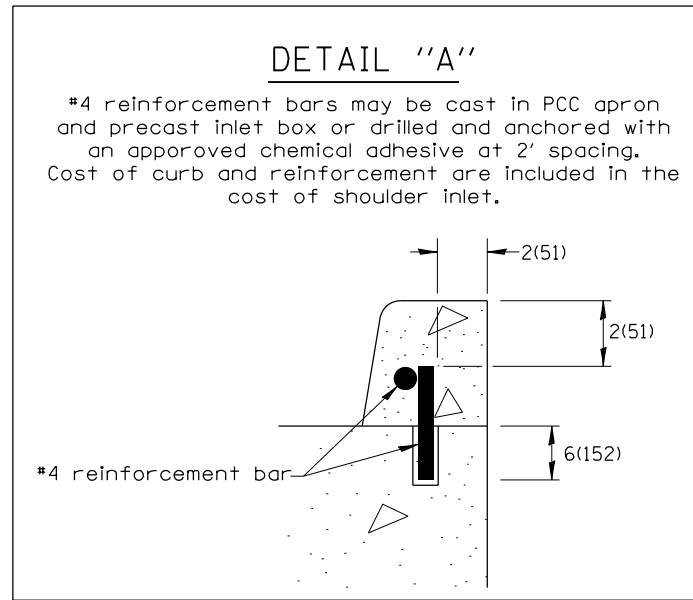


All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-22.01, NEW REVISION BOX	T.P.				<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT 4 STANDARDS GUARDRAIL EROSION CONTROL TREATMENTS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
03-01-97	CORRECT STD. NUMBERS IN NOTES PG. 2	J.A.						661	(8B)BR-1	PEORIA	71	60	
11-03-00	CORRECTION TO NOTES	M.A.						CONTRACT NO. 68668					
10-16-06	REVISED TO 2007 SPEC.	M.A.						ILLINOIS FED. AID PROJECT					

NOT TO SCALE

SHT. 1 OF 2  
CADD STD. 630101-D4



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

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

NOT TO SCALE

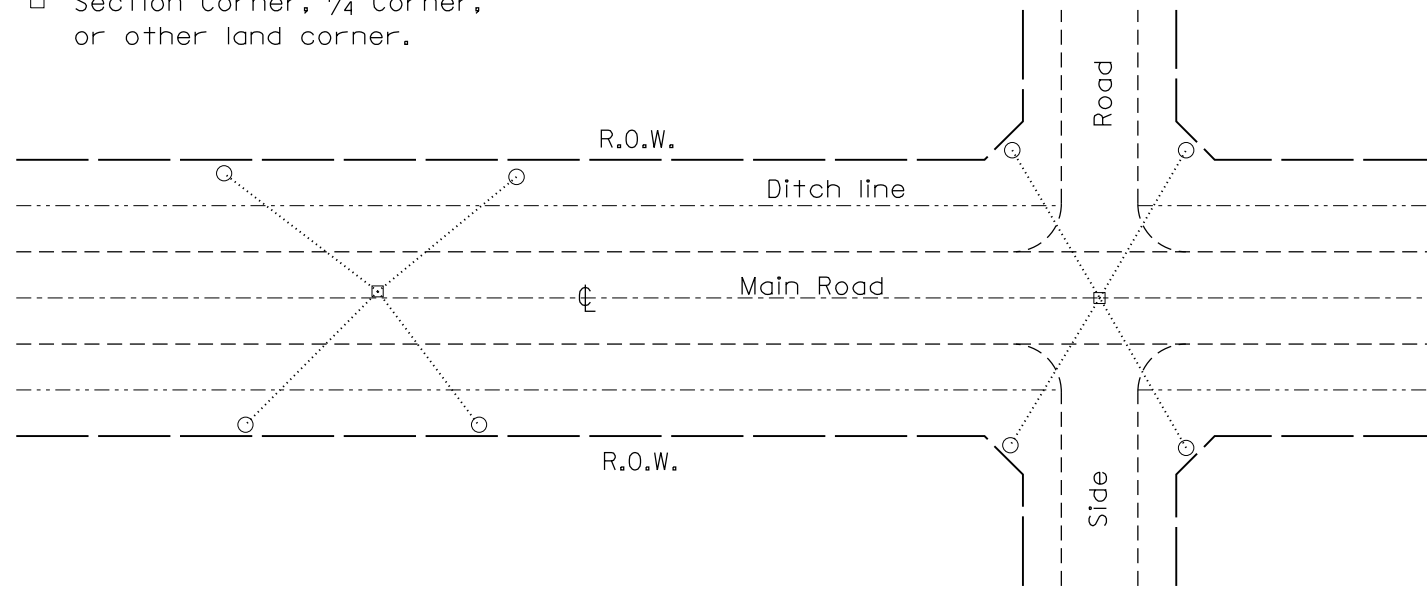
**DISTRICT 4 STANDARDS**  
**GUARDRAIL EROSION CONTROL TREATMENTS**

SHT. 2 OF 2  
CADD STD. 630101-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	61
CONTRACT NO. 68668				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**PERMANENT SURVEY TIES**

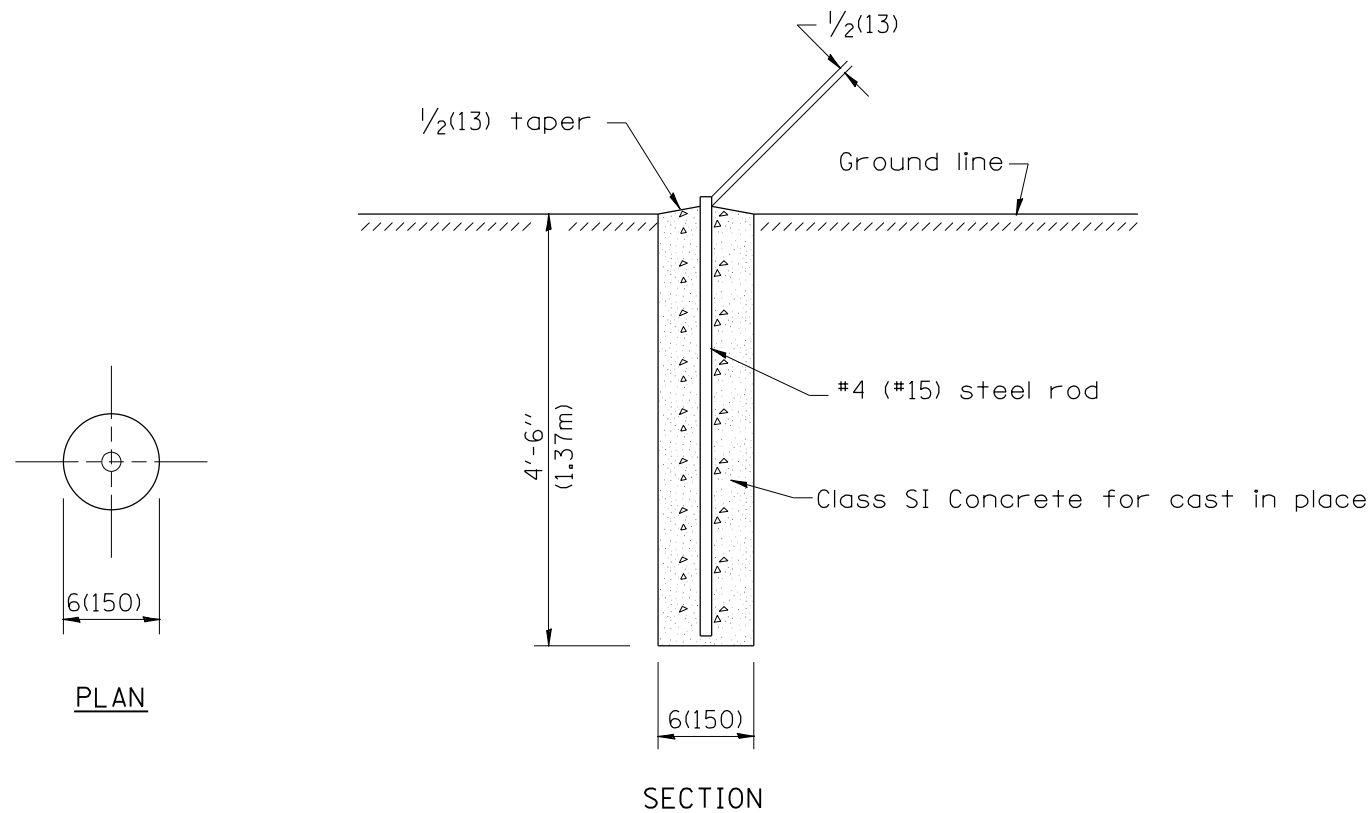
- Permanent Survey Tie
- Section Corner, 1/4 Corner, or other land corner.



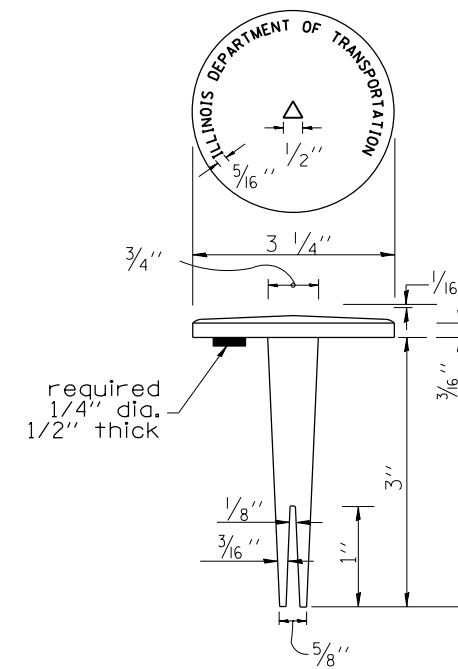
**TYPICAL APPLICATION**

**GENERAL NOTES**

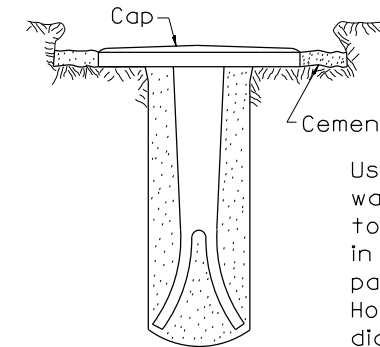
1. The marker shall be cast in place of Class SI Concrete.
2. Tie marker shall be installed after the final seeding has been completed unless otherwise specified by the Engineer.
3. The tie distances to the section corner shall be measured and recorded by the surveyor setting the PSM. All ties shall be turned over to the IDOT Chief of Surveys or Chief of Plats for recordation.
4. All documentation shall be performed by a PLS



**PERMANENT SURVEY MARKERS**



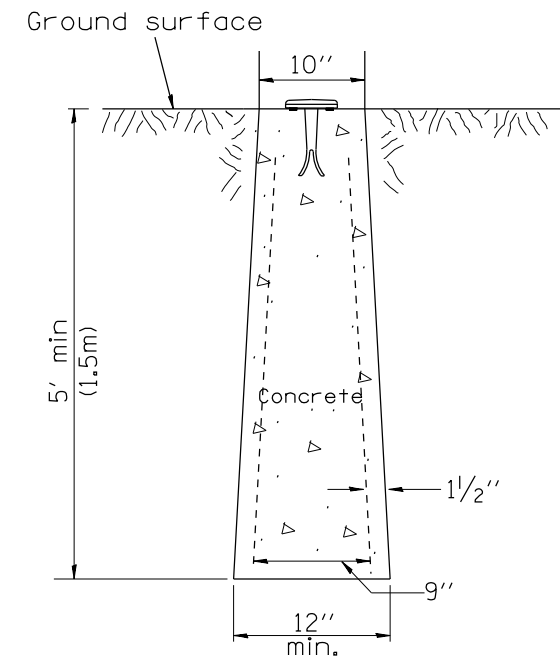
**BRASS TABLET**



Use pure cement and water or approved epoxy to seal marker tablet in rock ledge, concrete pavement or structure. Hole shall be 1 1/2" diameter.

Tablet constructed in rock ledge or concrete.

**TYPE I**



**TYPE II  
CAST-IN-PLACE MARKER**

**GENERAL NOTES**

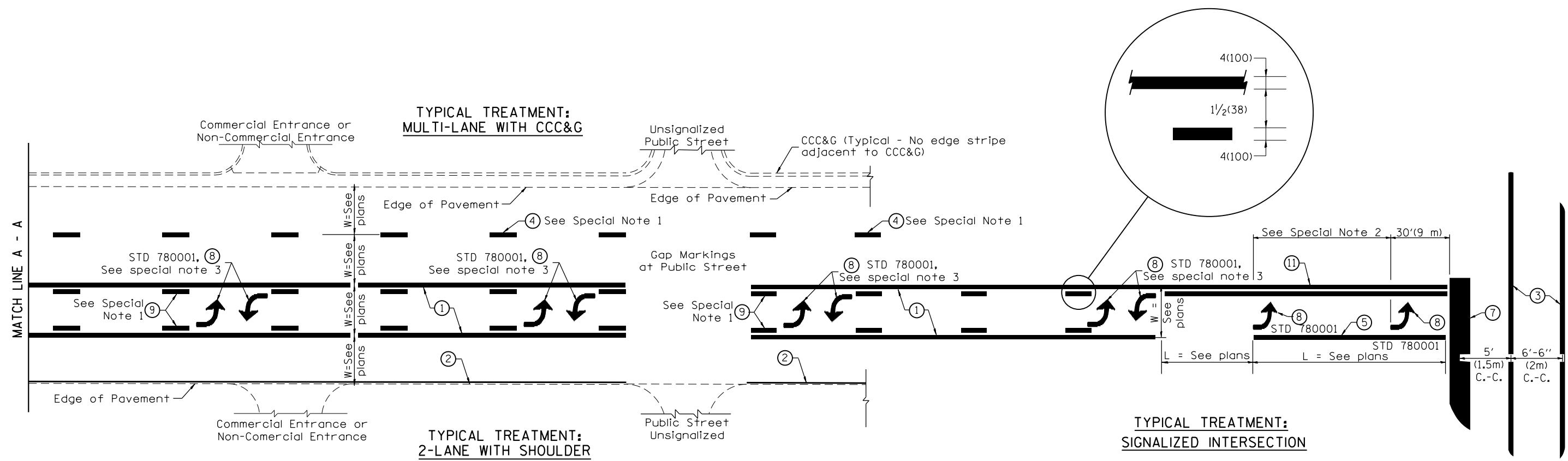
1. All type II markers shall be cast in place, and precast markers will not be allowed.
2. Two permanent magnets, each having a diameter of 3/4 (19) and a thickness of 1/4 (6), or equivalent, shall be attached to the underside of the tablet with an approved epoxy bonding agent.
3. The location of the markers shall be in accordance with the plans in general, the markers will be placed at the P.T.'s, P.C.'s, and P.I.'s located within the R.O.W. of horizontal curves and spaces along the tangents in a way that a minimum of two markers are always inter-visible, and not to exceed 1000' (300m).
4. The markers shall be placed under the direction of the Engineer and shall be installed in a workmanlike manner in order that there will be no further settlement or horizontal shifting. The monuments shall be placed in a way that the survey point will fall within the portion of the plaque provided for that purpose.
5. The project designation, the centerline station, the survey point, and the elevation shall be permanently marked by the use of metal dies after marker has been installed.

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

01-01-97	RENUM. D-3.01, NEW REVISION BOX, REVISED	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT 4 STANDARDS PERMANENT SURVEY TIE &amp; PERMANENT SURVEY MARKERS TY.I- TY.II</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	TITLE BOX, ADD DESIGNER NOTE		01-04-11	REVISED FOR CORRECTIONS	R.D.			661	(8B)BR-1	PEORIA	71	62	
07-07-98	ADD DESIGNER NOTE	J.A.						CONTRACT NO. 68668					
05-24-06	REMOVED GEN. NOTE UNDER TIES	M.A.						CADD STD. 667101-D4					
								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

NOT TO SCALE

CADD STD. 667101-D4



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

**TYPICAL PAVEMENT MARKING LEGEND**

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

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

**SPECIAL NOTES**

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

**GENERAL NOTES**

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

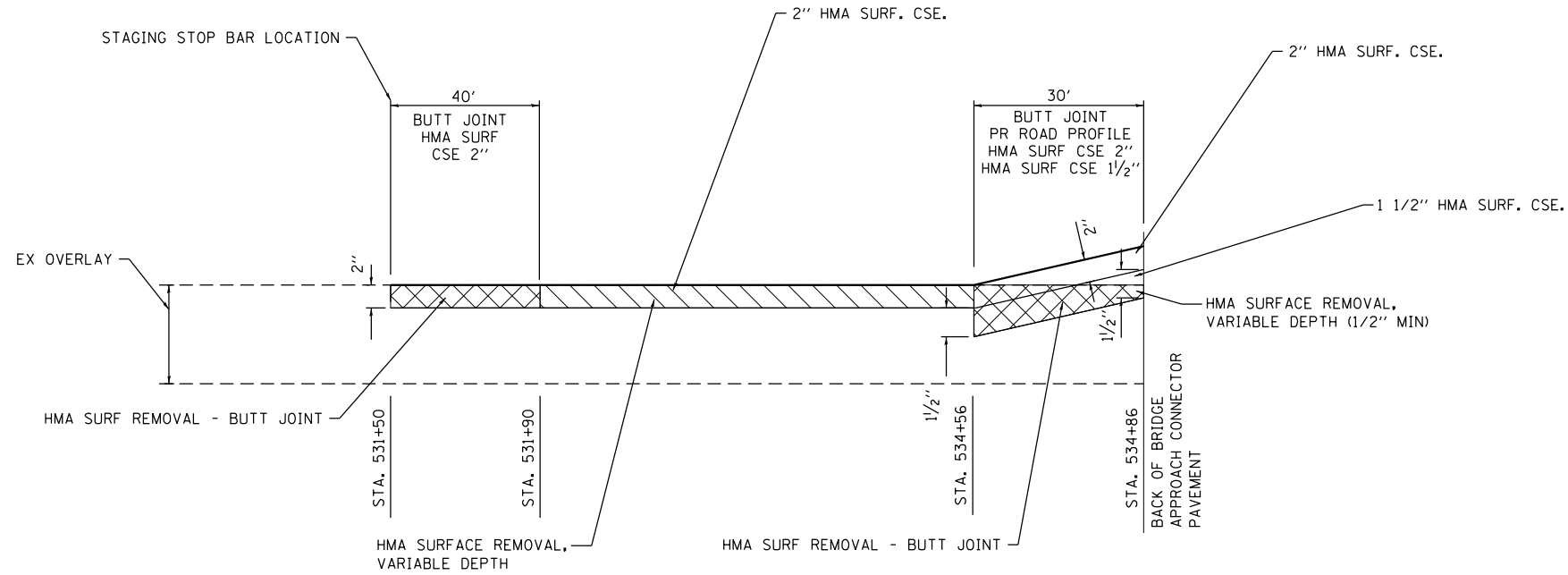
01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT 4 STANDARDS TYPICAL PAVEMENT MARKINGS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.					661	(8)B)R-1	PEORIA	71	63
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.					CONTRACT NO. 68668				
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.					SHT. 1 OF 2 CADD STD. 780001-D4				

NOT TO SCALE

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







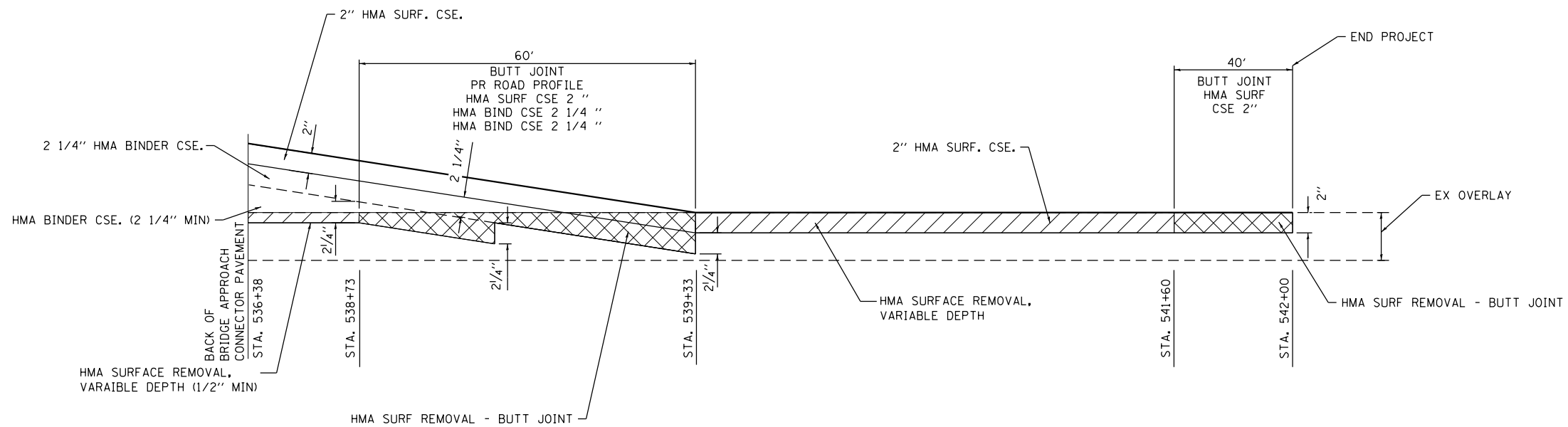


**HMA PAVEMENT THICKNESS TAPER DETAIL – EAST OF BRIDGE**

NOT TO SCALE

**LEGEND**

-  HMA SURFACE REMOVAL BUTT JOINT
-  HMA SURFACE REMOVAL, VARIABLE DEPTH



**HMA PAVEMENT THICKNESS TAPER DETAIL – WEST OF BRIDGE**

NOT TO SCALE

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USER NAME = matt.fields	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / 1\"/>		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT TRANSITION DETAIL  
IL 90 /91 OVER PRINCE CREEK**

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

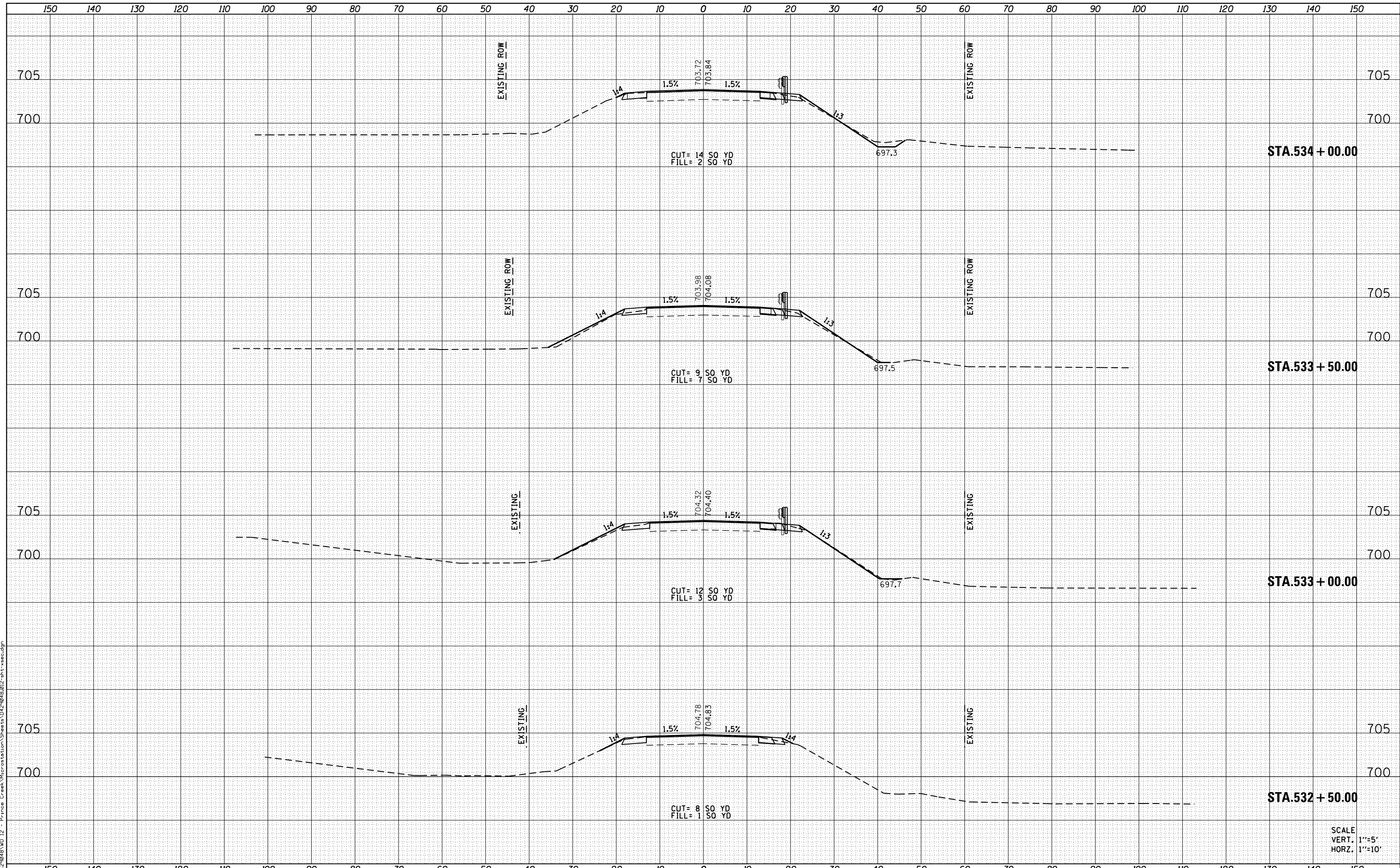
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	65
CONTRACT NO. 68668			ILLINOIS FED. AID PROJECT	



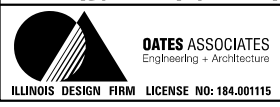
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BY	
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NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

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SCALE  
VERT. 1"=5'  
HORZ. 1"=10'



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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

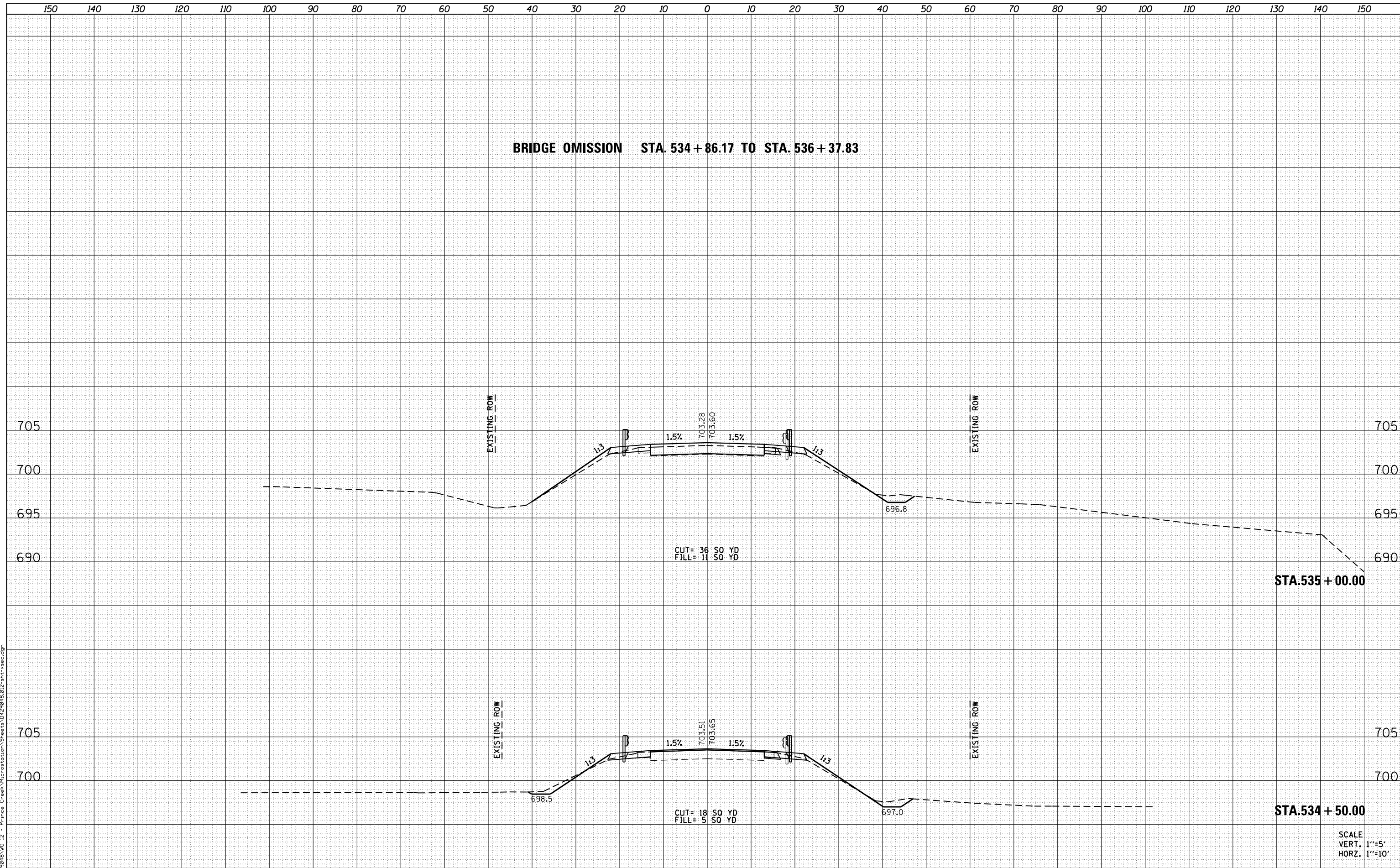
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<b>IL 90 /91 OVER PRINCE CREEK</b>	
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	67
CONTRACT NO. 68668				
ILLINOIS FED. AID PROJECT				

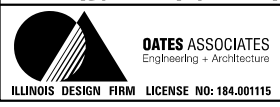
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NOTE BOOK NO.	

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

**BRIDGE OMISSION STA. 534 + 86.17 TO STA. 536 + 37.83**



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	DRAWN -	REVISD -
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PLOT DATE = 11/29/2016	DATE -	REVISD -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
IL 90 /91 OVER PRINCE CREEK**

SCALE: SHEET 3 OF 6 SHEETS STA. 534+50.00 TO STA. 535+50.00

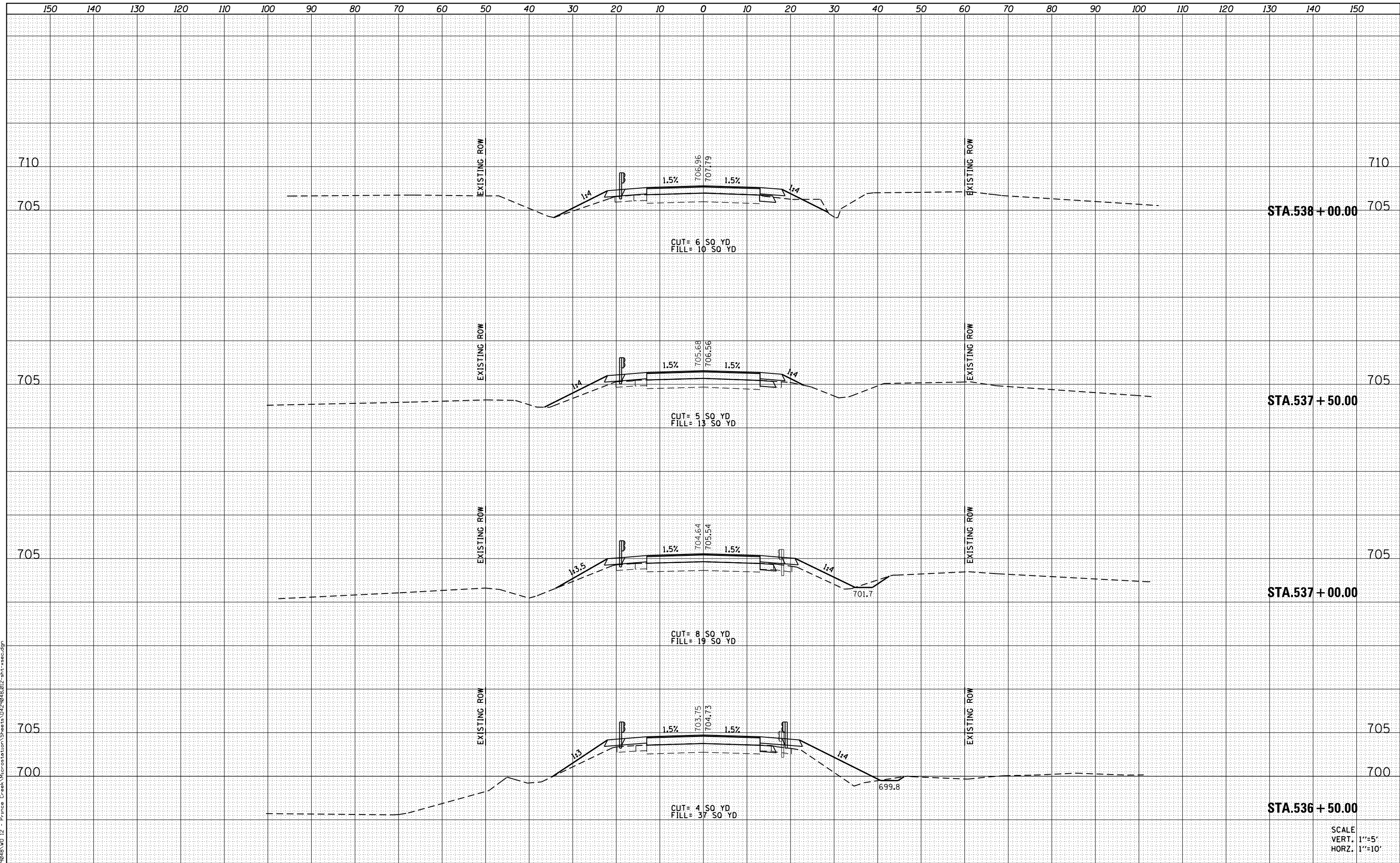
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	68
				CONTRACT NO. 68668
ILLINOIS FED. AID PROJECT				

SCALE  
VERT. 1"=5'  
HORZ. 1"=10'

DATE	
BY	
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SCALE  
VERT. 1"=5'  
HORZ. 1"=10'



USER NAME = matt.fields  
DESIGNED -  
DRAWN -  
CHECKED -  
DATE - 11/29/2016

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
IL 90 /91 PVER PRINCE CREEK

SCALE: SHEET 4 OF 6 SHEETS STA. 536+50.00 TO STA. 538+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
661	(8B)BR-1	PEORIA	71	69
CONTRACT NO. 68668			ILLINOIS FED. AID PROJECT	



