

INDEX OF SHEETS

03-06-2020 LETTING ITEM 053

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FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PROPOSED
HIGHWAY PLANS**
F.A.P. ROUTE 673 (ILL. ROUTE 116)
SECTION (108-BR)BRR
STRUCTURE NO. 102-0042
PROJECT STP-CD30(752)
OVER W. BRANCH OF PANTHER CREEK
SUPERSTRUCTURE REPLACEMENT
WOODFORD COUNTY
C-94-062-08

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	1108-BR)BRR	WOODFORD	* 51	1
		ILLINOIS	CONTRACT NO. 68805	

* 51 + 1 = 52 TOTAL SHEETS

D-94-043-08

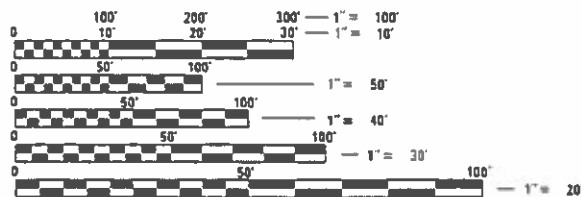
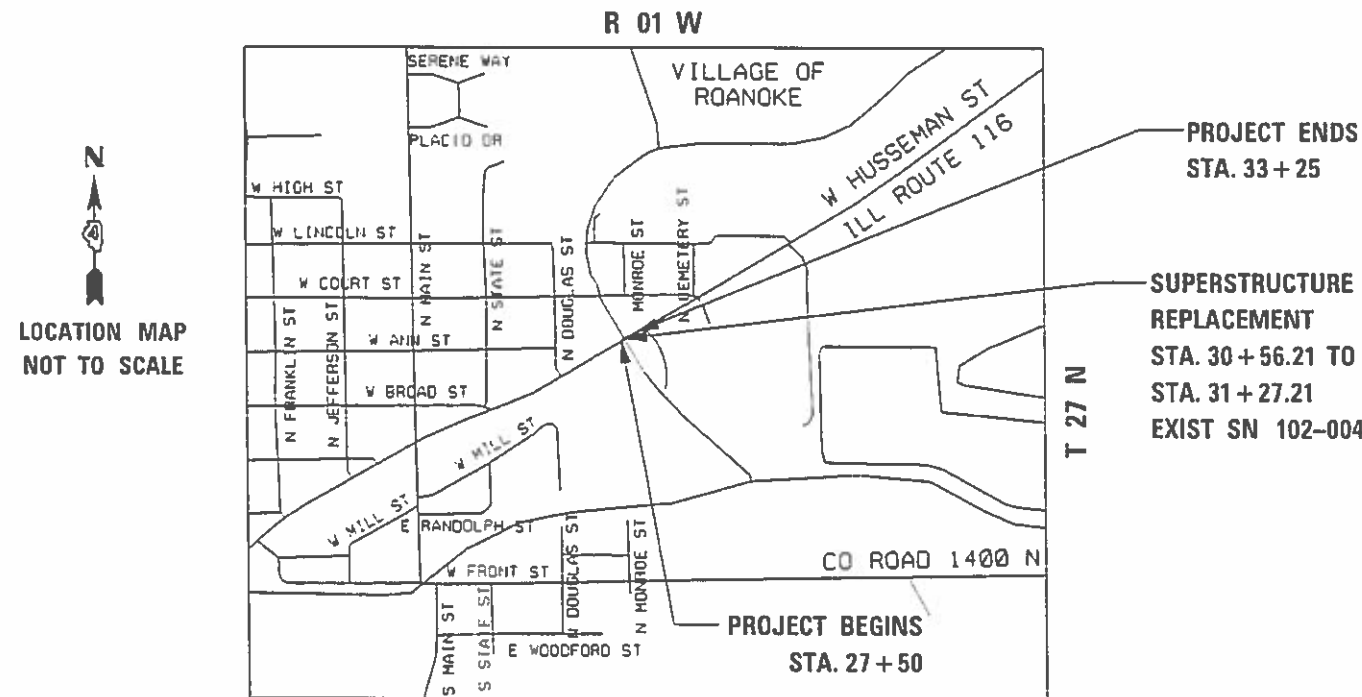


FUNCTIONAL CLASSIFICATION
MINOR ARTERIAL (NON-URBAN)
2017 ADT = 2,700
2017 ADTT = 465
POSTED SPEED: 40 MPH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Dec 10 2019
Renel A Barnett RSO
REGIONAL ENGINEER
Jan 31 2020
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT
Jan 31 2020
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS**



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

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

PROJECT ENGINEER: CHRISTOPHER MAUSHARD, P.E. (309) 671-3453
PROJECT MANAGER: CHRISTOPHER MAUSHARD, P.E. (309) 671-3453

CATALOG NO. 033807-00D
CONTRACT NO. 68805

GROSS LENGTH = 575 FT. = 0.109 MILE
NET LENGTH = 575 FT. = 0.109 MILE



HIGHWAY STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING OR PROJECTS
515001-04	NAME PLATE FOR BRIDGES
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
643001-02	SAND MODULE IMPACT ATTENUATORS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEED > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701901-08	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
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

DISTRICT 4 STANDARDS

406101-D4	BUTT JOINTS
406301-D4	RURAL ENTRANCE FOR "3R" PROJECTS
606201-D4	CONCRETE GUTTER, TYPE B, (SPECIAL) (INLET, OUTLET & ENTRANCE)
630101-D4	GUARDRAIL EROSION CONTROL TREATMENT
667101-D4	PERMANENT SURVEY TIE & PERMANENT SURVEY MARKERS TY. I - TY. II
780001-D4	TYPICAL PAVEMENT MARKINGS

GENERAL NOTES

- AVAILABILITY OF ELECTRONIC FILES**
MICROSTATION AND GEOPAK FILES OF THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR AFTER CONTRACT AWARD. 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 SOLE 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.
- 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.
- PROPERTY OWNER ACCESS REQUIREMENT**
ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.
- ENVIRONMENTAL REVIEWS**
PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:
- BDE FORM 2289 (CULTURAL AND NATURAL RESOURCES REVIEW OF BORROW AREAS)
- BDE FORM 2290 (WASTE/USE AREA REVIEW)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FORM - D4 PI0101

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS SHALL BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SETION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCES AND SIX WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.

GENERAL NOTES (CONT'D)

- AGGREGATE FOR DRIVEWAY REPLACEMENT**
THE MATERIAL USED FOR CONSTRUCTION OF PERMANENT AGGREGATE DRIVEWAYS SHALL BE GRAVEL OR CRUSHED STONE, AS DIRECTED BY THE ENGINEER, TO REPLACE IN KIND THE EXISTING AGGREGATE DRIVEWAYS. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR THIS REQUIREMENT BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE PAY ITEM FOR THE AGGREGATE AS SPECIFIED ON THE PLANS.
- BUTT JOINT CUTTING TIME RESTRICTION**
BUTT JOINTS SHALL NOT BE MILLED MORE THAN THREE (3) DAYS PRIOR TO PLACEMENT OF THE HMA SURFACE COURSE.
- 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.
- 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 FORESLOPE, 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 JOBSITE. 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.
- CROSSING EXISTING STRUCTURES WITH EQUIPMENT**
NO STRUCTURES HAVE BEEN PRE-APPROVED TO BE CROSSED WITH THE EMPTY MTD.

ANY STRUCTURES SHALL BE VERIFIED BY THE RESIDENT PRIOR TO BEGINNING WORK.
- ADDITIONAL SUPPLEMENTAL TRAFFIC CONTROL**
THE DEPARTMENT RESERVES THE RIGHT AT ANY TIME TO ADD ADDITIONAL TRAFFIC CONTROL SYSTEMS OR DEVICES WITHIN THE ACTIVE CONTRACT LIMITS, BY MEANS OF AN ADDITIONAL CONTRACT. ALL TERMS OF ARTICLE 105.08 OF THE STANDARD SPECIFICATIONS SHALL BE FOLLOWED BY EACH CONTRACTOR.

POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) RATES

SURFACE TYPE	RESIDUAL RATE
MILLED (HMA OR PCC)	0.08 LB/SF
EXISTING PAVEMENT	0.04 LB/SF
FOG COAT (BETWEEN LIFTS)	0.04 LB/SF

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE(S):	POLY. HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX D, N50 AND HOT-MIX ASPHALT SHOULDER
AC/PG:	SBS76-28
DESIGN AIR VOIDS:	4.0% @ 50GYR
MIXTURE COMPOSITION: (GRADATION MIXTURE):	IL 9.5mm
FRICTION AGGREGATE:	D SURFACE
QUALITY MANAGEMENT:	QC/QA

MIXTURE USE(S):	POLY. HOT-MIX ASPHALT BINDER CSE., IL-4.75, N50
AC/PG:	SBS76-22
DESIGN AIR VOIDS:	4.0% @ 50GYR
MIXTURE COMPOSITION: (GRADATION MIXTURE):	IL 4.75mm
FRICTION AGGREGATE:	NA
QUALITY MANAGEMENT:	QC/QA

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

NOTE:

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LB/SQ YD/IN.

COMMITMENTS:

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

CONTACT MR. MARK AESCHLEMAN, ROANOKE DIRECTOR OF PUBLIC WORKS, 14 DAYS BEFORE SETTING UP TRAFFIC CONTROL ON IL ROUTE 116 AND CLOSURE OF N. DOUGLAS STREET. HIS CONTACT INFORMATION IS 309-303-8001 PHONE AND MAROANOKE@MCHSI.COM E-MAIL ADDRESS.

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PLOT DATE = 12/10/2019	DATE - 4-11-2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 116 OVER WEST BRANCH OF PANTHER CREEK

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	2
				CONTRACT NO. 68805
ILLINOIS FED. AID PROJECT				



Status of Utilities

Name of Utility Company
Ameren Illinois (Electric)

Route FAP 673 (IL 116)
 Section (108-BR)BRR
 County Woodford
 Contract No. 68805
 Catalog No. 033807-00D

Route	Offset	Location	Type of Utility	Type of Conflict	Disposition
IL116	41' LT.	Sta. 27+48	Pole w/aerial	Project Limit	Caution
IL116	18' LT.	Sta. 28+75	Pole w/aerial & light	Guardrail/erosion control	Relocate
IL116	18' LT.	Sta. 30+30	Pole w/aerial & light	Guardrail/erosion control	Relocate
IL116	19' LT.	Sta. 31+77	Pole w/aerial & light	Guardrail/erosion control	Relocate

NOTE: Please check all your facilities within the construction limits of this project.

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Printed 5/16/2019

D4 PD0100 (Rev. 02/24/10)



Status of Utilities

Name of Utility Company
Ameren Illinois (Gas)

Route FAP 673 (IL 116)
 Section (108-BR)BRR
 County Woodford
 Contract No. 68805
 Catalog No. 033807-00D

Route	Offset	Location	Type of Utility	Type of Conflict	Disposition
IL116	33' RT.	Sta. 27+95	4" Gas Main	Concrete Outlet	Caution
IL116	36' RT.	Sta. 32+60 to Sta. 32+85	4" Gas Main	Driveway entrance	Caution

NOTE: Please check all your facilities within the construction limits of this project.

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Printed 5/16/2019

D4 PD0100 (Rev. 02/24/10)

CONTACTS:

AMEREN ELECTRIC
 Mr. Cody Davis
 Ameren Illinois
 8420 N. University
 Peoria, Illinois 61615

AMEREN GAS
 Mr. Kent Kowalske
 Ameren Illinois
 8420 N. University
 Peoria, Illinois 61615

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PLOT DATE = 12/10/2019	DATE - 4-11-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 116 OVER WEST BRANCH OF PANTHER CREEK
STATUS OF UTILITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	2A
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES		
				80/20 FUNDS	80/20 FUNDS	100% STATE
				ROADWAY	BRIDGE	
				0013	0013	0013
				RURAL	SN 102-0042	
20101700	SUPPLEMENTAL WATERING	UNIT	5	5		
20200100	EARTH EXCAVATION	CU YD	115	115		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	40	40		
20300100	CHANNEL EXCAVATION	CU YD	700	700		
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	5	5		
21101600	TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH	SQ YD	528	528		
21400100	GRADING AND SHAPING DITCHES	FOOT	40	40		
25000210	SEEDING, CLASS 2A	ACRE	0.25	0.25		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	10	10		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	10	10		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	10	10		
25000750	MOWING	ACRE	0.50			0.50
25100630	EROSION CONTROL BLANKET	SQ YD	528	528		
25200110	SODDING, SALT TOLERANT	SQ YD	23	23		

* SPECIALTY ITEM



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
 IL 116 OVER WEST BRANCH OF PANTHER CREEK**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	3
			CONTRACT NO. 68805	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES		
				80/20 FUNDS	80/20 FUNDS	100% STATE
				ROADWAY	BRIDGE	
				0013 RURAL	0013 SN 102-0042	0013
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	20	20		
28000305	TEMPORARY DITCH CHECKS	FOOT	8	8		
28000400	PERIMETER EROSION BARRIER	FOOT	960	960		
28000510	INLET FILTERS	EACH	1	1		
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	528	528		
28100107	STONE RIPRAP, CLASS A4	SQ YD	553		553	
28200200	FILTER FABRIC	SQ YD	553		553	
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	526	526		
35400400	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 9"	SQ YD	227	227		
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	1410	1410		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	76	76		
40600990	TEMPORARY RAMP	SQ YD	38	38		
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	139	139		
40604110	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX D, N50	TON	74	74		

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PLOT DATE = 12/10/2019		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL 116 OVER WEST BRANCH OF PANTHER CREEK**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	4
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES		
				80/20 FUNDS	80/20 FUNDS	100% STATE
				ROADWAY	BRIDGE	
				0013	0013	0013
	RURAL	SN 102-0042				
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	113	113		
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	114	114		
44000100	PAVEMENT REMOVAL	SQ YD	89	89		
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	939	939		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	604	604		
44004250	PAVED SHOULDER REMOVAL	SQ YD	98	98		
48101200	AGGREGATE SHOULDERS, TYPE B	TON	13	13		
48203100	HOT-MIX ASPHALT SHOULDERS	TON	24	24		
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1		1	
50200100	STRUCTURE EXCAVATION	CU YD	9		9	
50300225	CONCRETE STRUCTURES	CU YD	28.5		28.5	
50300260	BRIDGE DECK GROOVING	SQ YD	429		429	
50300300	PROTECTIVE COAT	SQ YD	458		458	
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	88.9		88.9	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
IL 116 OVER WEST BRANCH OF PANTHER CREEK			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	5
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				

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CONSTRUCTION CODES		
80/20 FUNDS	80/20 FUNDS	100% STATE
ROADWAY	BRIDGE	
0013	0013	0013
RURAL	SN 102-0042	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY			
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	2194			2194
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	43130			43130
50800515	BAR SPLICERS	EACH	369			369
50901050	STEEL RAILING, TYPE SM	FOOT	138			138
51500100	NAME PLATES	EACH	1			1
55100500	STORM SEWER REMOVAL 12"	FOOT	127	127		
59000200	EPOXY CRACK INJECTION	FOOT	6			6
60500060	REMOVING INLETS	EACH	7	7		
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	10.4	10.4		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	187.5	187.5		
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	100	100		
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4		
63200310	GUARDRAIL REMOVAL	FOOT	498	498		

* = SPECIALTY ITEM



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL 116 OVER WEST BRANCH OF PANTHER CREEK**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	6
			CONTRACT NO. 68805	
ILLINOIS			FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES		
				80/20 FUNDS	80/20 FUNDS	100% STATE
				ROADWAY	BRIDGE	
				0013	0013	0013
				RURAL	SN 102-0042	
* 66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1	1		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6		
67100100	MOBILIZATION	L SUM	1	1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	200	200		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	67	67		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1188	1188		
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	36	36		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	400	400		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	338	338		
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2		
70600322	IMPACT ATTENUATORS, RELOCATE (FULLY- REDIRECTIVE,NARROW), TEST LEVEL 2	EACH	2	2		
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		

*= SPECIALTY ITEM

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	DATE - 4-11-2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL 116 OVER WEST BRANCH OF PANTHER CREEK**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	7
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES		
				80/20 FUNDS	80/20 FUNDS	100% STATE
				ROADWAY	BRIDGE	
				0013 RURAL	0013 SN 102-0042	0013
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	200	200		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	4	4		
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	6	6		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	4	4		
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	37	37		
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	244		244	
X7010202	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	1	1		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	210	210		
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	469	469		
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	26	26		
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	39	39		
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	18		18	
Z0004552	APPROACH SLAB REMOVAL	SQ YD	184	184		
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	7		7	

*= SPECIALTY ITEM



USER NAME = \$USERS	DESIGNED - BCB	REVISED -
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PLOT DATE = 12/10/2019	DATE - 4-11-2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL 116 OVER WEST BRANCH OF PANTHER CREEK**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	8
			CONTRACT NO. 68805	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES		
				80/20 FUNDS	80/20 FUNDS	100% STATE
				ROADWAY	BRIDGE	
				0013	0013	0013
				RURAL	SN 102-0042	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
Z0034105	MATERIAL TRANSFER DEVICE	TON	213	213		
∅ Z0076600	TRAINEES	HOUR	1000	1000		
∅ Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	1000	1000		

∅ 0042

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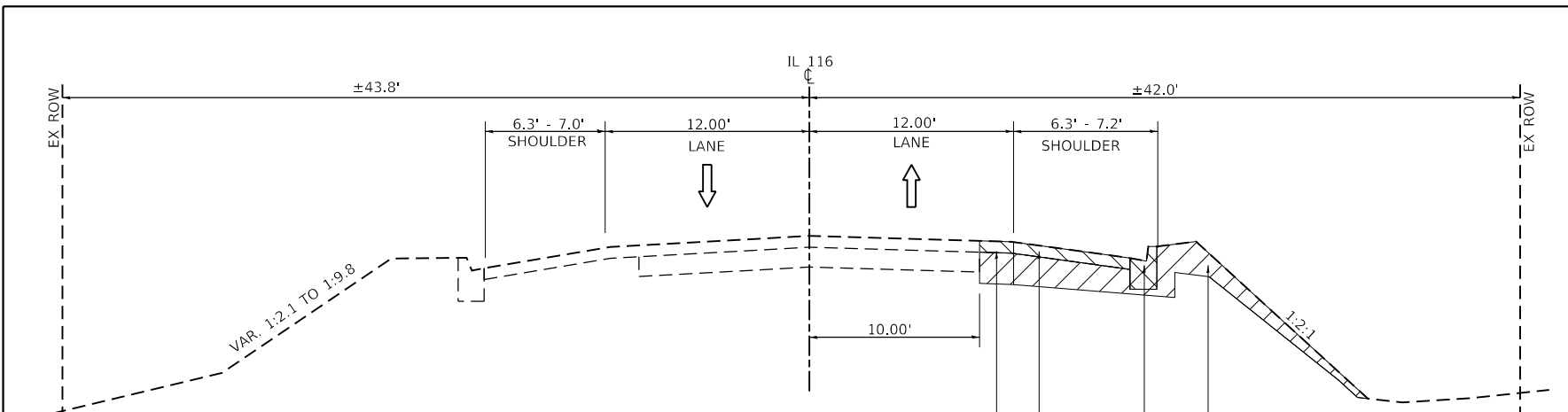


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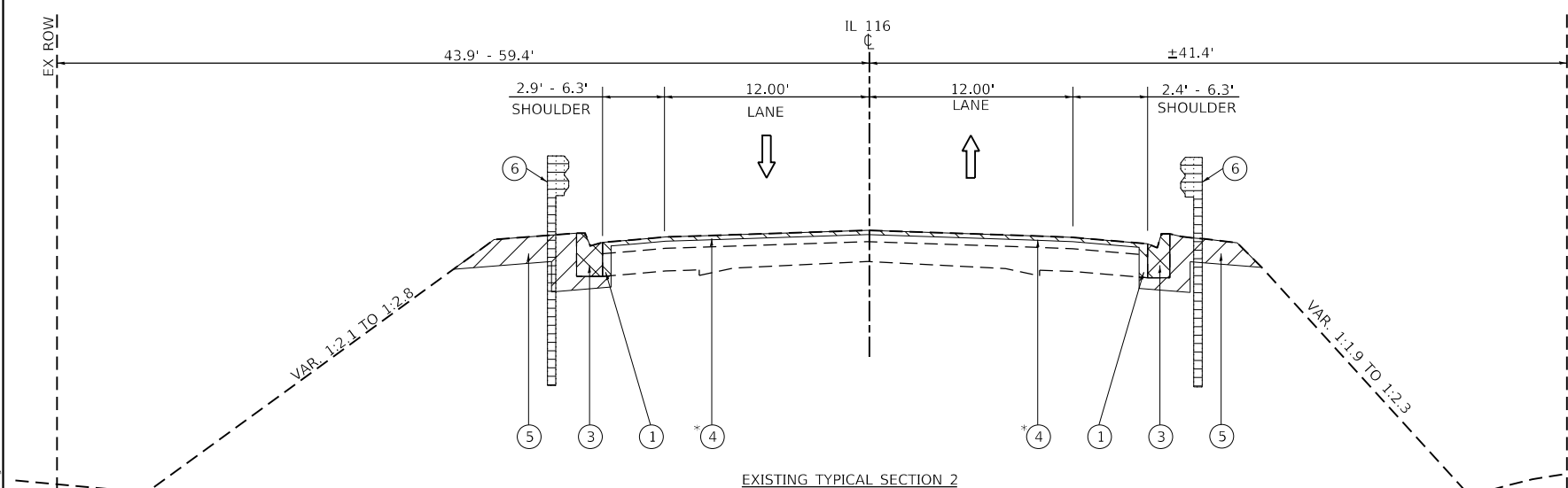
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
IL 116 OVER WEST BRANCH OF PANTHER CREEK			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

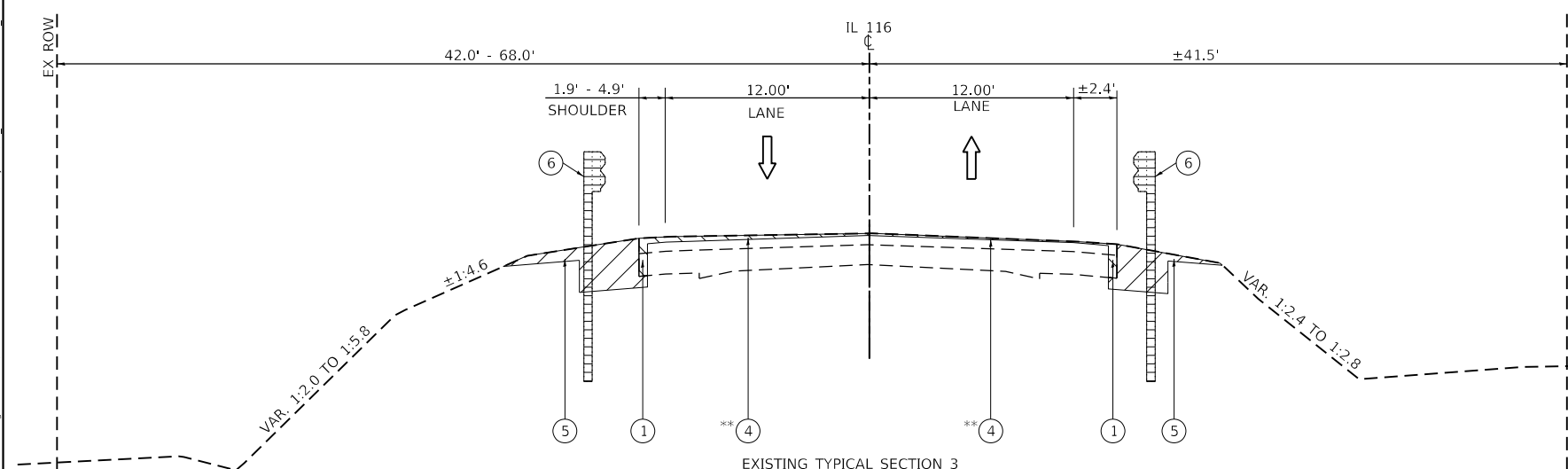
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673	(108-BR)BRR	WOODFORD	51	9
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION 1
STA 27+50.00 TO STA 28+30.00



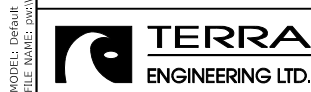
EXISTING TYPICAL SECTION 2
STA 28+30.00 TO STA 30+06.22
* OMIT (4) HOT-MIX ASPHALT SURFACE REMOVAL, 2"
FROM STA 28+30.00 TO STA 29+00.00



EXISTING TYPICAL SECTION 3
STA 31+77.14 TO STA 33+25.00
**VAR. DEPTH 0.25" TO 2"

LEGEND

- ① PAVED SHOULDER REMOVAL
- ② PAVEMENT REMOVAL
- ③ COMBINATION CURB AND GUTTER REMOVAL
- ④ HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- ⑤ EXCAVATION
- ⑥ GUARDRAIL REMOVAL
- ⑦ POLY HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX "D", N50, 1 ½"
- ⑧ POLY HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, VAR. DEPTH
- ⑨ PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 9"
- ⑩ GUARDRAIL AGGREGATE EROSION CONTROL
- ⑪ STEEL PLATE BEAM GUARDRAIL, TYPE A
- ⑫ TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH
- ⑬ CONCRETE WEARING SURFACE, 5"
- ⑭ BRIDGE RAILING
- ⑮ LONG JOINT SEALANT
- ⑯ SUBBASE GRANULAR MATERIAL, TYPE B 4"
- ⑰ AGGREGATE SHOULDERS, TYPE B 6"
- ⑱ PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB



USER NAME = susers	DESIGNED - BCB	REVISED -
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	DATE - 4-11-2019	REVISED -

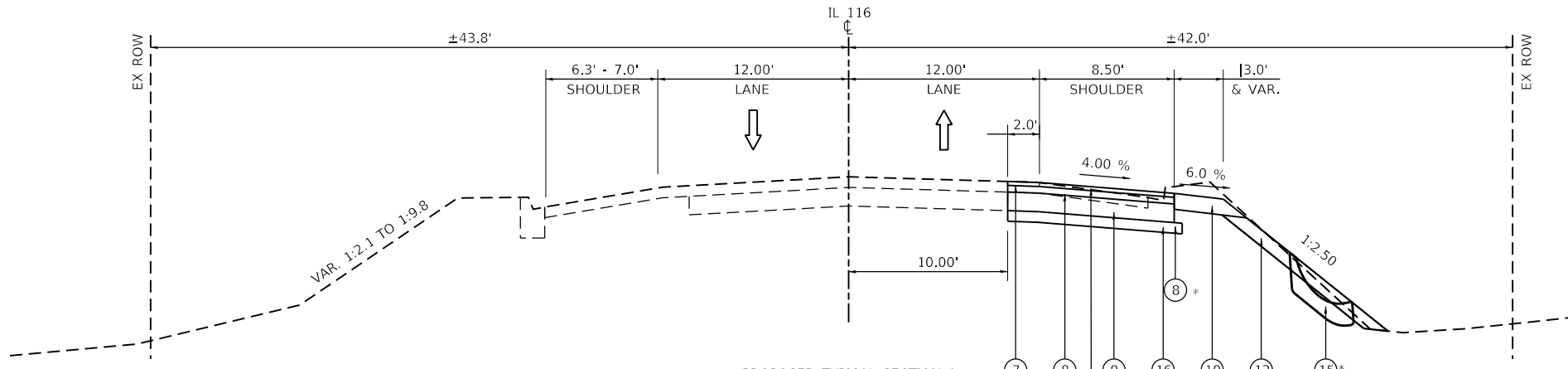
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTIONS
IL 116 OVER WEST BRANCH OF PANTHER CREEK

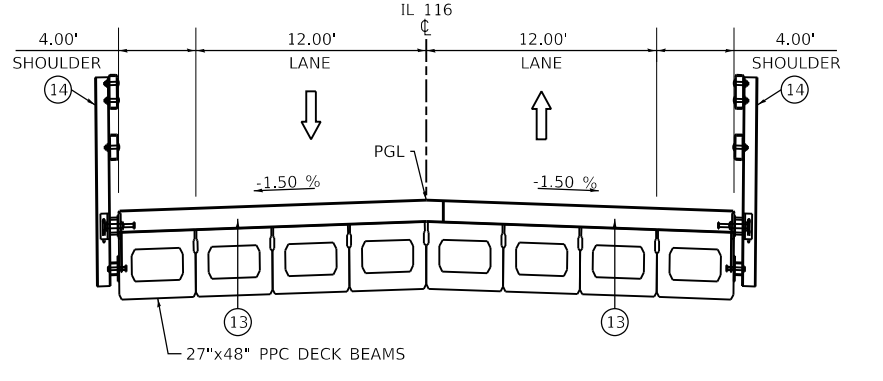
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 68805	

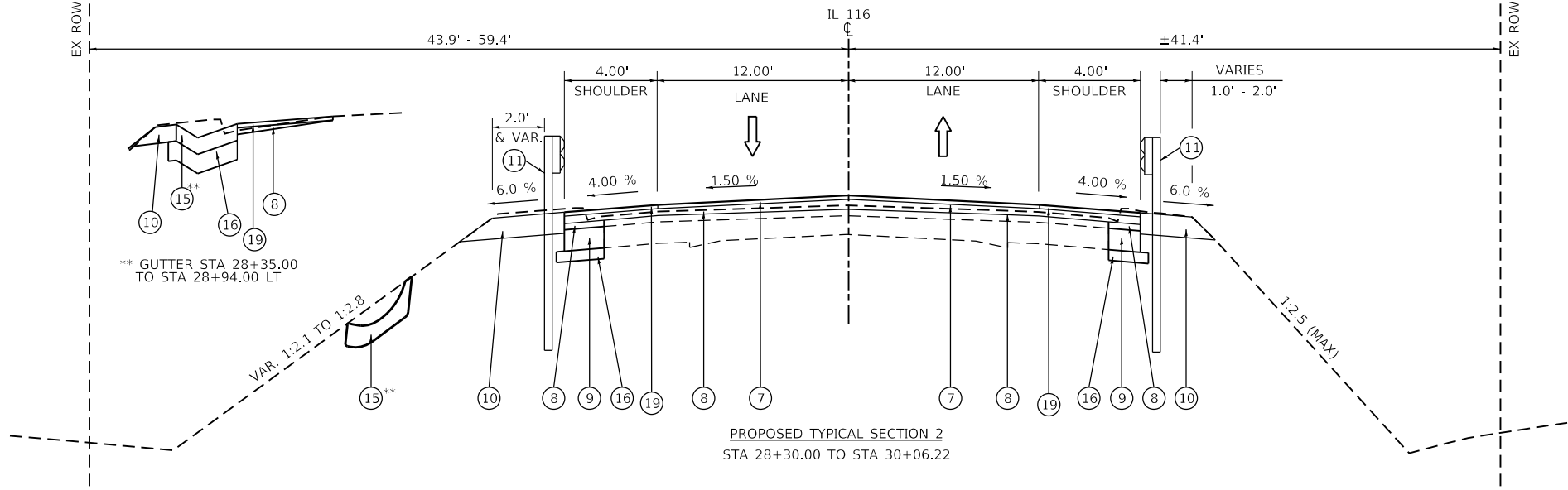
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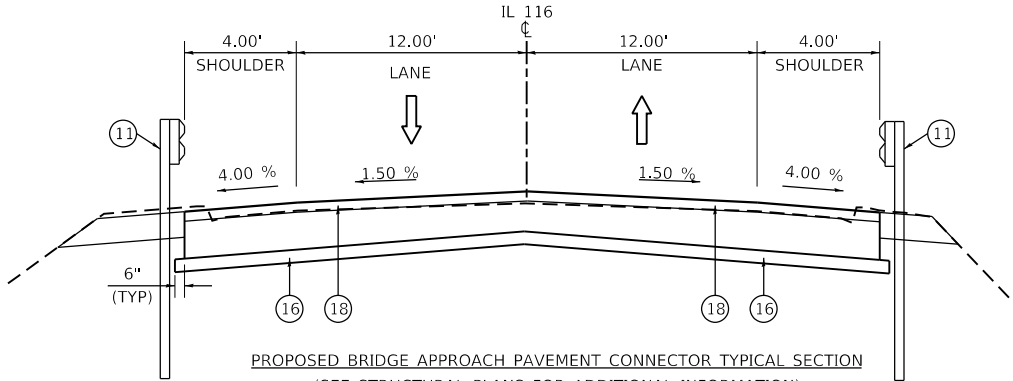
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 STA 27+50.00 TO STA 28+30.00
 * GUTTER STA 27+55.00 TO STA 27+95.00 RT



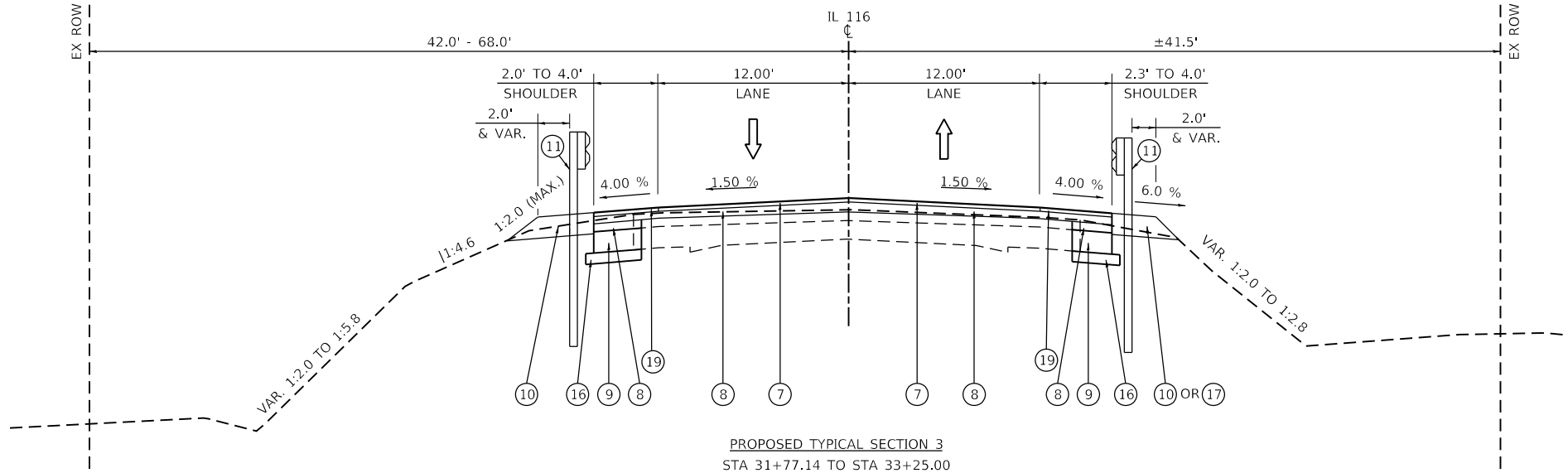
PROPOSED BRIDGE TYPICAL SECTION
 (SEE STRUCTURAL PLANS FOR ADDITIONAL INFORMATION)
 STA 30+57.43 TO STA 31+25.99



PROPOSED TYPICAL SECTION 2
 STA 28+30.00 TO STA 30+06.22



PROPOSED BRIDGE APPROACH PAVEMENT CONNECTOR TYPICAL SECTION
 (SEE STRUCTURAL PLANS FOR ADDITIONAL INFORMATION)
 STA 30+06.22 TO STA 30+27.43 & STA 31+55.99 TO STA 31+77.14
 APPROACH SLAB FROM STA. 30+27.43 TO STA. 30+57.43 & STA. 31+25.94 TO STA. 31+55.94



PROPOSED TYPICAL SECTION 3
 STA 31+77.14 TO STA 33+25.00

- LEGEND**
- ① PAVED SHOULDER REMOVAL
 - ② PAVEMENT REMOVAL
 - ③ COMBINATION CURB AND GUTTER REMOVAL
 - ④ HOT-MIX ASPHALT SURFACE REMOVAL, 2"
 - ⑤ EARTH EXCAVATION
 - ⑥ GUARDRAIL REMOVAL
 - ⑦ POLY HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX D, N50, 1 1/2"
 - ⑧ POLY HOT-MIX ASPHALT BINDER COURSE, IL 4.75, N50, VAR. 0.75" to 4.1"
 - ⑨ PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 9"
 - ⑩ GUARDRAIL AGGREGATE EROSION CONTROL
 - ⑪ STEEL PLATE BEAM GUARDRAIL, TYPE A (WITH 6' AND/OR 9' POSTS - SEE SCHEDULE FOR STATION RANGE)
 - ⑫ TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH
 - ⑬ CONCRETE WEARING SURFACE, 5"
 - ⑭ STEEL RAILING, TYPE SM
 - ⑮ CLASS SI CONCRETE (OUTLET)
 - ⑯ SUBBASE GRANULAR MATERIAL, TYPE B 4"
 - ⑰ AGGREGATE SHOULDERS, TYPE B 6"
 - ⑱ PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
 - ⑲ HOT-MIX ASPHALT SHOULDER

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 DATE: 12/10/2019



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DRAWN - BCB	CHECKED - BKR	REVISED -
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PLOT DATE = 12/10/2019		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS	
IL 116 OVER WEST BRANCH OF PANTHER CREEK	
SCALE: 1" = 40'	SHEET 2 OF 2 SHEETS

F.A.P. RTE. 673	SECTION (108-BR)BRR	COUNTY WOODFORD	TOTAL SHEETS 51	SHEET NO. 11
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				

PAVEMENT SCHEDULE

LOCATION STATION			SUBBASE GRANULAR MATERIAL TY. B, 4"	PCC BASE COURSE WIDENING 9"	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POLY. HMA BINDER CSE. IL 4.75, N50	HMA SURF. REMOVAL - BUTT JOINT	TEMPORARY RAMP	POLY. HMA SURFACE CSE, IL-9.5FG, MIX "D", N50	PVMT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	PCC DRIVEWAY PAVEMENT 8"	AGGREGATE SHOULDERS TYPE B	HMA SHOULDERS	MATERIAL TRANSFER DEVICE	
ALIGNMENT: IL RTE 116			SQ YD	SQ YD	POUND	TON	SQ YD	SQ YD	TON	SQ YD	SQ YD	TON	TON	TON	
STA		STA	OFFSET												
27+50.00	TO	28+30.00		93.3	93.3	101	3.2		1.5				6.3	4.7	
28+30.00	TO	30+27.43		167.4	91.4	712	87.1	35.6	17.8	39.5	56.6		13.2	126.6	
31+55.99	TO	33+25.00		265.6	41.8	597	48.4	40.0	20.0	33.1	56.4	114	13	4.1	
27+50.00	TO	28+30.00	RT.												
28+30.00	TO	31+16.40	RT.												
28+56.00	TO	30+36.02	LT.												
31+47.50	TO	32+42.68	RT.												
33+03.92	TO	33.25.00	RT.												
31+66.32	TO	33+25.00	LT.												
TOTAL				526	227	1410	139	76	38	74	113	114	13	24	213

SURVEY SCHEDULE

LOCATION STATION	PERMANENT SURVEY MARKERS, TYPE 1
ALIGNMENT: IL RTE 116	EACH
TBD BY RESIDENT ENGINEER	1
TOTAL	1

DRAINAGE SCHEDULE

LOCATION STATION				CLASS SI CONCRETE (OUTLET)	REMOVING INLETS
ALIGNMENT: IL RTE 116				CU YD	EACH
STA		STA	OFFSET		
27+55.00	TO	27+95.00	RT	4.3	
28+35.00	TO	28+94.00	LT	6.1	
STATION		OFFSET			
28+25.00		RT. 18.2'			1
28+25.00		LT. 18.4'			1
29+17.30		RT. 16.3'			1
29+17.30		LT. 16.9'			1
30+10.00		RT. 14.6'			1
30+10.00		LT. 14.8'			1
31+32.10		RT. 15.0'			1
31+49.50		LT. 14.0'			1
TOTAL				10.4	7

CONSTRUCTION SCHEDULE

LOCATION STATION	ENGINEER'S FIELD OFFICE, TYPE A	MOBILIZATION	TRAFFIC CONTROL PROTECTION, STANDARD 701201	TRAFFIC CONTROL PROTECTION, STANDARD 701321 (SPECIAL)	CHANGEABLE MESSAGE SIGN	CONSTRUCTION LAYOUT
ALIGNMENT: IL RTE 116	CAL MO	L SUM	L SUM	EACH	CAL DA	L SUM
STA 27+50.00 TO STA 33+25.00	6	1	1	1	210	1
TOTAL	6	1	1	1	210	1

LANDSCAPE SCHEDULE

LOCATION STATION	TOPSOIL EXCAVATION & PLACEMENT	TOPSOIL FURN. AND PLACE, VAR. DEPTH	GRADING & SHAPING DITCHES	SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MOWING	EROSION CONTROL BLANKET	SODDING, SALT TOLERANT	TEMP. EROSION CONTROL SEEDING	TEMP. DITCH CHECKS	PERIMETER EROSION BARRIER	INLET FILTERS	TEMP. EROSION CONTROL BLANKET	SUPPLEMENTAL WATERING			
ALIGNMENT: IL RTE 116	CU YD	SQ YD	FOOT	ACRE	POUND	POUND	POUND	ACRE	SQ YD	SQ YD	POUND	FOOT	FOOT	EACH	SQ YD	UNIT			
N.W. QUAD																			
STA		STA																	
31+40.64	TO	33+26.03		62.1	0.01	1	1	0.08	62.1		1		212		62.1				
S.W. QUAD																			
STA		STA																	
28+28.90	TO	30+68.18		5	248.6	40	0.05	5	5	5	0.22	248.6	23	5	4	258	1	248.6	
S.E. QUAD																			
STA		STA																	
27+49.00	TO	30+43.24		195.2	0.04	4	4	0.18	195.2		4	4	252		195.2				
N.E. QUAD																			
STA		STA																	
31+14.97	TO	33+26.04		22.3	0.01	1	1	0.02	22.3		1		238		22.3				
BRIDGE																			
STA		STA																	
30+35.18	TO	31+53.44																	
TOTAL				5	528	40	0.25	10	10	10	0.5	528	23	20	8	960	1	528	5

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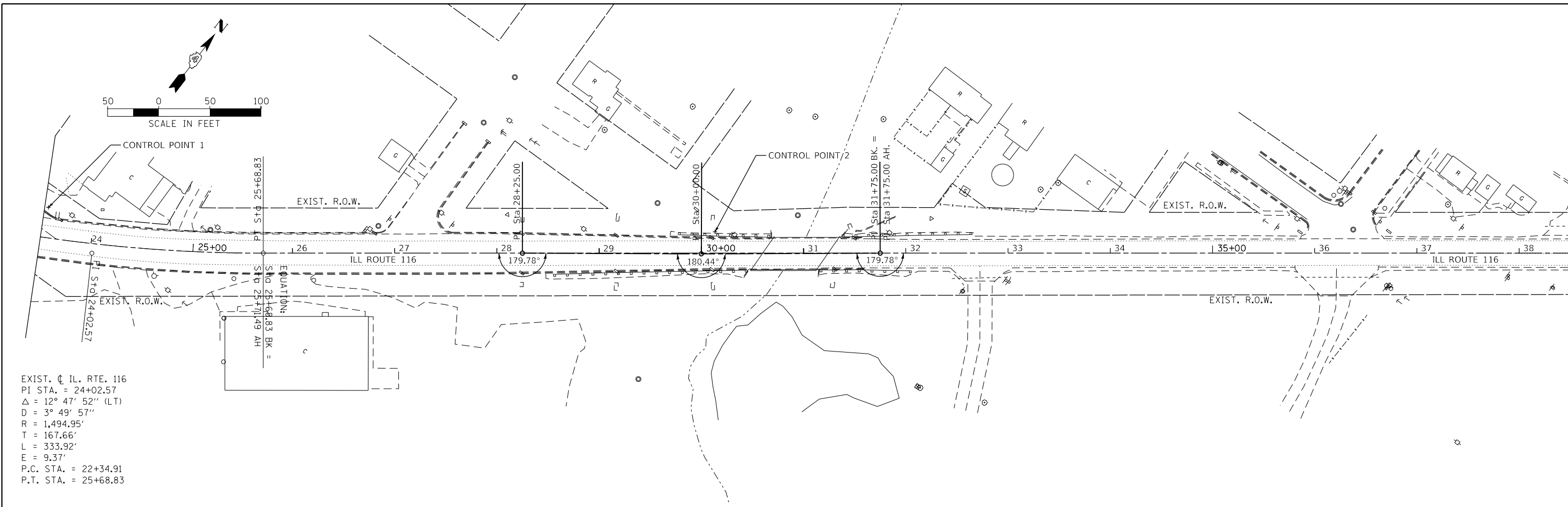
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

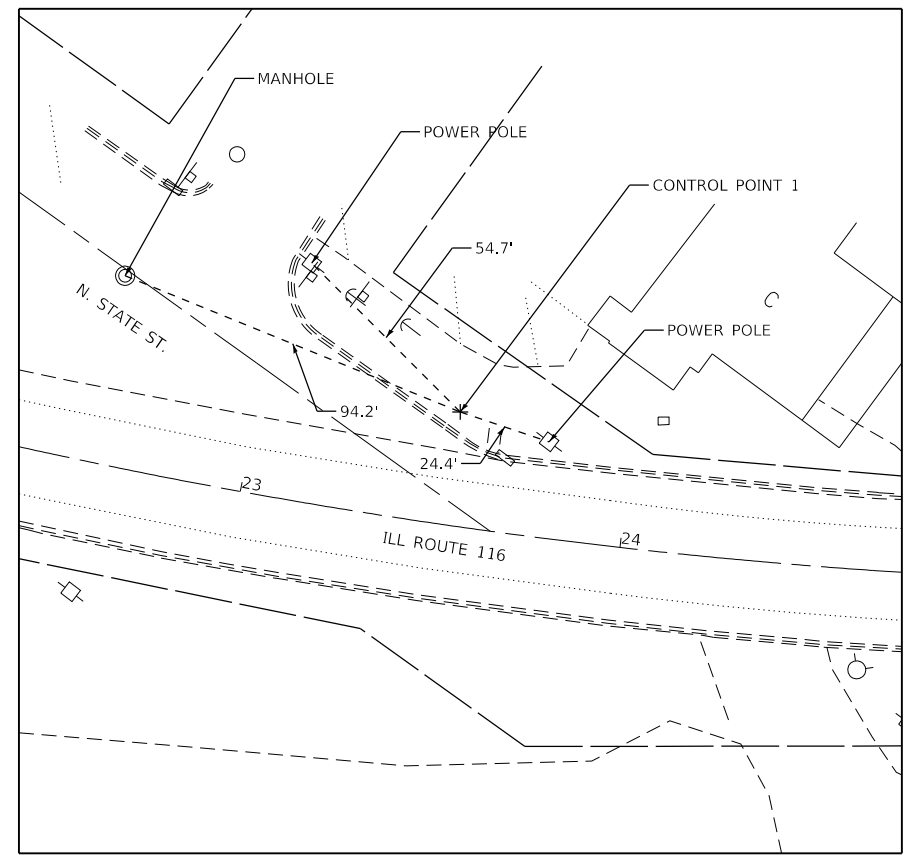
**SCHEDULES OF QUANTITIES
 IL 116 OVER WEST BRANCH OF PANTHER CREEK**

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

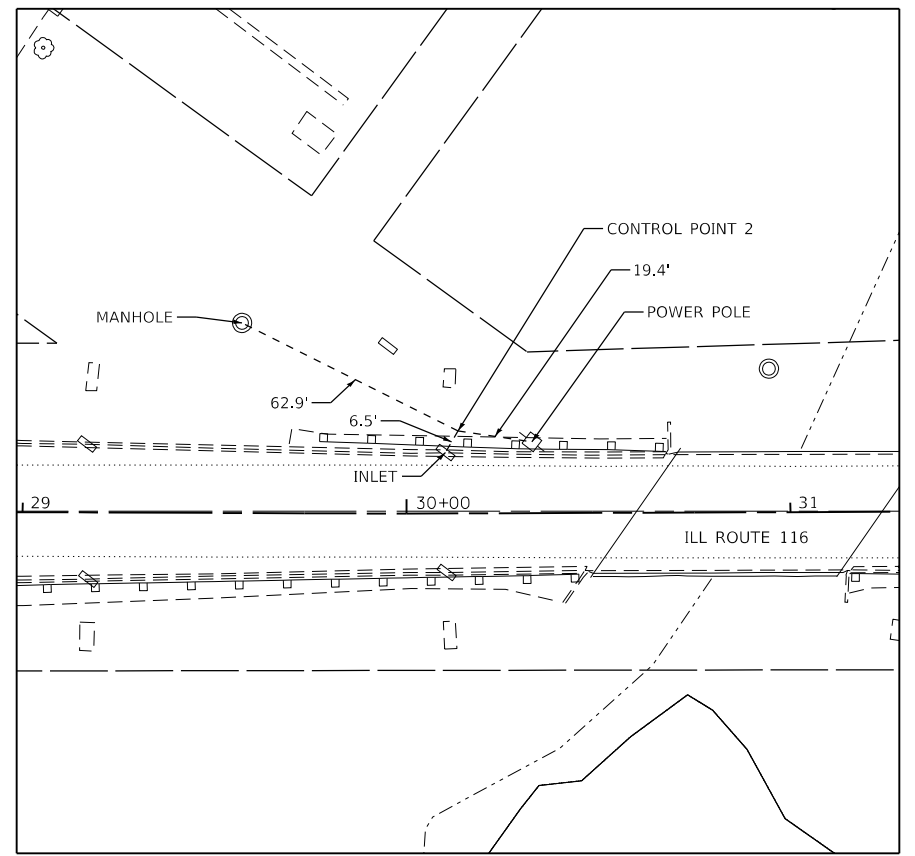
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	13
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				



CONTROL POINT 1 (STA. 23+53.74, 29.70' LT)



CONTROL POINT 2 (STA. 30+13.49, 21.46' LT)



CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1,505,680.11	2,565,638.39	726.03	PIN AT THE NE CORNER OF STATE ST. AND ILL ROUTE 116 INTERSECTION
2	1,506,055.57	2,566,171.97	719.45	PIN AT THE SW QUADRANT OF ILL ROUTE 116 BRIDGE OVER W. BRANCH OF PANTHER CREEK

PROPOSED ALIGNMENT COORDINATES - ILL ROUTE 116

POINT	STATION	NORTHING	EASTING
PI	28+25.00	1,505,924.97	2,566,034.60
PI	30+00.00	1,506,030.34	2,566,174.32
PI	31+75.00	1,506,136.77	2,566,313.24

BENCHMARK
 CHISELED SQUARE ON NORTHEAST CORNER OF CURB HUBGUARD FOR SN 102-0042.
 ELEVATION 720.48

NOTE
 THE LOCATION OF THE PROPOSED PERMANENT SURVEY MARKER, TYPE 1 SHALL BE DETERMINED BY THE RESIDENT ENGINEER DURING CONSTRUCTION.

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 DATE: 12/10/2019



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 DATE - 4-11-2019

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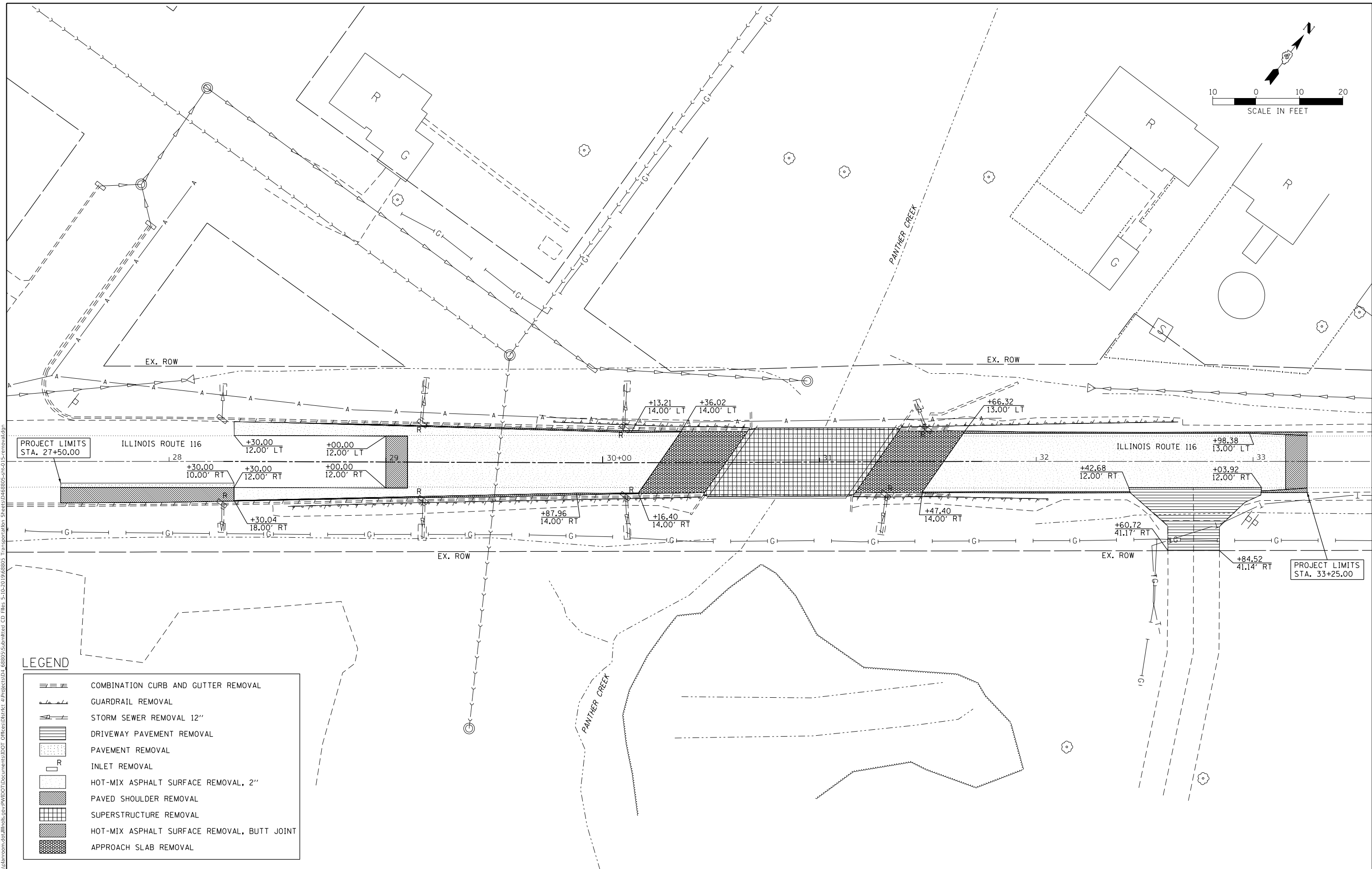
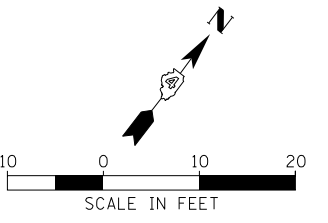
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES AND BENCHMARKS
 IL 116 OVER WEST BRANCH OF PANTHER CREEK**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BR	WOODFORD	51	14

CONTRACT NO. 68805
 ILLINOIS FED. AID PROJECT



LEGEND

	COMBINATION CURB AND GUTTER REMOVAL
	GUARDRAIL REMOVAL
	STORM SEWER REMOVAL 12"
	DRIVEWAY PAVEMENT REMOVAL
	PAVEMENT REMOVAL
	INLET REMOVAL
	HOT-MIX ASPHALT SURFACE REMOVAL, 2"
	PAVED SHOULDER REMOVAL
	SUPERSTRUCTURE REMOVAL
	HOT-MIX ASPHALT SURFACE REMOVAL, BUTT JOINT
	APPROACH SLAB REMOVAL

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

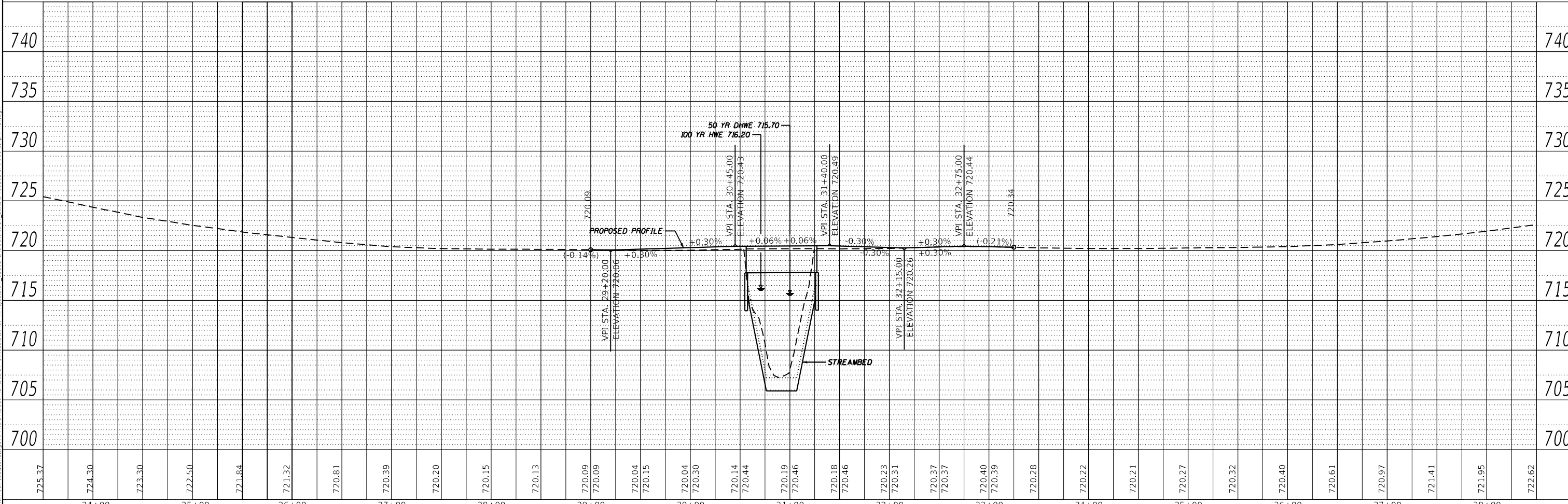
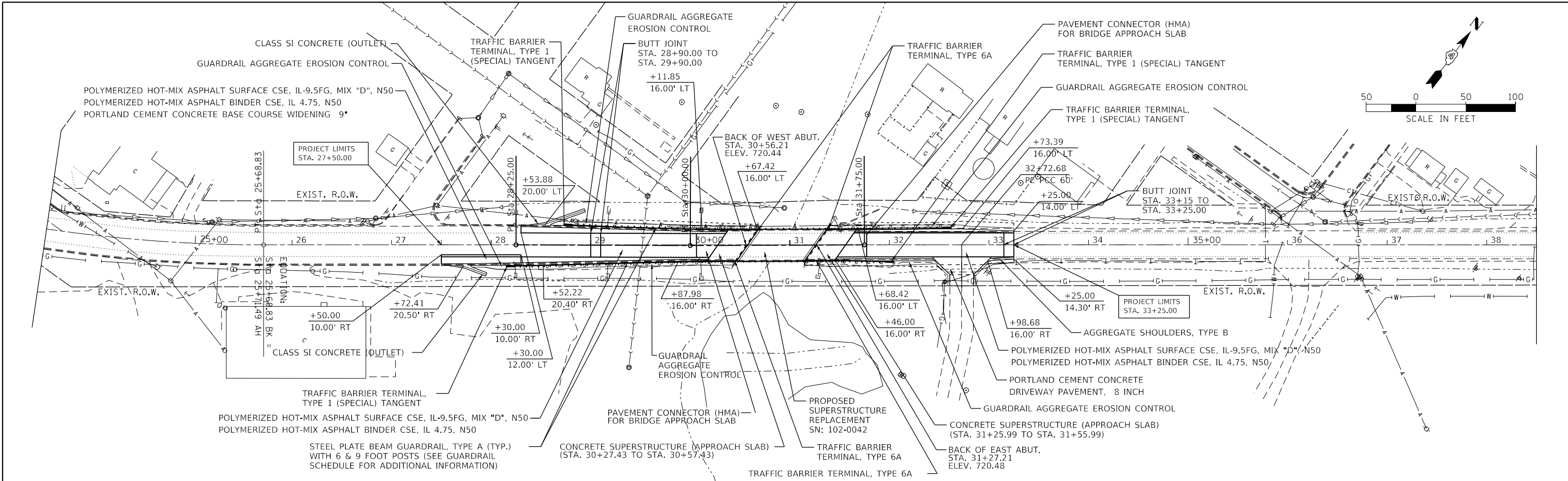
REMOVAL PLAN			
IL 116 OVER WEST BRANCH OF PANTHER CREEK			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	15
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
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	GRADES CHECKED	
	STRUCTURE NOTATIONS CHWD	

PROFILE	SURVEYED	DATE
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	STRUCTURE NOTATIONS CHWD	

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 SHEET: 16
 DATE: 12/10/2019



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TERRA
ENGINEERING LTD.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
IL ROUTE 116 OVER WEST BRANCH OF PANTHER CREEK

F.A.P. RTE. 673	SECTION (108-BR)BRR	COUNTY WOODFORD	TOTAL SHEETS 51	SHEET NO. 16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68805	

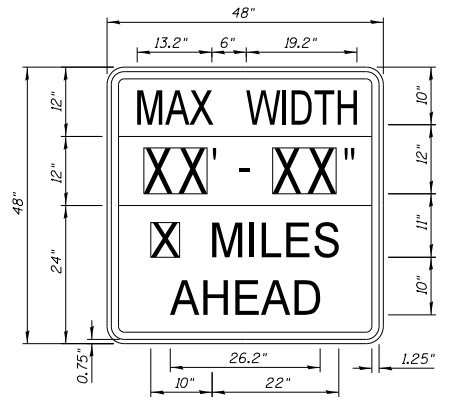
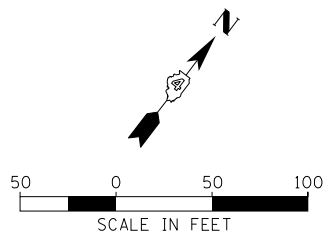
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LEGEND

- TEMPORARY SIGNAGE
- ⌋ TYPE III BARRICADE
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- ◀ TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- ▶ MICROWAVE DETECTORS
- ▬ TEMPORARY CONCRETE BARRIER
- ▨ CONSTRUCTION ZONE
- ▩ TEMPORARY RAMP
- ▭ PAVED SHOULDER REMOVAL AND BASE COURSE WIDENING (CONSTRUCTED IN PRE-STAGE)
- - - CURB AND GUTTER REMOVAL

NOTES:

- 1) APPROACH TRAFFIC CONTROL NOT SHOWN SHALL BE ERECTED ACCORDING TO IDOT STANDARD 701321.
- 2) SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
- 3) ADDITIONAL SIGNAGE FOR ENTRANCE AND ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321 (SPECIAL).
- 4) ALL TRAFFIC SIGNALS SHOWN ARE INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.
- 5) THE ADDITIONAL DETECTION LOOPS AT THE ENTRANCE (STA. 32+70 RT.) ARE INCLUDED IN THE TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.
- 6) TEMPORARY BRIDGE TRAFFIC SIGNALS SHALL BE A 4-PHASE SIGNAL WITH ACTUATION PROVIDED FOR THE ENTRANCE AT STA. 32+70 RT. AS WELL AS FOR IL. 116 INTERSECTION.

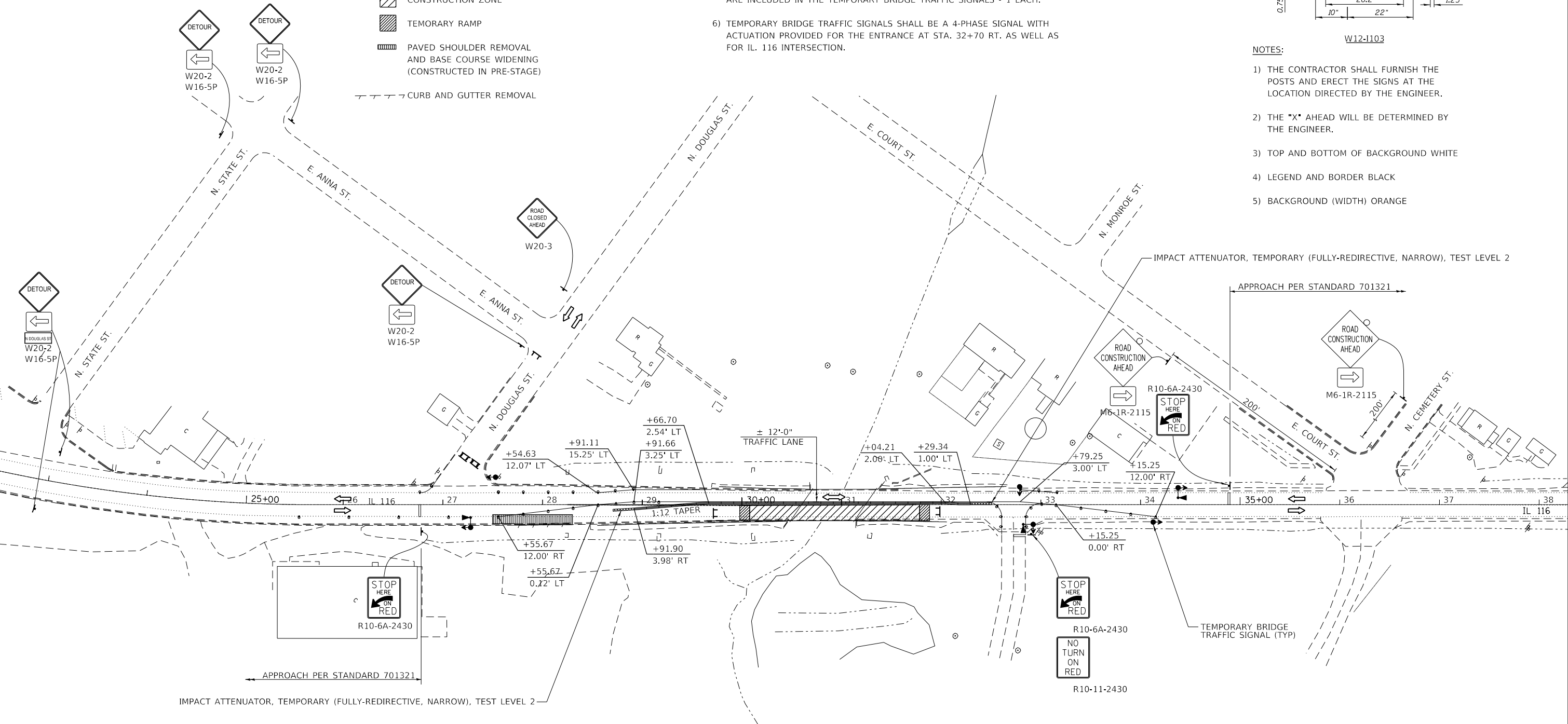


W12-1103

NOTES:

- 1) THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT THE SIGNS AT THE LOCATION DIRECTED BY THE ENGINEER.
- 2) THE "X" AHEAD WILL BE DETERMINED BY THE ENGINEER.
- 3) TOP AND BOTTOM OF BACKGROUND WHITE
- 4) LEGEND AND BORDER BLACK
- 5) BACKGROUND (WIDTH) ORANGE

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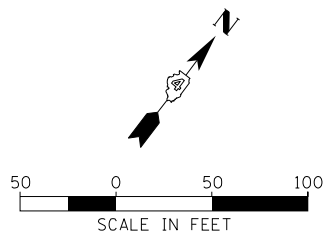
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE I TRAFFIC CONTROL
IL 116 OVER WEST BRANCH OF PANTHER CREEK**

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

F.A.P. RTE. 673	SECTION (108-BR)BRR	COUNTY WOODFORD	TOTAL SHEETS 51	SHEET NO. 18
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				

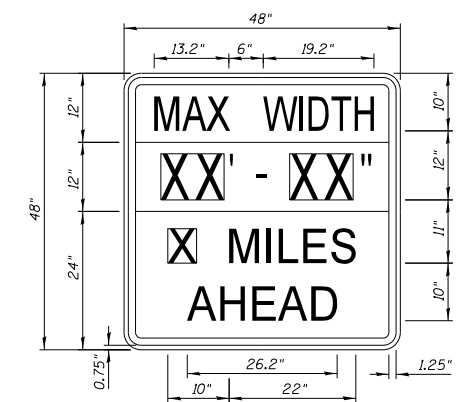


LEGEND

- TEMPORARY SIGNAGE
- ⌋ TYPE III BARRICADE
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- ◀ TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- ▶ MICROWAVE DETECTORS
- ▬ TEMPORARY CONCRETE BARRIER
- ▨ CONSTRUCTION ZONE
- ▩ TEMPORARY RAMP
- ▭ PAVED SHOULDER REMOVAL AND BASE COURSE WIDENING (CONSTRUCTED IN PRE-STAGE)

NOTES:

- 1) APPROACH TRAFFIC CONTROL NOT SHOWN SHALL BE ERECTED ACCORDING TO IDOT STANDARD 701321.
- 2) SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
- 3) ADDITIONAL SIGNAGE FOR ENTRANCE AND ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321 (SPECIAL).
- 4) ALL TRAFFIC SIGNALS SHOWN ARE INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.
- 5) THE ADDITIONAL DETECTION LOOPS AT THE ENTRANCE (STA. 32+70 RT.) AND AT DOUGLAS ST. ARE INCLUDED IN THE TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.
- 6) TEMPORARY BRIDGE TRAFFIC SIGNALS SHALL BE A 4-PHASE SIGNAL WITH ACTUATION PROVIDED FOR THE ENTRANCE AT STA. 32+70 RT. AS WELL AS FOR THE NORTH LEG OF DOUGLAS ST. AND IL. 116 INTERSECTION.

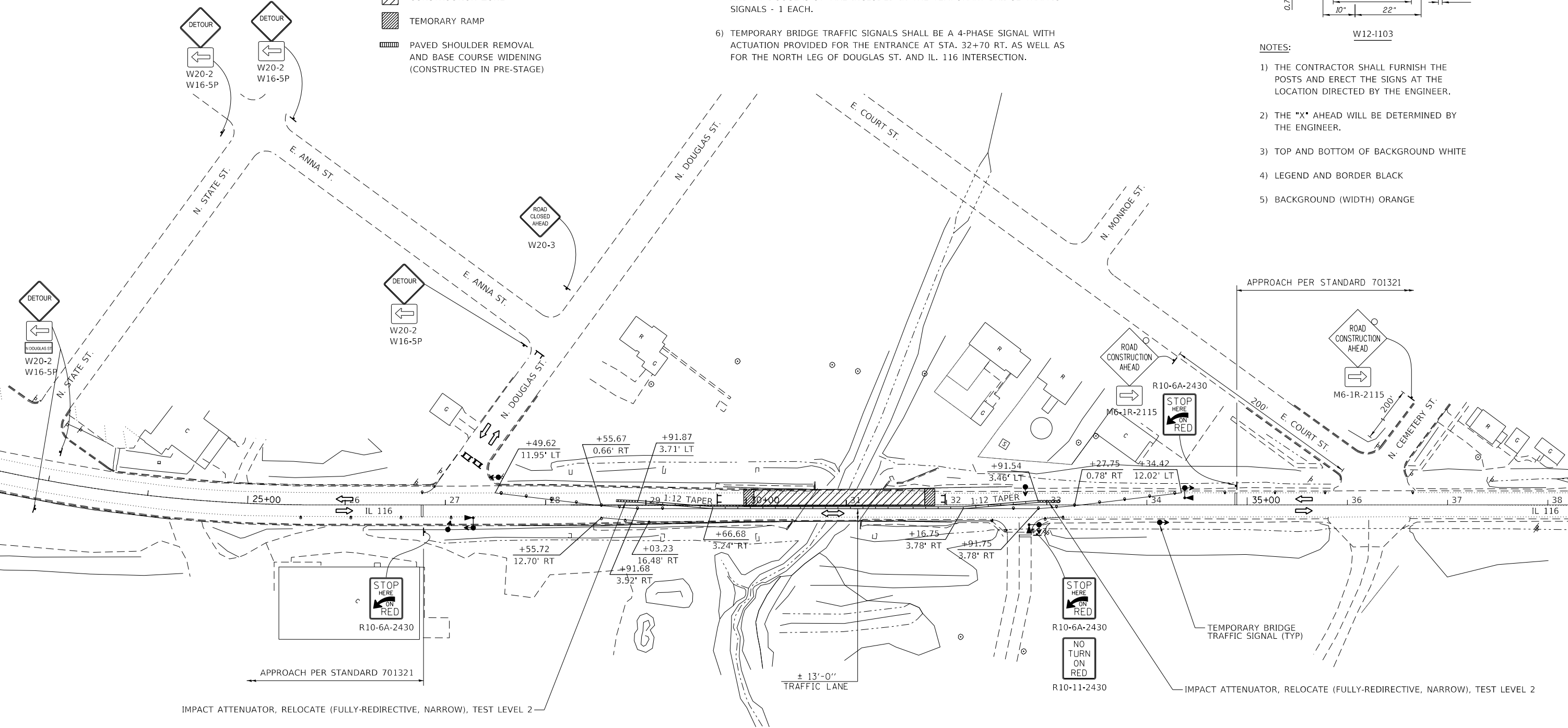


W12-1103

NOTES:

- 1) THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT THE SIGNS AT THE LOCATION DIRECTED BY THE ENGINEER.
- 2) THE "X" AHEAD WILL BE DETERMINED BY THE ENGINEER.
- 3) TOP AND BOTTOM OF BACKGROUND WHITE
- 4) LEGEND AND BORDER BLACK
- 5) BACKGROUND (WIDTH) ORANGE

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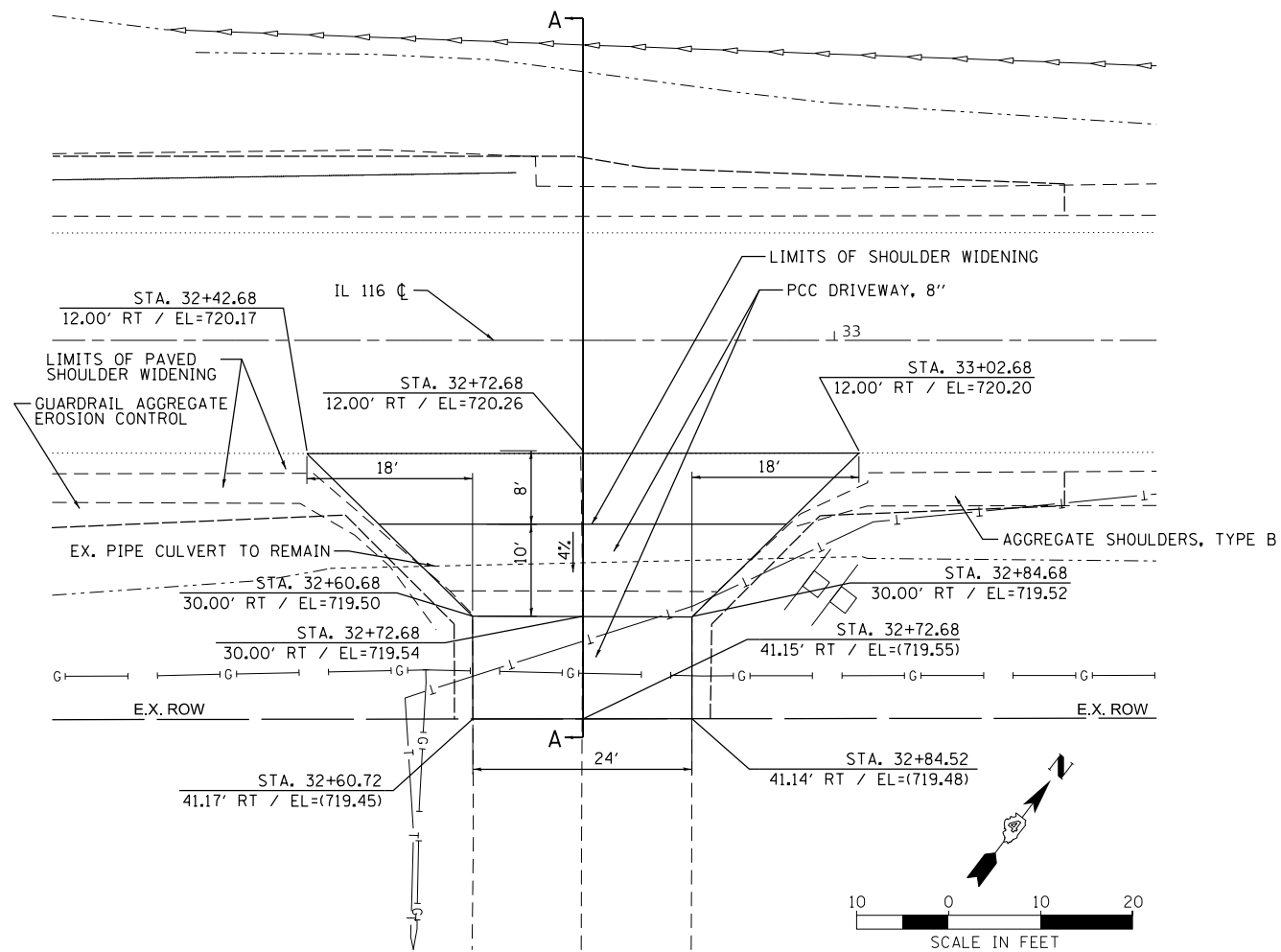
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

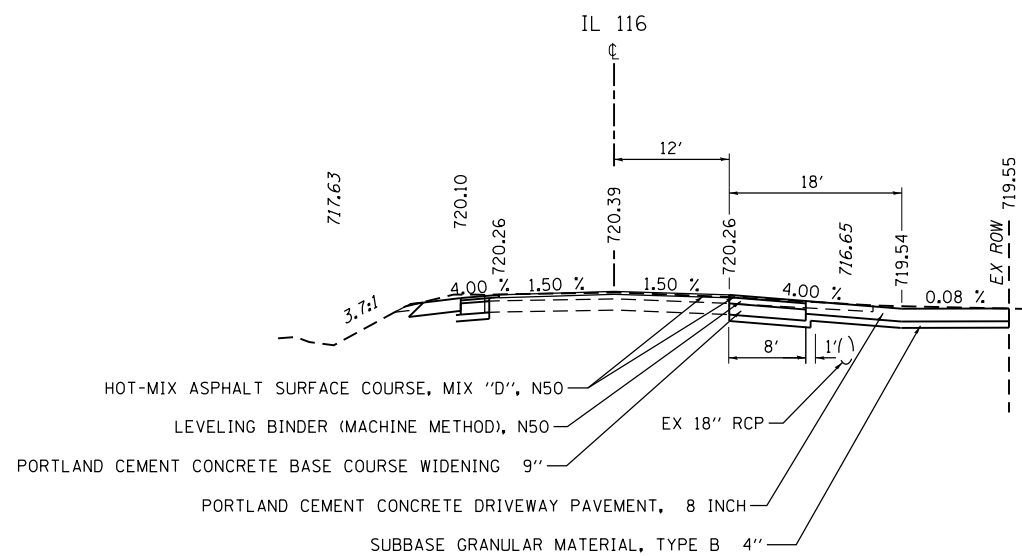
**STAGE II TRAFFIC CONTROL
IL 116 OVER WEST BRANCH OF PANTHER CREEK**

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

F.A.P. RTE. 673	SECTION (108-BR)BRR	COUNTY WOODFORD	TOTAL SHEETS 51	SHEET NO. 19
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				



PLAN VIEW



SECTION A-A

DRIVEWAY DETAIL (STA. 32+72.68)

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	DATE - 4-11-2019	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS
 IL 116 OVER WEST BRANCH OF PANTHER CREEK

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	20
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				

Benchmark: Chiseled "d" on northeast corner of curb hubguard for SN 102-0042, Sta. 141+10±, Offset 15.5' left, Elevation 720.48.

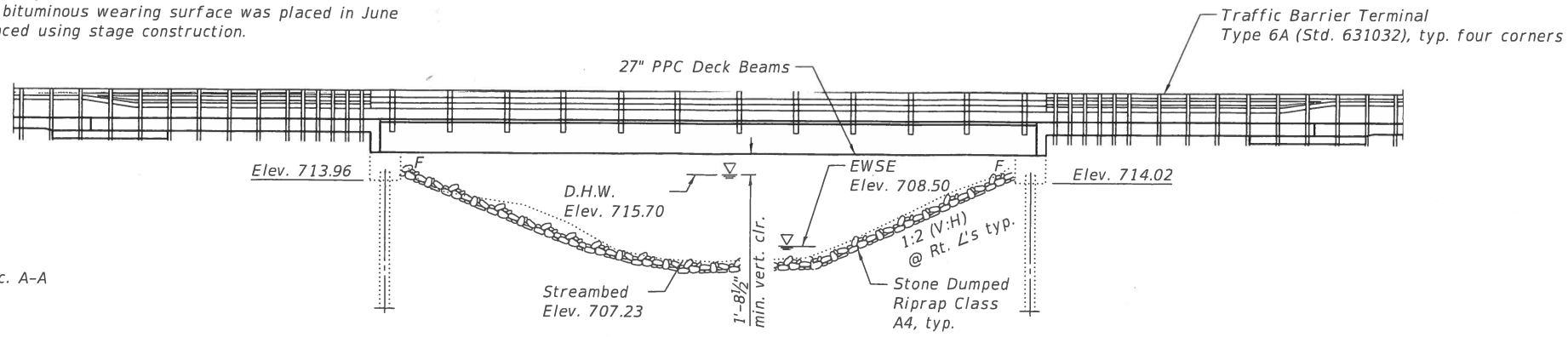
Existing Structure: SN 102-0042 was built in 1984 as F.A.P. Route 673, Section 108BR at Sta. 30+91.71 as a single span precast prestressed concrete deck beam bridge. Back-to-back of abutment length is 71'-0", width is 32'-0" out-out and supported on steel H-piles. A 3" bituminous wearing surface was placed in June 2009. Superstructure to be replaced using stage construction.

No Salvage.

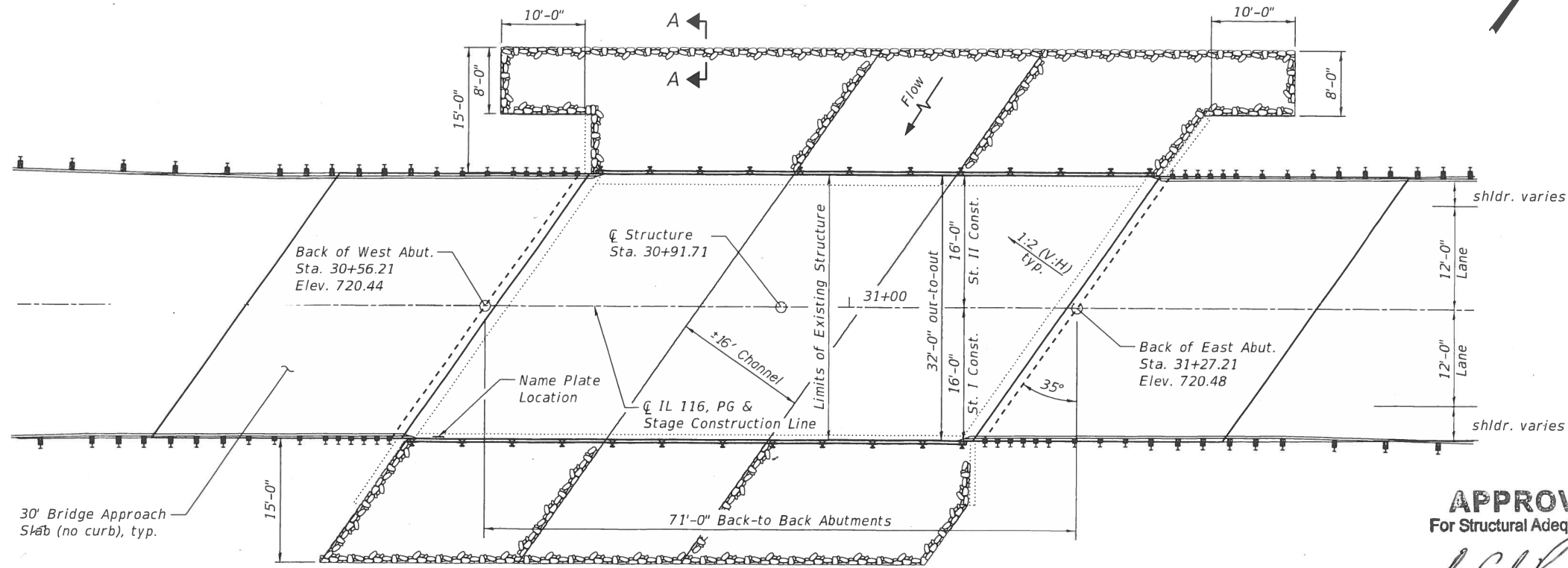
Note: See Sheet 2 of 12 for Sec. A-A

SCOPE OF WORK

1. Remove and replace existing Superstructure
2. Repair the Substructure.
3. Install Riprap.



ELEVATION



PLAN

WATERWAY INFORMATION

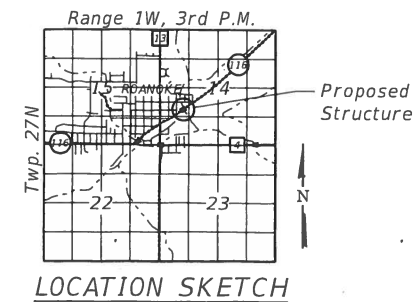
Flood Event	Freq. Yr.	Discharge Ft ³ /s	Waterway Opening - ft ²		Natural H.W.E. ft.	Head - ft.		Headwater Elevation ft.	
			Existing	Proposed		Existing	Proposed	Existing	Proposed
Design	10	672	220	231	714.10	0.1	0.1	714.20	714.20
Base	50	1090	306	317	715.70	0.1	0.1	715.80	715.80
Scour Design Check	100	1280	343	354	716.20	0.2	0.2	716.40	716.40
Overtop Existing	200	1405	366	377	716.60	0.2	0.2	716.80	716.80
Overtop Proposed									
Max. Calc.	500	1740	418	429	717.40	0.4	0.4	717.80	717.80

10 Year Velocity Through Existing Bridge = 3.50ft/s

10 Year Velocity Through Proposed Bridge = 3.50ft/s

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
29+20.06	720.06	30+45.00	720.43	31+40.00	720.49	32+15.00	720.26	32+75.00	720.44

PROFILE GRADE
(Along \bar{C} IL 116)



LOCATION SKETCH

DESIGN SPECIFICATIONS
2017 AASHTO LRFD Bridge Design Specification, 8th Edition
1995 FHWA Seismic Retrofit Manual for Highway Bridges

DESIGN STRESSES

FIELD UNITS (NEW CONST.)

$f'_c = 3,500$ psi (Substructure)
 $f'_c = 4,000$ psi (Approach Pavements)
 $f'_c = 5,000$ psi (Concrete Wearing Surface)
 $f_y = 60,000$ (Reinforcement)

FIELD UNITS (EXIST. CONST.)

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ psi
 $f'_ci = 5,000$ psi
 $f_{pu} = 270,000$ psi ($\frac{1}{2}$ " \bar{L} Low Lax Strands)
 $f_{pbt} = 201,960$ psi ($\frac{1}{2}$ " \bar{L} Low Lax Strands)

LOADING HL-93 (NEW CONST.)

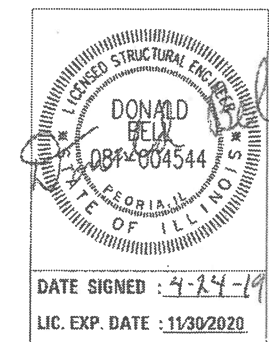
Allow 25#/sq. ft. for Future Wearing Surface.

SEISMIC DATA

Seismic Performance Category (SPC) = A
Horizontal Bedrock Acceleration Coefficient = 0.042g
Site Coefficient (S) = 1.5

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)		Item 113
	W. Abut.	E. Abut.	
Q100	713.96	714.02	8
Q200	713.96	714.02	
Design	713.96	714.02	
Check	N/A	N/A	



APPROVED
For Structural Adequacy Only

Donald Bell
Engineer of Bridges & Structures

GENERAL PLAN
ILLINOIS ROUTE 116 OVER
WEST BRANCH OF PANTHER CREEK
F.A.P. RTE. 673 - SEC. (108-BR)BRR
WOODFORD COUNTY
STA 30+91.71
STRUCTURE NO. 102-0042

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 102-0042
SHEET 1 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	21

CONTRACT NO. 68805
ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

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

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

INDEX OF SHEETS

- 1 - General Plan and Elevation
- 2 - General Data and Stage Construction Details
- 3 - Temporary Concrete Barrier for Stage Construction
- 4 - Superstructure
- 5 - Superstructure Details
- 6 - 27" x 48" PPC Deck Beam
- 7 - 27" x 48" PPC Deck Beam Details
- 8 - Bridge Approach Slab Details 1
- 9 - Bridge Approach Slab Details 2
- 10 - Steel Railing, Type SM with Concrete Wearing Surface
- 11 - Abutment Repairs
- 12 - Bar Splicer Assembly and Mechanical Splicer Details

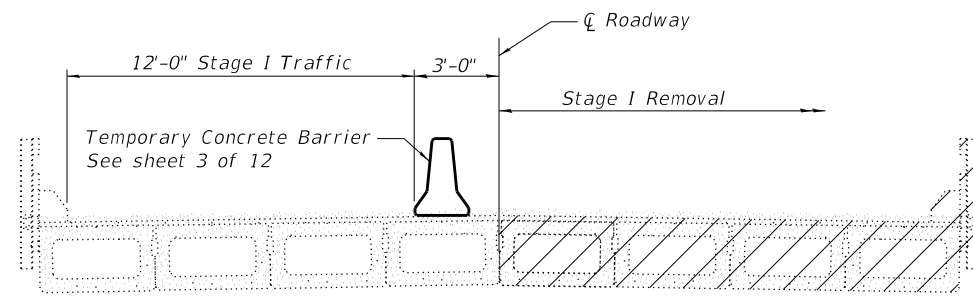
STATION 30+91.71
RE-BUILT BY
STATE OF ILLINOIS
FAP RT. 673 SEC. (108-BR)BRR
LOADING HL-93
STRUCTURE NO. 102-0042

NAME PLATE

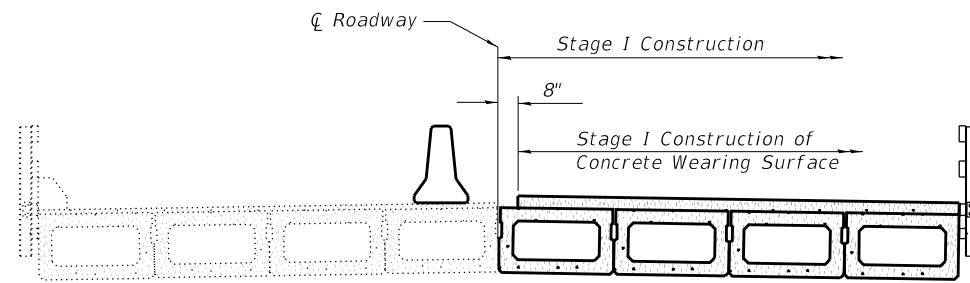
See Std. 515001
Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

TOTAL BILL OF MATERIAL

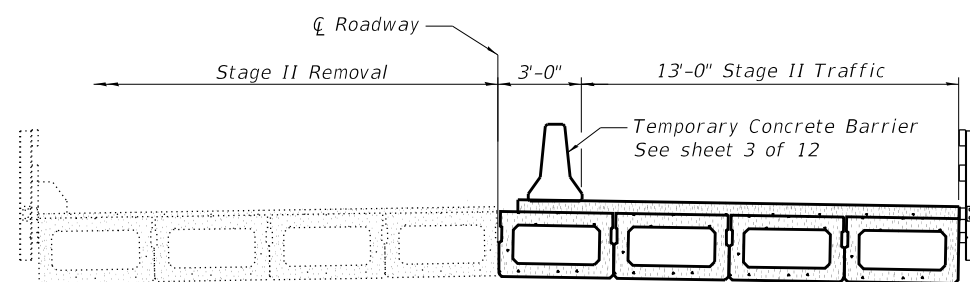
ITEM	UNIT	SUPER	SUB	TOTAL
Stone Dumped Riprap, Class A4	SQ YD		553	553
Filter Fabric	SQ YD		553	553
Removal Of Existing Superstructures	EACH	1		1
Structure Excavation	CU YD		9	9
Concrete Structures	CU YD		28.5	28.5
Bridge Deck Grooving	SQ YD	429		429
Protective Coat	SQ YD	458		458
Concrete Superstructure (Approach Slab)	CU YD	88.9		88.9
Precast Prestressed Concrete Deck Beams (27" Depth)	SQ FT	2194		2194
Reinforcement Bars, Epoxy Coated	POUND	38,860	4270	43,130
Bar Splicers	EACH	283	86	369
Epoxy Crack Injection	FOOT		6	6
Steel Railing, Type SM	FOOT	138		138
Name Plates	EACH	1		1
Concrete Wearing Surface, 5"	SQ YD	244		244
Asbestos Bearing Pad Removal	EACH		18	18
Structural Repair Of Concrete (Depth Equal to or less Than 5 Inches)	SQ FT		7	7



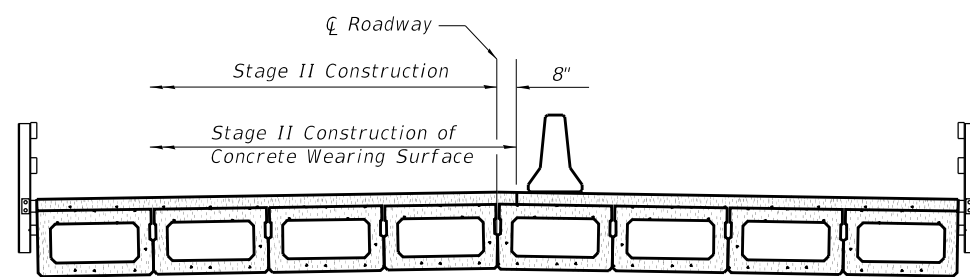
STAGE I REMOVAL



STAGE I CONSTRUCTION

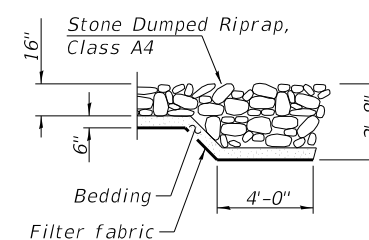
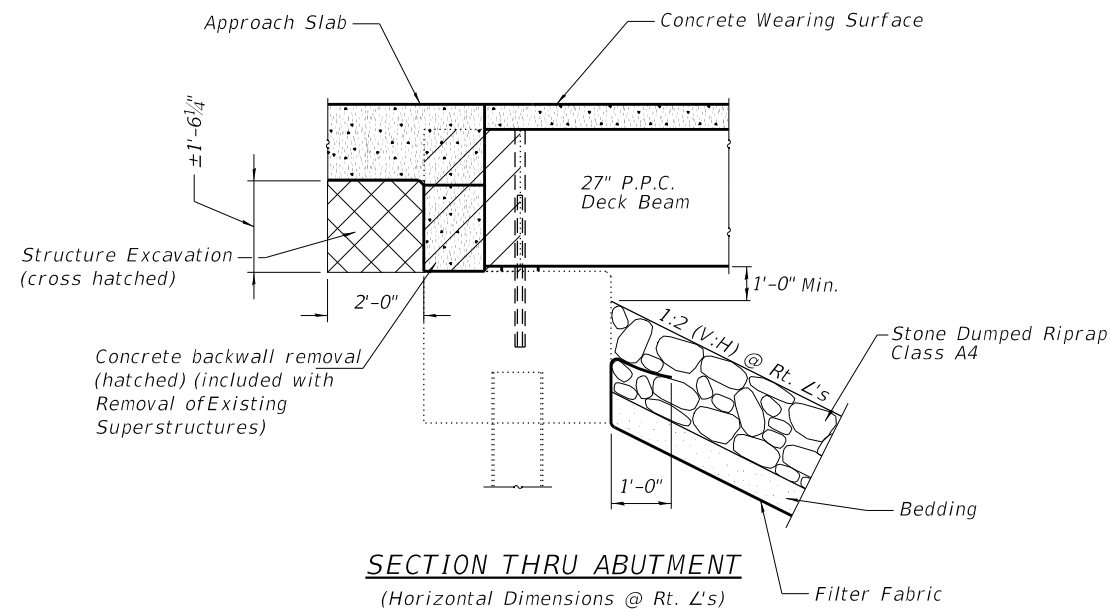


STAGE II REMOVAL



STAGE II CONSTRUCTION

Notes:
All staging cross sections are looking East.
For quantity of Temporary Concrete Barrier, see roadway plans.
Hatched area indicates Removal of Existing Superstructures.
See sheet 5 of 12 for shear key clamping details at stage construction joint.



SECTION A-A

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA AND STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 102-0042

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	22
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				

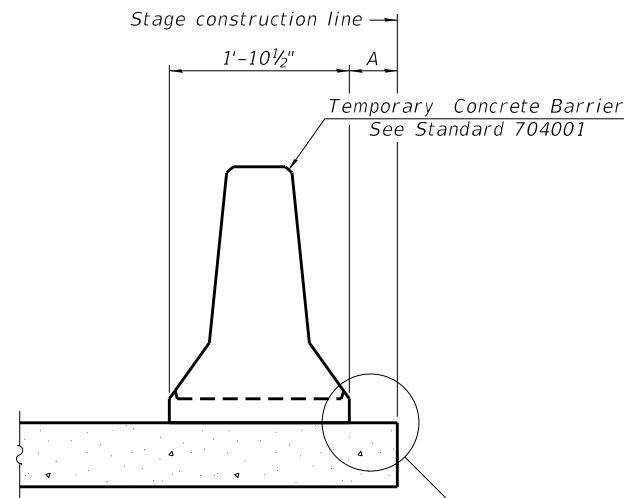
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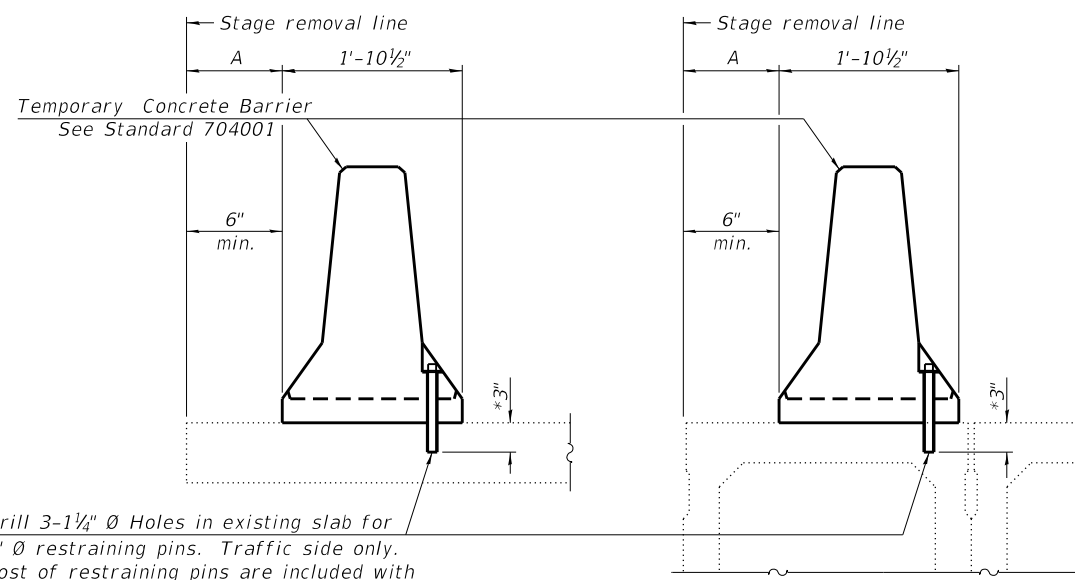
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When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

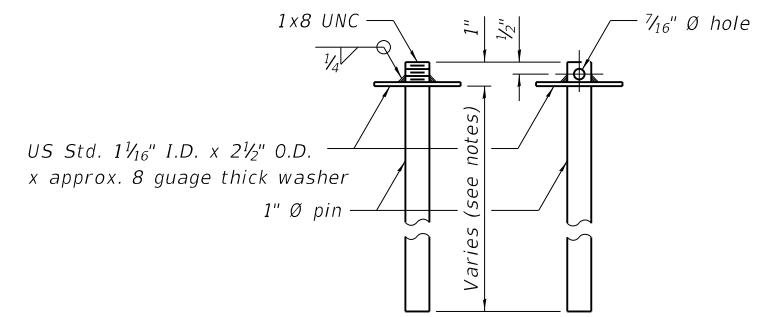


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

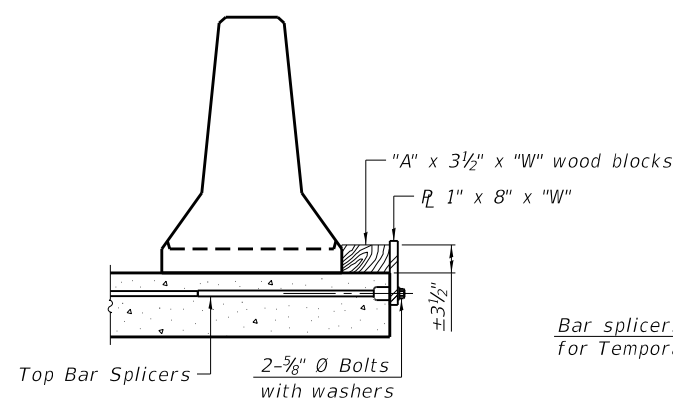
EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

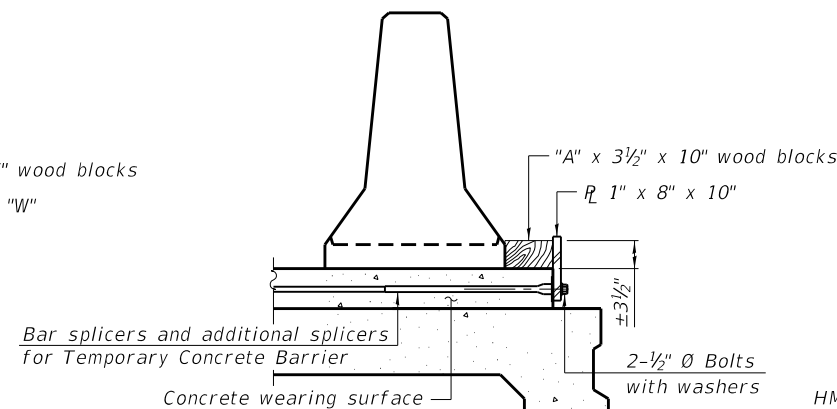


RESTRAINING PIN

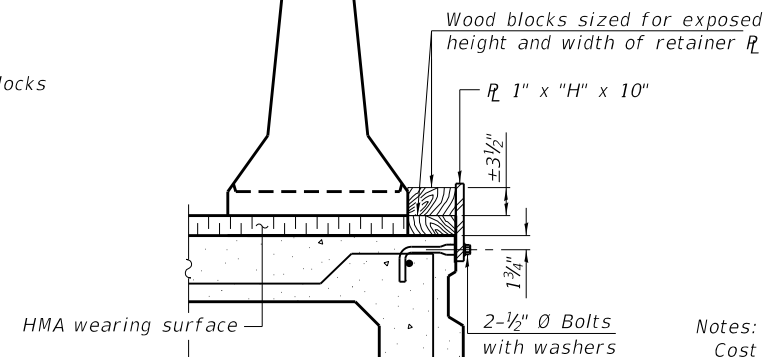
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.



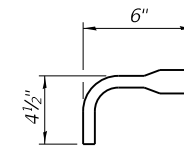
DETAIL I



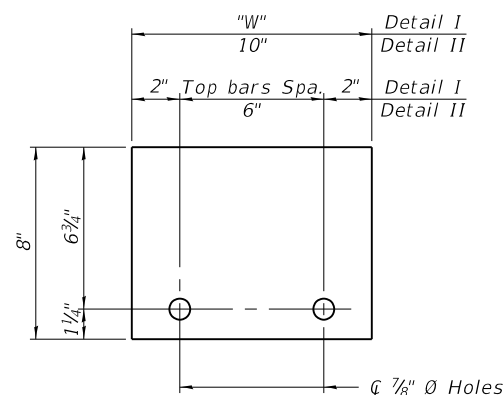
DETAIL II



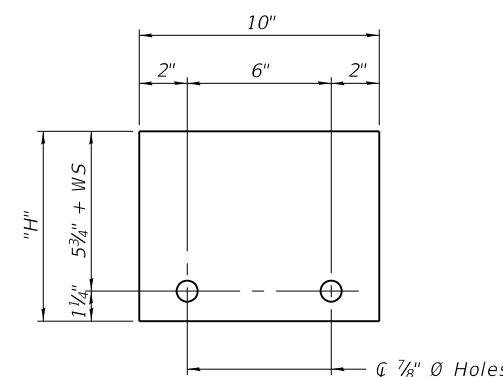
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER 1" x "H" x 10"
(Detail III)

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate center of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.
 Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
 Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

R-27 8-11-2017



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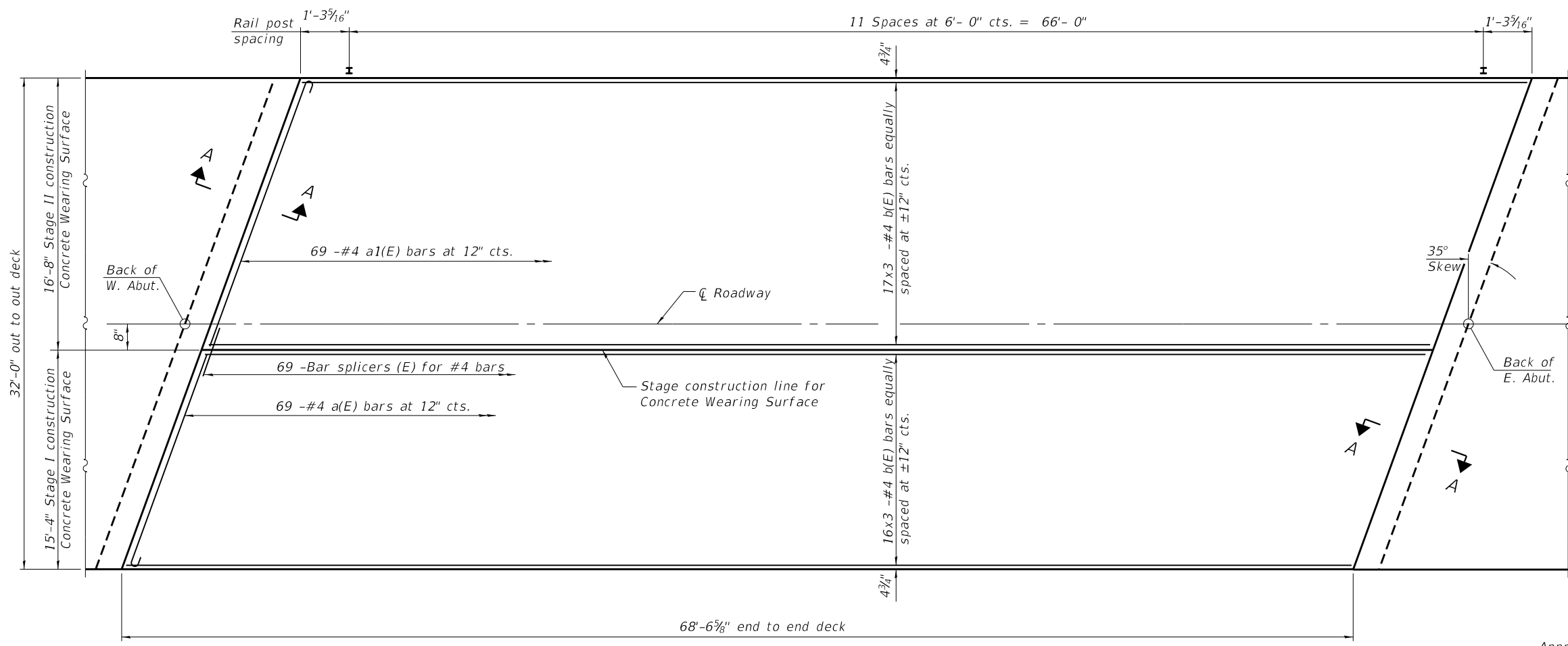
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
 STRUCTURE NO. 102-0042

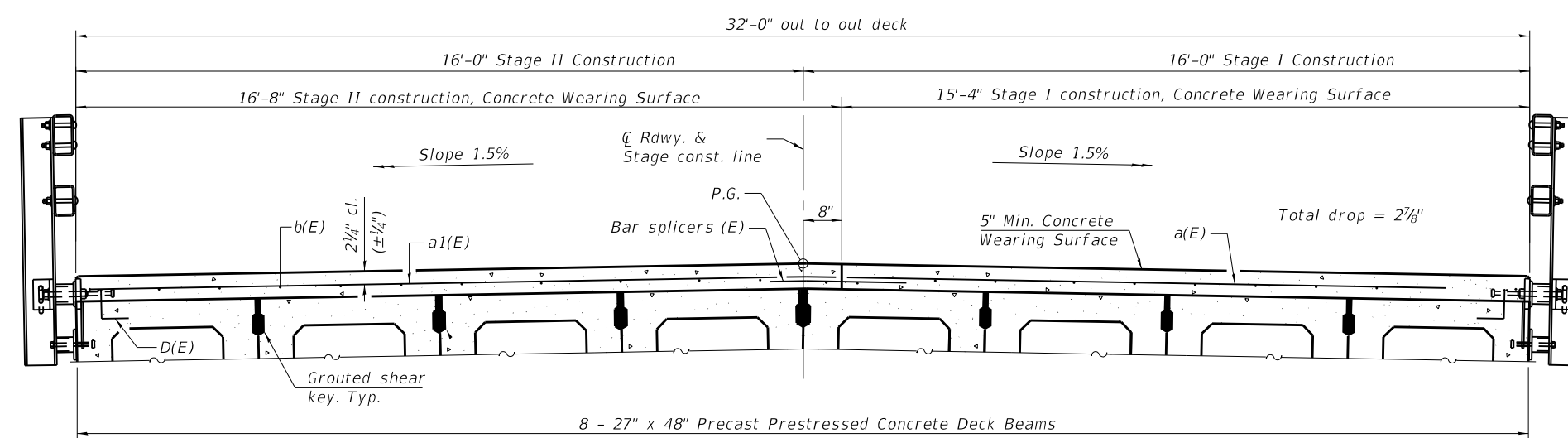
SHEET 3 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	23
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				

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PLAN

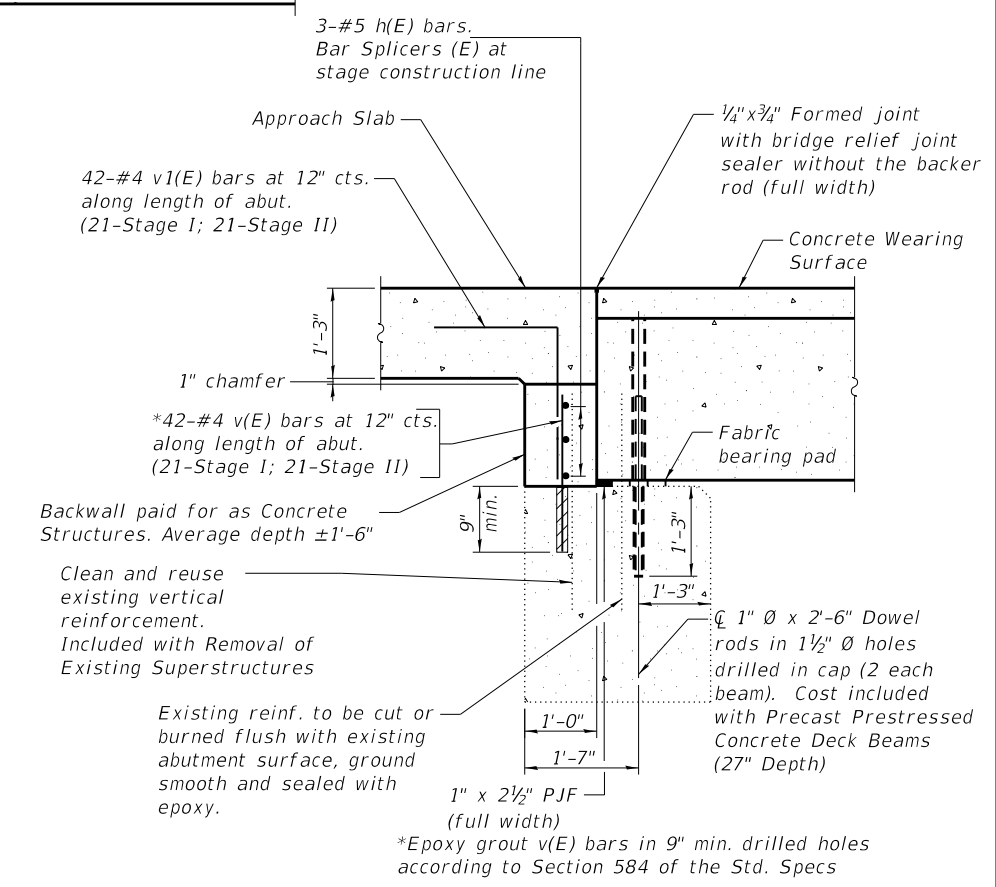


CROSS SECTION
 (Looking east)

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

Steel Railing,
 Type SM, typ.
 See sheet 10
 of 12 for details

Notes:
 See sheet 5 of 12 for Superstructure Details
 and Bill of Material.
 Bars indicated thus 20 x 2-#4 etc. indicates
 20 lines of bars with 2 lengths per line.
 Spacing of a(E) and a1(E) bars shall be measured
 along the \bar{C} of structure.



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

Notes:
 Concrete wearing surfaces for a Stage shall be placed prior to casting
 a backwall and/or approach slab for that Stage of construction.
 See sheet 7 of 12 for fabric bearing pad details.



USER NAME =	DESIGNED - DDB	REVISED -
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PLOT SCALE =	DRAWN - SI	REVISED -
PLOT DATE =	CHECKED - DDB	REVISED -

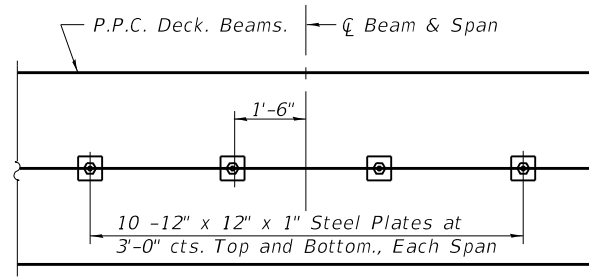
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
 STRUCTURE NO. 102-0042

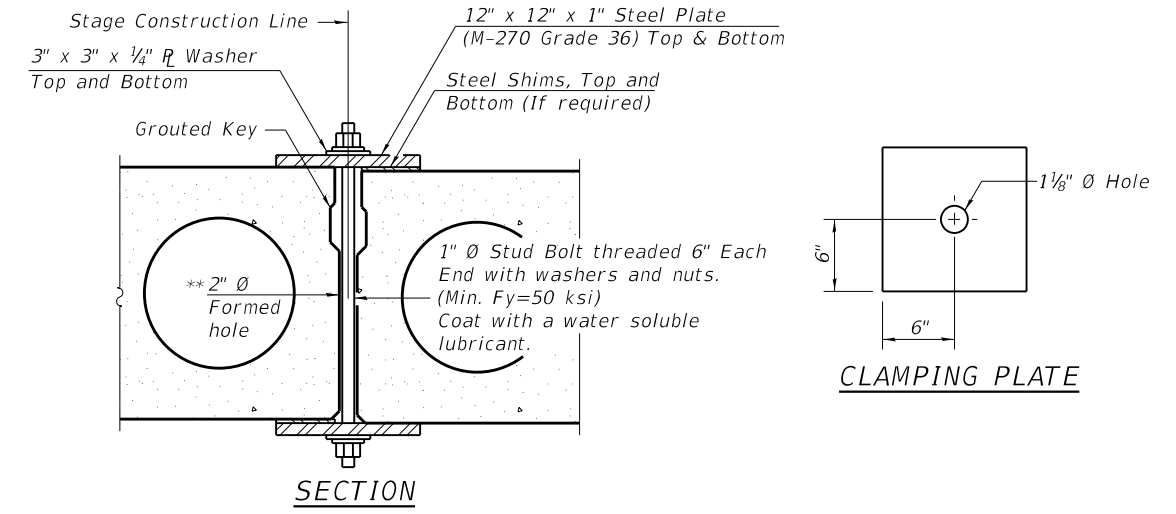
SHEET 4 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	24
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				

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PLAN

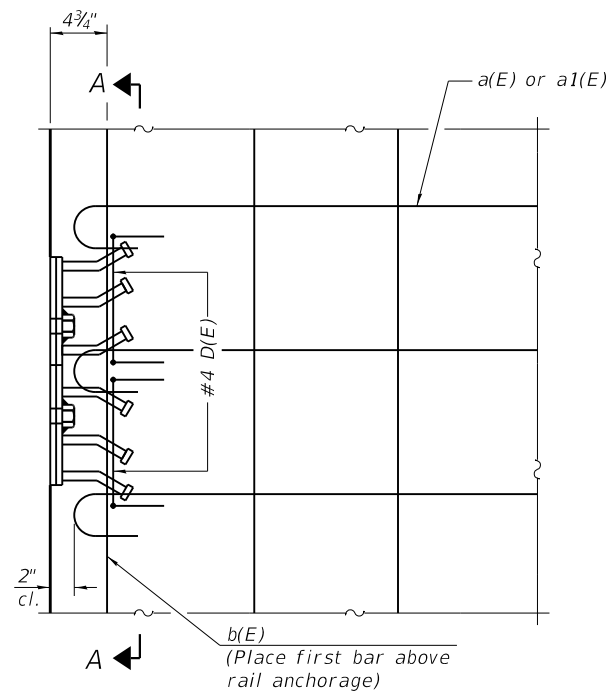


SECTION

SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.

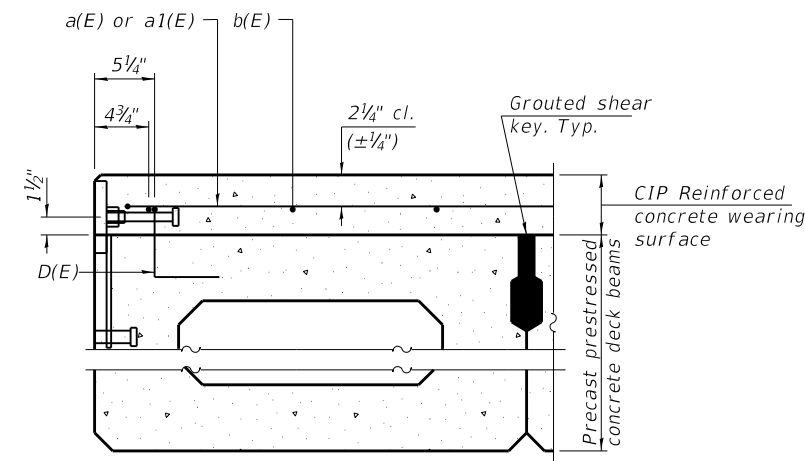
Cost included with Precast Prestressed Concrete Deck Beams.
 See Stage Construction Details for traffic lanes.

** Cast semicircular recesses in the sides of each beam adjacent to the stage construction line. These recesses should align to form a hole at the appropriate locations for the clamping device bolts.

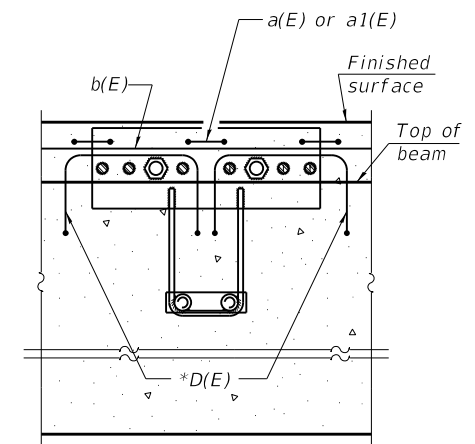


PLAN

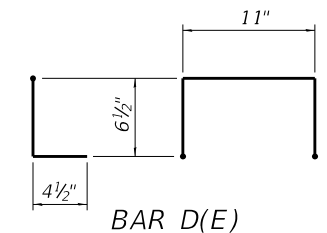
Notes:
 Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam.



SECTION THRU FASCIA BEAM

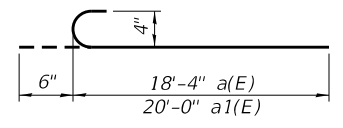


SECTION A-A

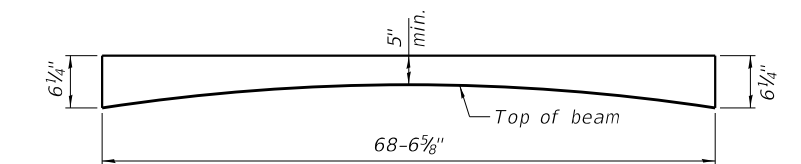


BAR D(E)

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



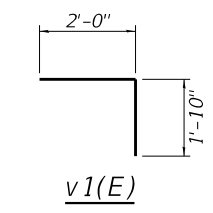
BAR a(E) and a1(E)



ANTICIPATED CONCRETE WEARING SURFACE PROFILE
 (For information only)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	69	#4	18'-10"	C
a1(E)	69	#4	20'-6"	C
b(E)	99	#4	24'-3"	—
h(E)	6	#5	19'-2"	—
v(E)	84	#4	1'-8"	—
v1(E)	84	#4	3'-10"	L
Reinforcement Bars, Epoxy Coated		Pound	3850	
Concrete Wearing Surface, 5"		Sq. Yd.	244	
Concrete Structures		Cu. Yd.	4.4	
Protective Coat		Sq. Yd.	244	
Bridge Deck Grooving		Sq. Yd.	229	



v1(E)



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CHECKED - PMH	REVISIONS -	
PLOT SCALE =	DRAWN - SI	REVISED -
PLOT DATE =	CHECKED - DDB	REVISED -

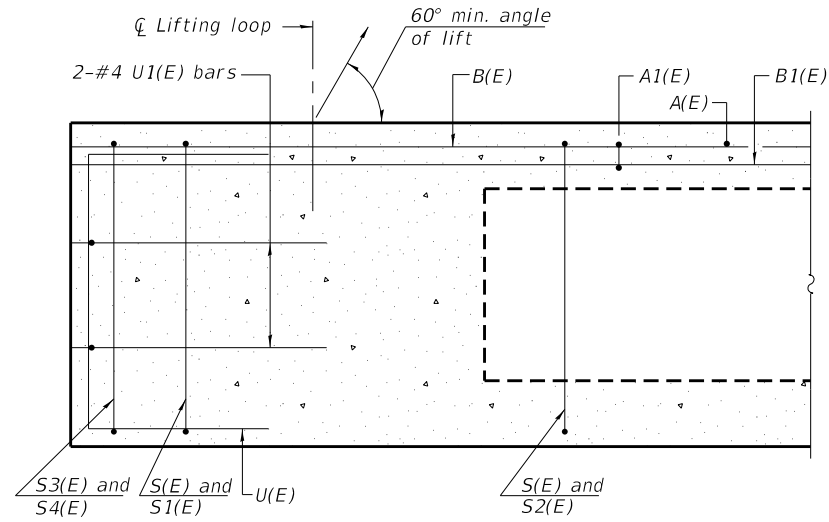
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
 STRUCTURE NO. 102-0042

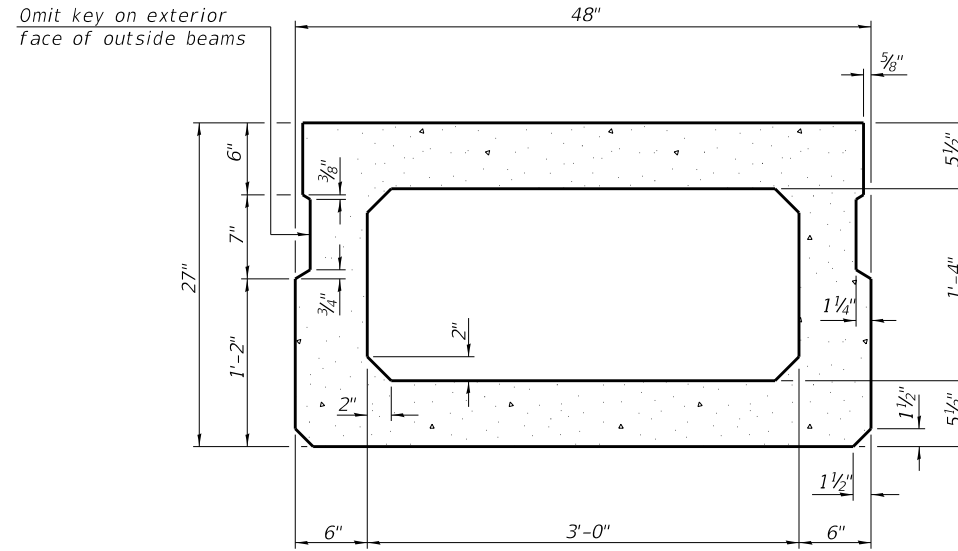
SHEET 5 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	25
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				

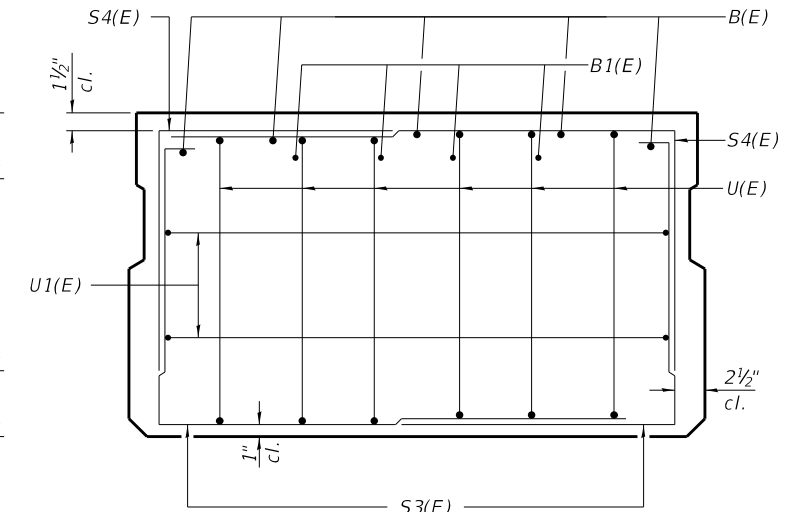
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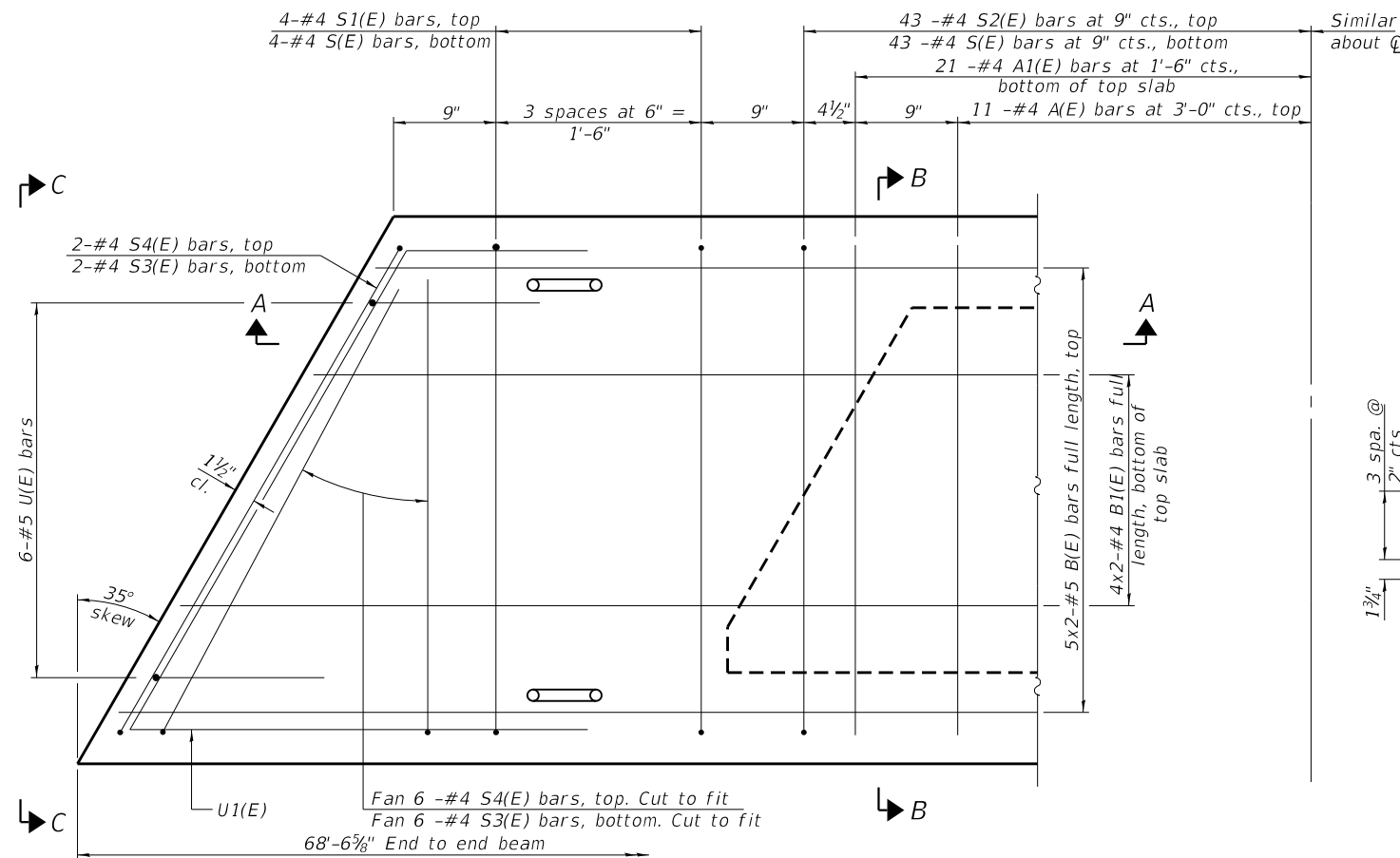
SECTION A-A



SECTION B-B
 (Showing dimensions)

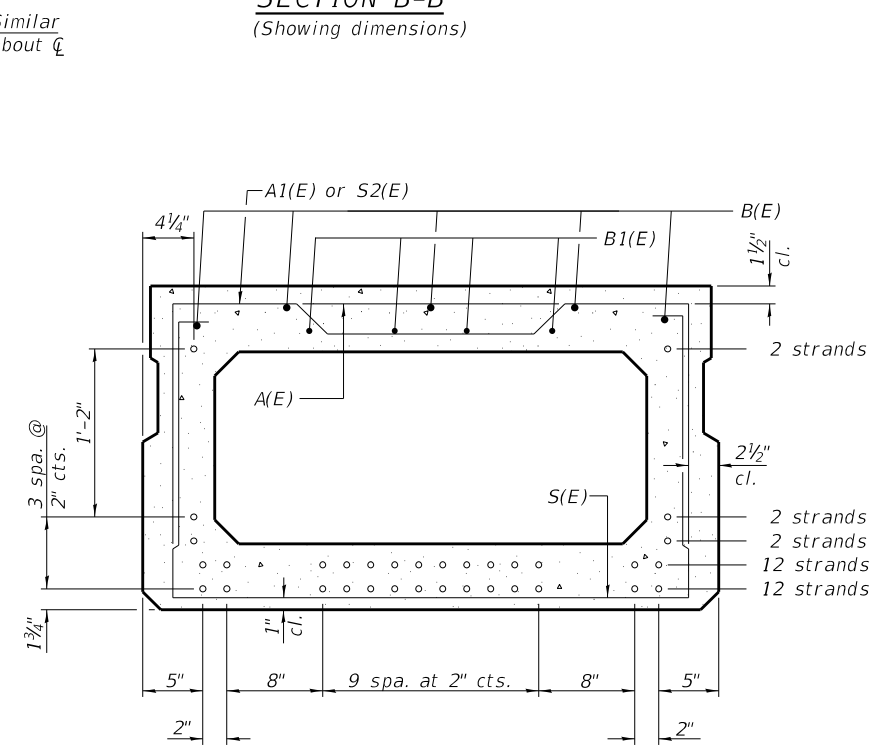


VIEW C-C



PLAN VIEW

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



SECTION B-B
 (Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

MINIMUM BAR LAP
 #4 bar = 1'-11"
 #5 bar = 2'-6"

BAR LIST
 ONE BEAM ONLY
 (For information only)

Bar	No.	Size	Length	Shape
A(E)	22	#4	3'-7"	—
A1(E)	42	#4	3'-10"	~
B(E)	10	#5	35'-4"	—
B1(E)	8	#4	35'-1"	—
D(E)	24	#4	2'-9"	L
S(E)	94	#4	8'-5"	U
S1(E)	8	#4	6'-11"	U
S2(E)	86	#4	7'-2"	U
S3(E)	16	#4	6'-9"	U
S4(E)	16	#4	6'-0"	U
U(E)	12	#5	4'-6"	U
U1(E)	4	#4	9'-3"	L

Note:
 See Sheet 7 of 12 for additional Details and bill of Material
 See sheet 5 of 12 for D(E) bars.
 *External Beams only.

PD-2748-L

2-17-2017



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	CHECKED - DDB	REVISED -

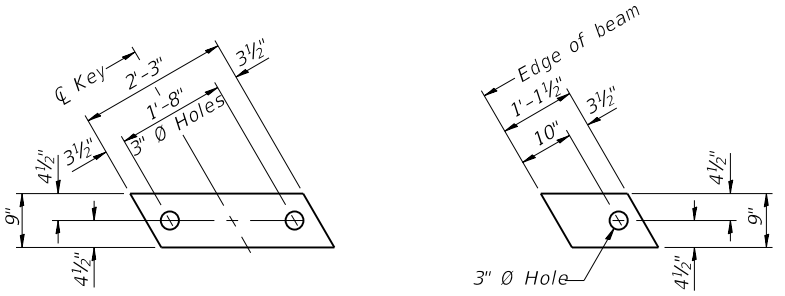
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

27" X 48" PPC DECK BEAM
 STRUCTURE NO. 102-0042

SHEET 6 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	26
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				

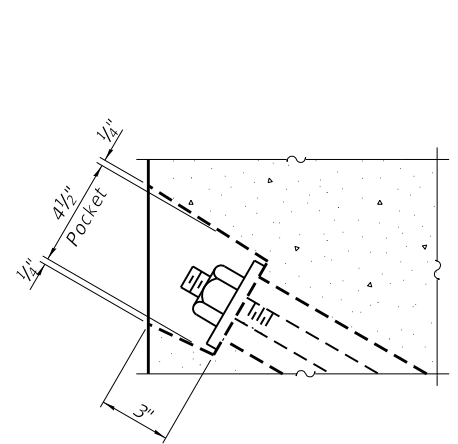
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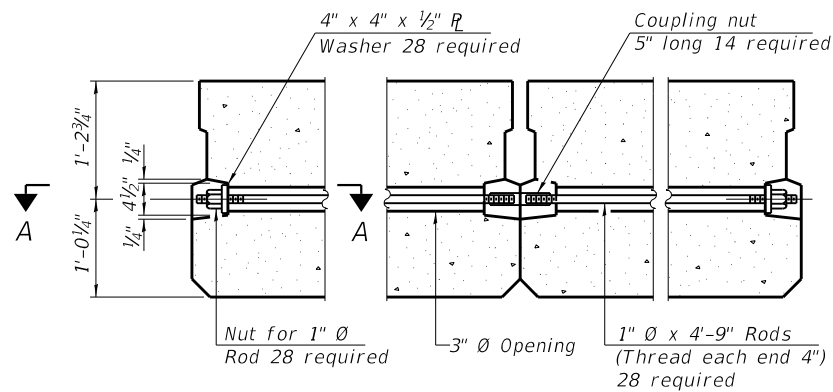
FABRIC BEARING PAD
(Interior)

FABRIC BEARING PAD
(Exterior)

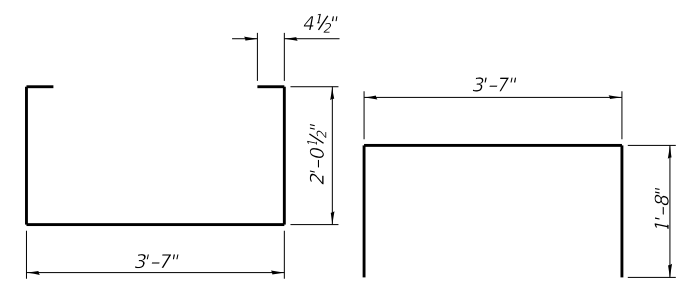
Notes:
 All bearing pads shall be 1" thick.
 Omit holes when using expansion bearings.
 Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

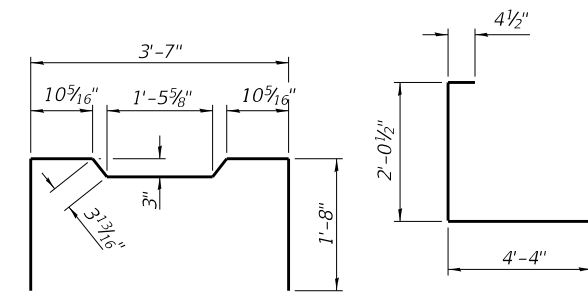


TYPICAL TRANSVERSE TIE ASSEMBLY



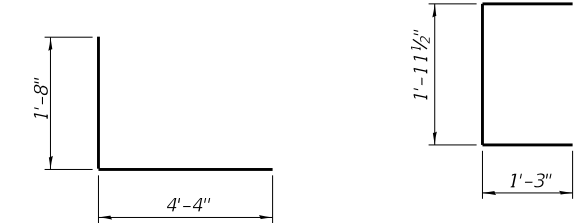
BAR S(E)

BAR S1(E)



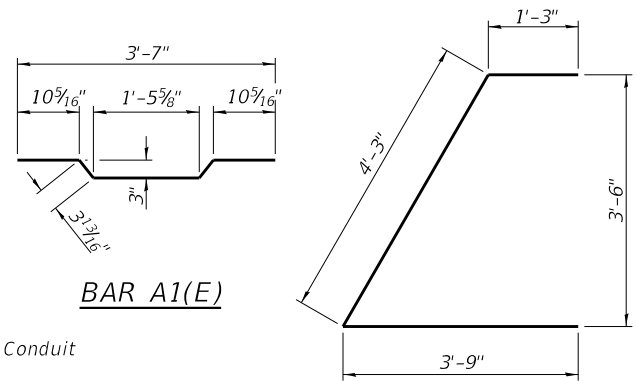
BAR S2(E)

BAR S3(E)



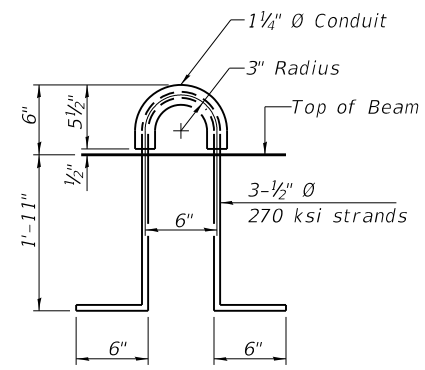
BAR S4(E)

BAR U(E)

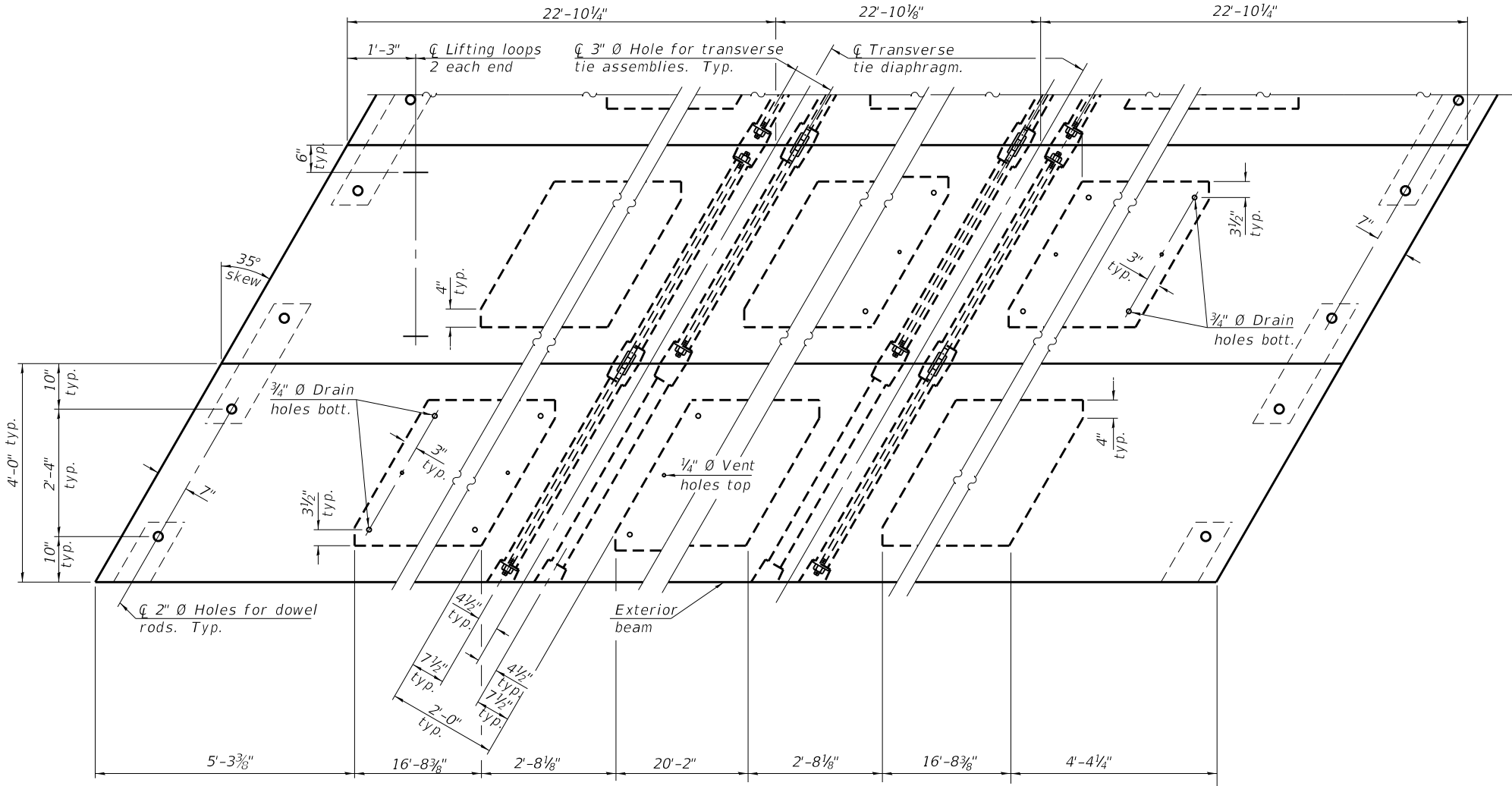


BAR A1(E)

BAR U1(E)



LIFTING LOOP DETAIL



PLAN VIEW

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place. Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

Note: Connect beams in pairs with the transverse tie configuration shown.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	2194
-------------------------------------------------	---------	------



USER NAME = ----	DESIGNED - DDB	REVISED -
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PLOT DATE = ----	DRAWN - SI	REVISED -
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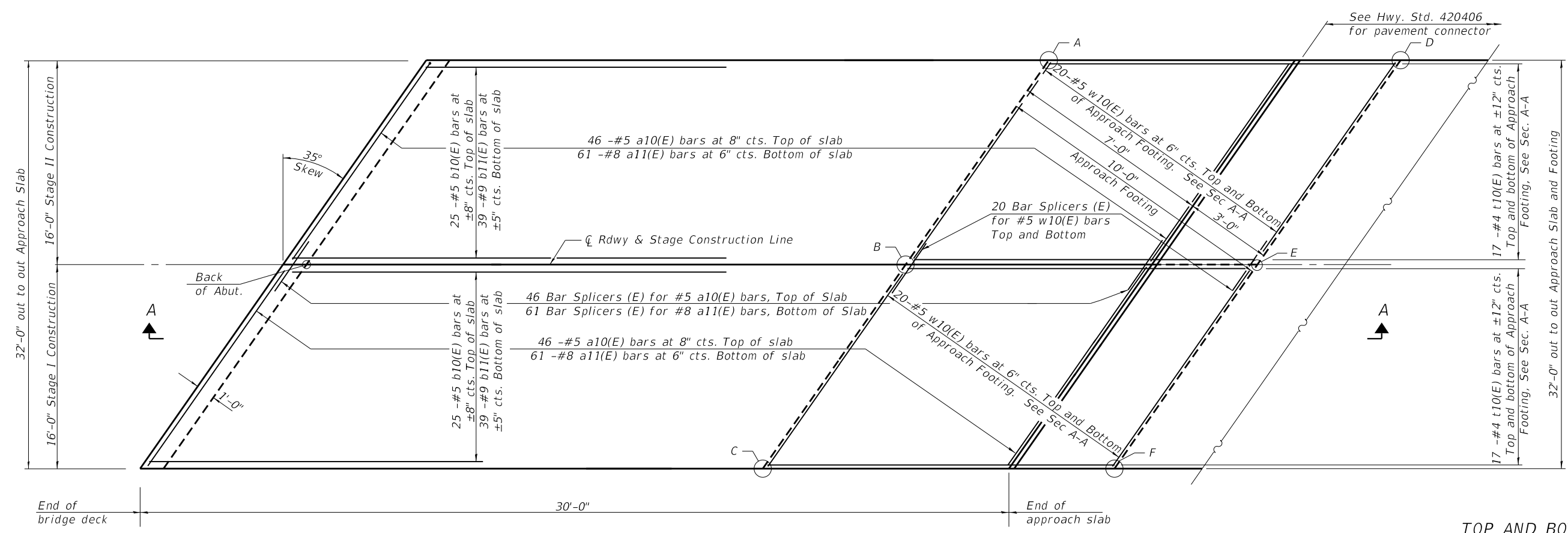
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 102-0042

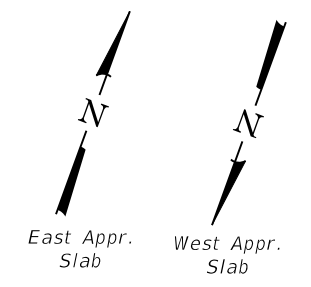
SHEET 7 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	27
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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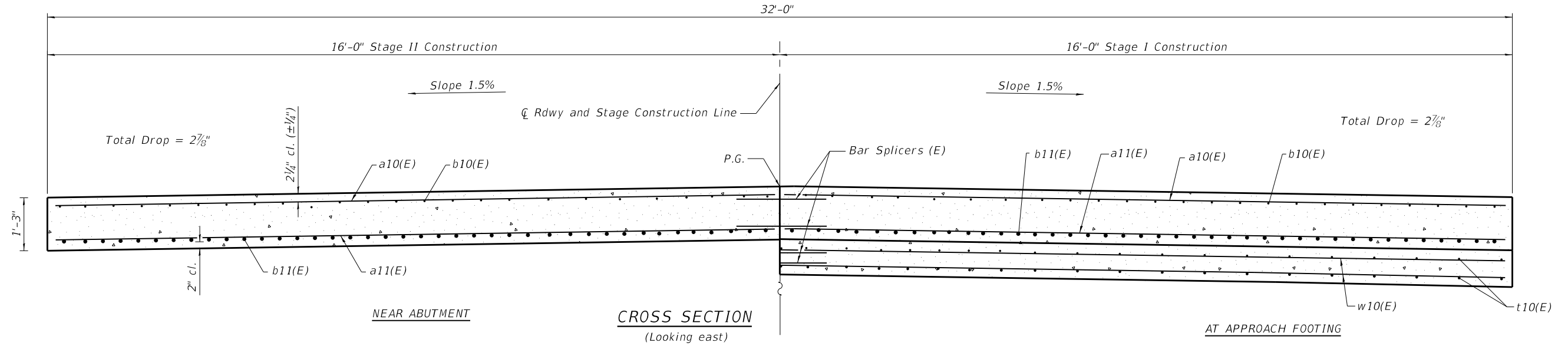


PLAN



TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Point	West Approach		East Approach	
	Top	Bottom	Top	Bottom
A	718.88	718.05	718.94	718.11
B	719.15	718.32	719.22	718.38
C	718.94	718.11	719.00	718.16
D	718.84	718.01	718.91	718.07
E	719.12	718.28	719.18	718.35
F	718.91	718.08	718.97	718.14



CROSS SECTION (Looking east)



USER NAME =	DESIGNED - DDB	REVISED -
CHECKED - PMH	REVISOR -	
PLOT SCALE =	DRAWN - SI	REVISED -
PLOT DATE =	CHECKED - DDB	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

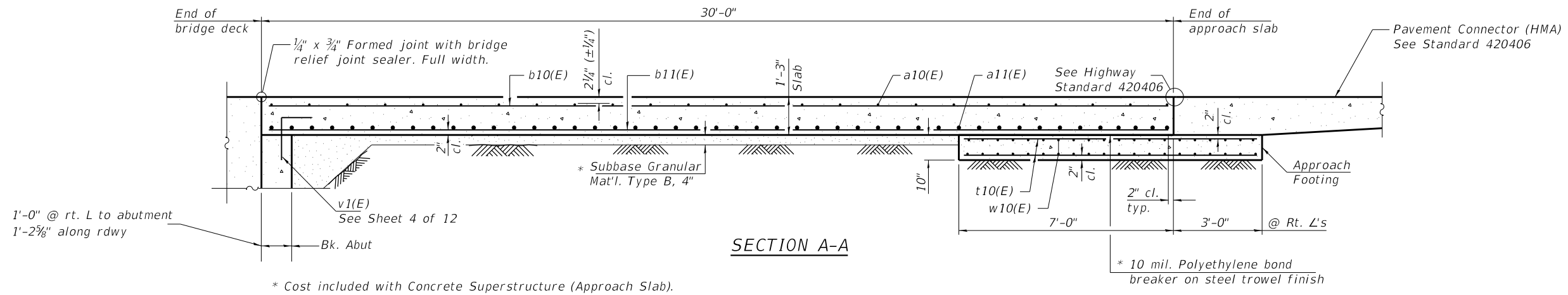
BRIDGE APPROACH SLAB DETAILS 1
 STRUCTURE NO. 102-0042

SHEET 8 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	28
CONTRACT NO. 68805				

ILLINOIS FED. AID PROJECT

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**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	184	#5	19'-2"	—————
a11(E)	244	#8	19'-2"	—————
b10(E)	100	#5	29'-8"	—————
b11(E)	156	#9	29'-8"	—————
t10(E)	136	#4	11'-10"	—————
w10(E)	160	#5	19'-2"	—————
Concrete Superstructure (Approach Slab)	Cu. Yd.	88.9		
Concrete Structures	Cu. Yd.	24.1		
Reinforcement Bars, Epoxy Coated	Pound	39,280		
Bridge Deck Grooving	Sq. Yd.	200		
Protective Coat	Sq. Yd.	214		

Notes:
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 Spacing of a10(E) and a11(E) bars shall be measured along the \bar{c} at the structure.



USER NAME = ----	DESIGNED - DDB	REVISED -
PLOT SCALE = ----	CHECKED - PMH	REVISED -
PLOT DATE = ----	DRAWN - SI	REVISED -
	CHECKED - DDB	REVISED -

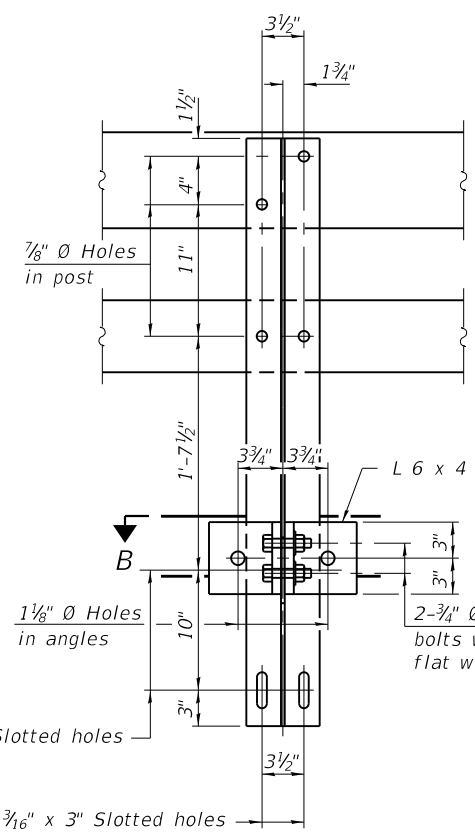
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS 2
 STRUCTURE NO. 102-0042

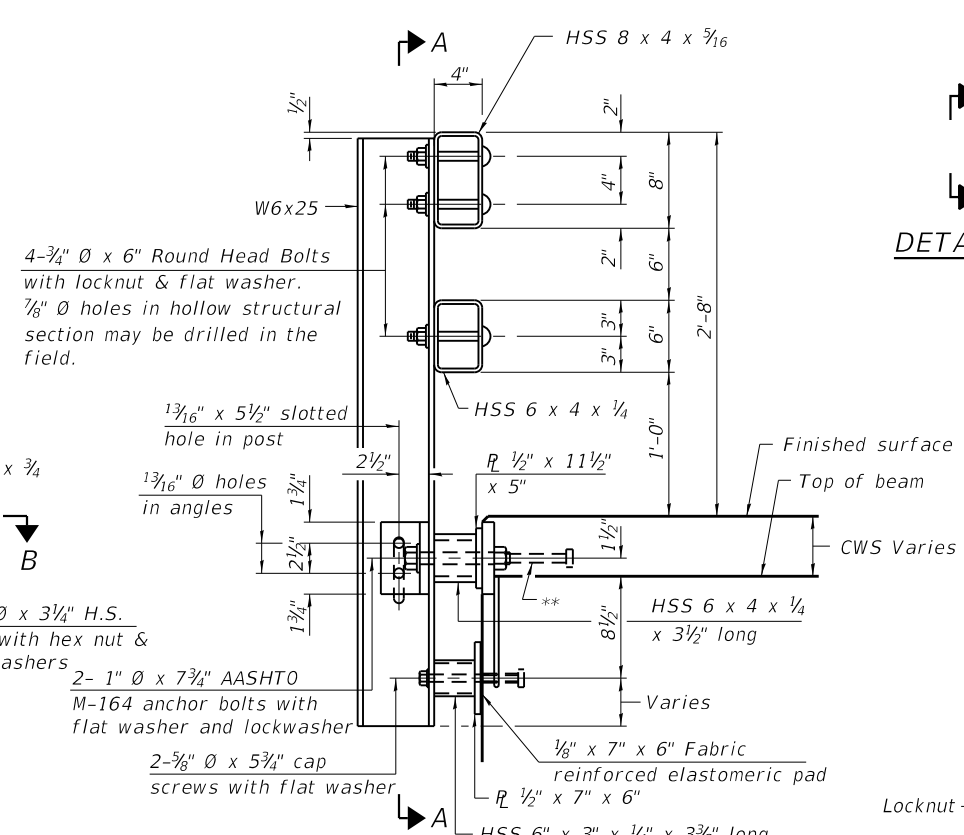
SHEET 9 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	29
CONTRACT NO. 68805				
ILLINOIS		FED. AID PROJECT		

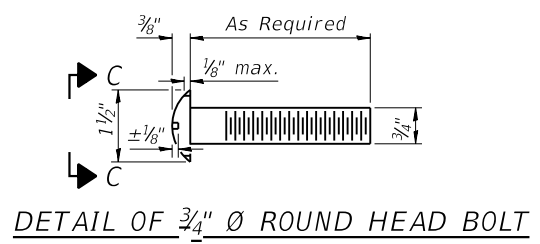
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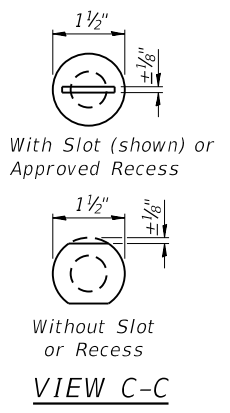
SECTION A-A



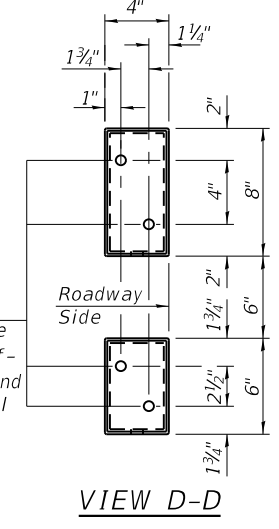
SECTION AT RAIL POST



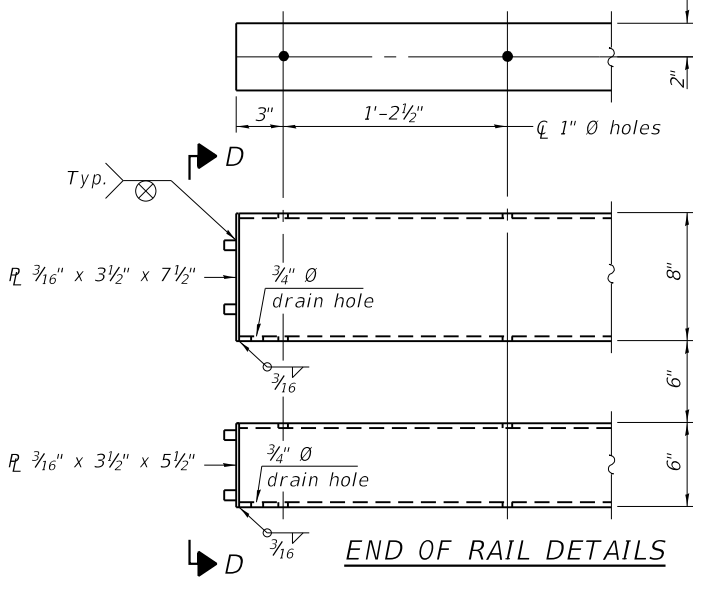
DETAIL OF 3/4" Ø ROUND HEAD BOLT



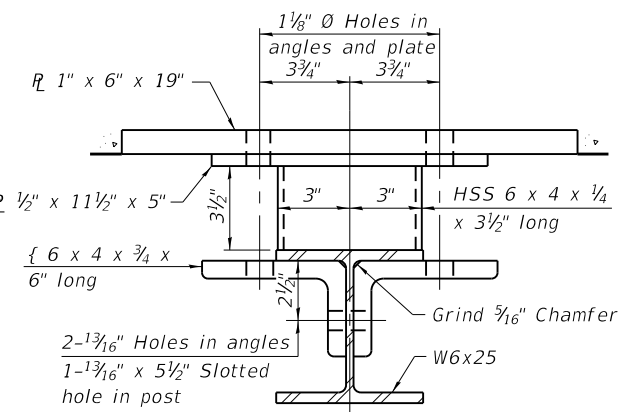
VIEW C-C



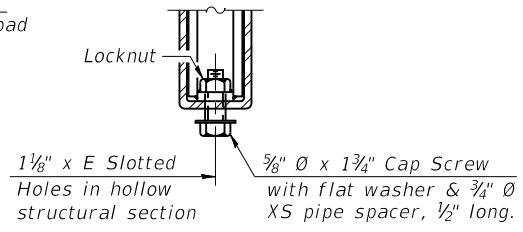
VIEW D-D



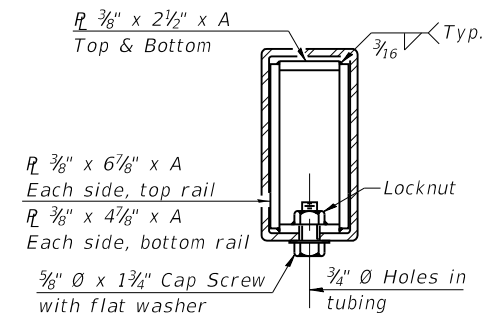
END OF RAIL DETAILS



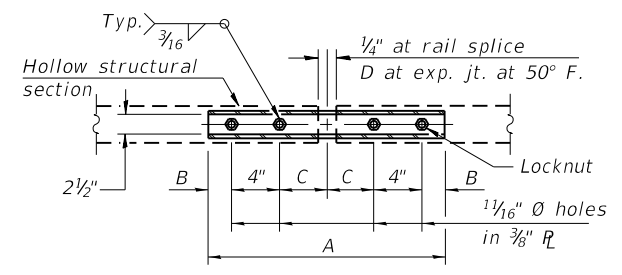
SECTION B-B



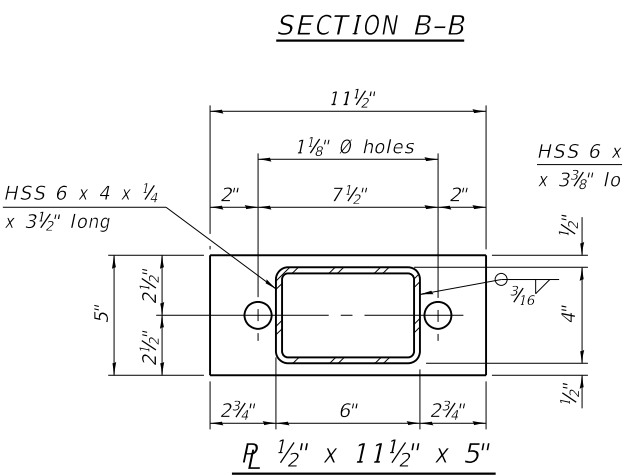
RAIL SPLICE CONNECTION AT EXPANSION JT.



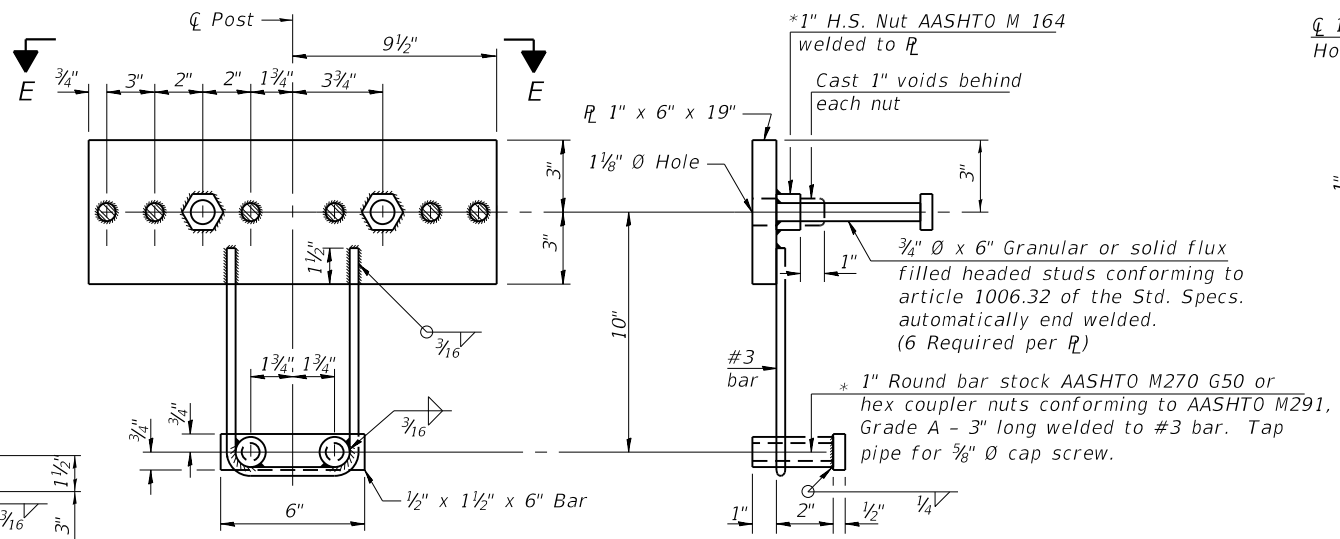
SECTION AT RAIL SPLICE



PLAN-BOTT. SPLICE R TYPICAL



SECTION B-B



ANCHOR DEVICE

SPLICE DIMENSIONS

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

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

Notes:
 For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
 Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
 ** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	138

R-34CWS 8-11-2017 (6'-3" Maximum Post Spacing) (5" minimum to 7 1/8" maximum CWS thickness)



USER NAME	DESIGNED	REVISIONS
---	DDB	-
---	PMH	-
---	SI	-
---	DDB	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE SM WITH CONCRETE WEARING SURFACE STRUCTURE NO. 102-0042

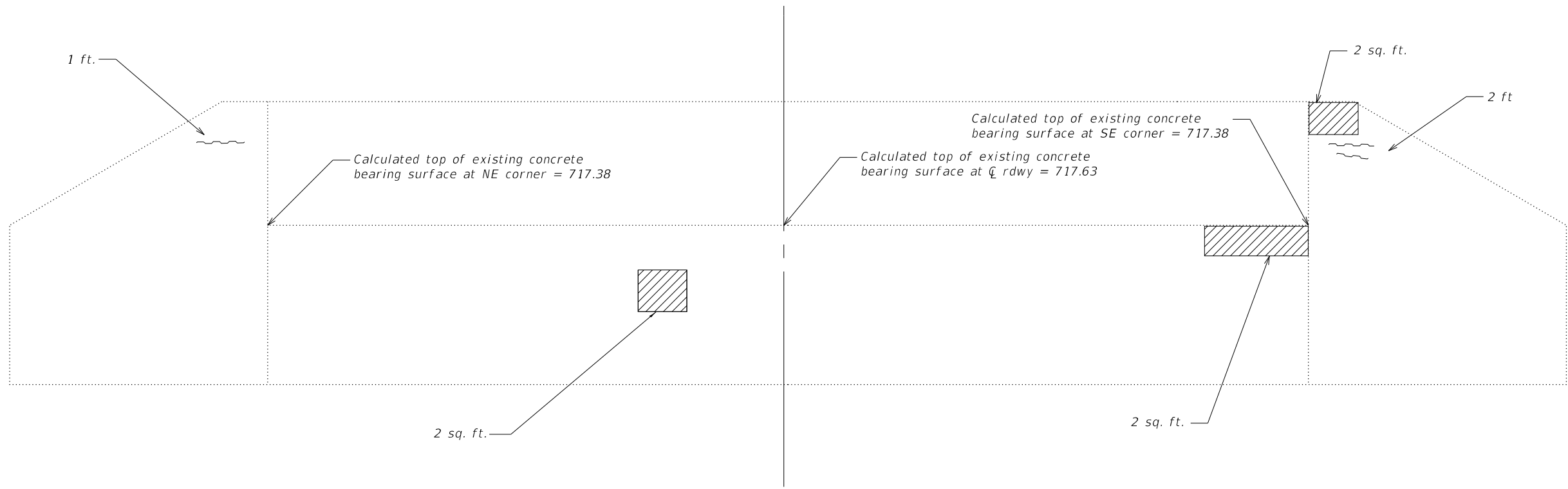
SHEET 10 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	30

CONTRACT NO. 68805

ILLINOIS FED. AID PROJECT

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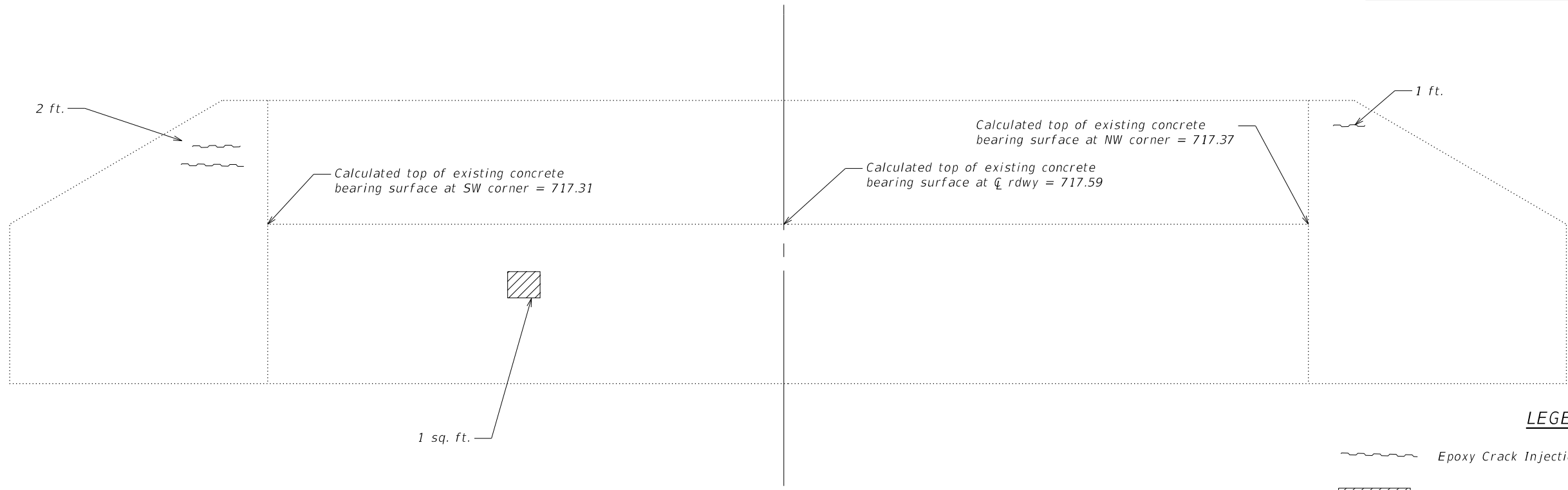


EAST ABUTMENT ELEVATION
 looking east

NOTE:
 Calculated top of existing concrete bearing surfaces shown are from survey shots of low concrete. Contractor shall verify elevations after removal of existing beams and make any necessary approved adjustments in elevations shown on bridge and roadway plans.

BILL OF MATERIAL

Item	Unit	Quantity
Epoxy Crack Injection	Foot	6
Structural Repair of Concrete (Depth Equal to or less Than 5 Inches)	Sq. Ft.	7



WEST ABUTMENT ELEVATION
 looking west

LEGEND

- Epoxy Crack Injection
- Structural Repair of Concrete (Depth Equal to or less Than 5 Inches)

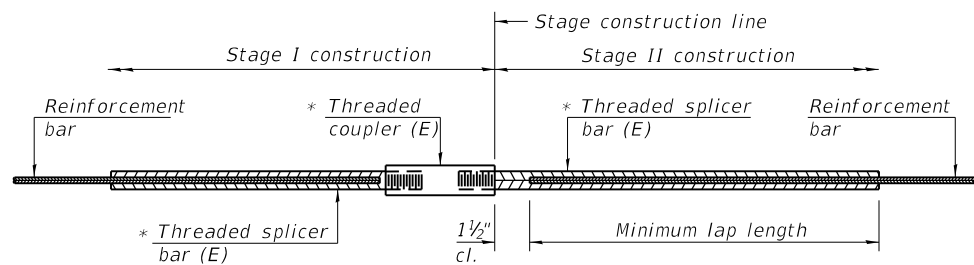
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	CHECKED - PMH	REVISED -
PLOT SCALE = ----	DRAWN - SI	REVISED -
PLOT DATE = ----	CHECKED - DDB	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ABUTMENT REPAIRS
 STRUCTURE NO. 102-0042**

SHEET 11 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	31
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				

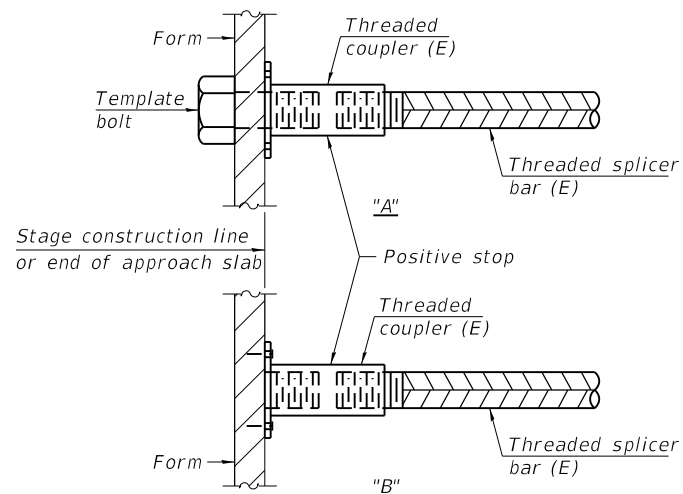


STANDARD BAR SPLICER ASSEMBLY

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

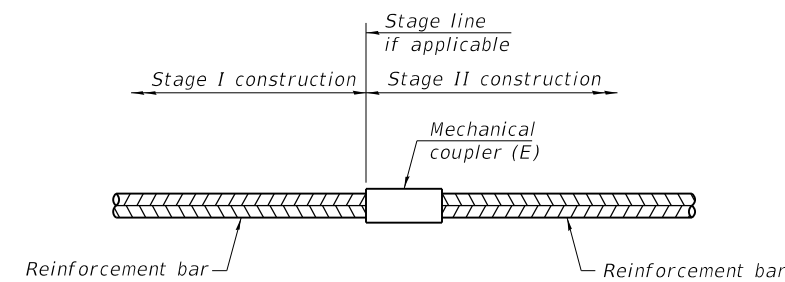
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
CWS	#4	69	2'-2"
Backwall	#5	6	3'-4"
Approach Slab	#5	92	3'-0"
Approach Slab	#8	122	4'-9"
Approach Footing	#5	80	3'-2"



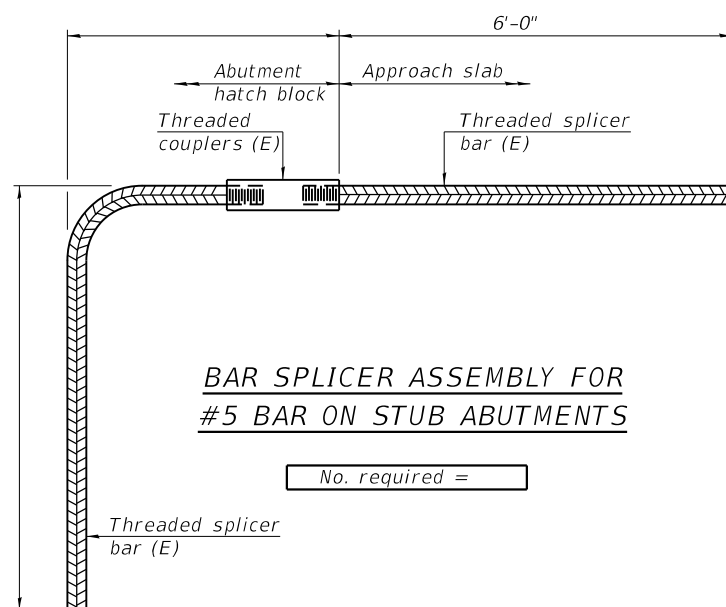
INSTALLATION AND SETTING METHODS

"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.

MODEL: Default
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BSD-1

2-17-2017



USER NAME = ----	DESIGNED - DDB	REVISED -
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	CHECKED - DDB	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

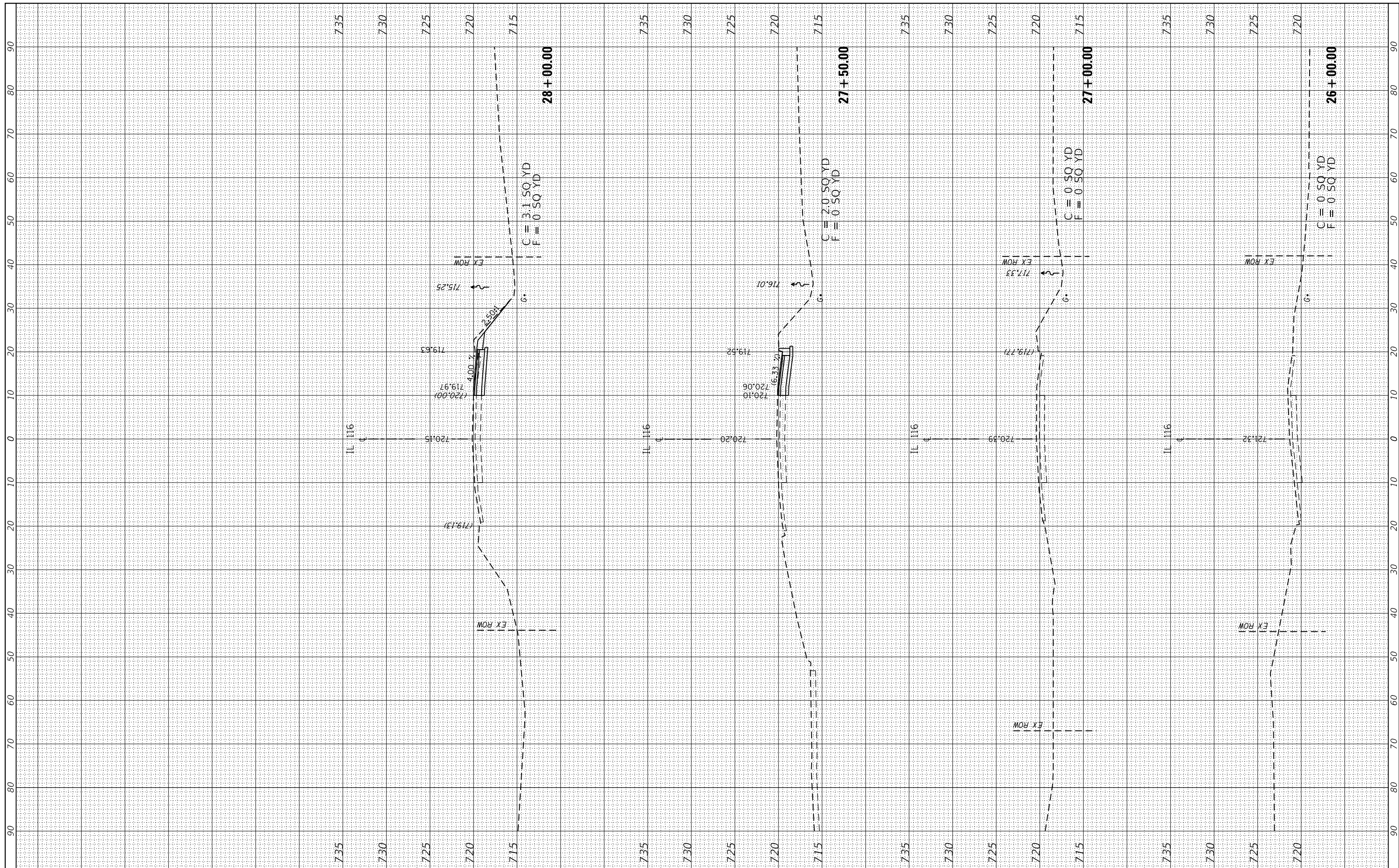
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 102-0042

SHEET 12 OF 12 SHEETS

F.A.P. RTE. 673	SECTION (108-BR)BRR	COUNTY WOODFORD	TOTAL SHEETS 51	SHEET NO. 32
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				

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

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



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 PLOT DATE = 12/13/2019

DESIGNED - BCB
 DRAWN - BCB
 CHECKED - DPA
 DATE - 6/8/2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

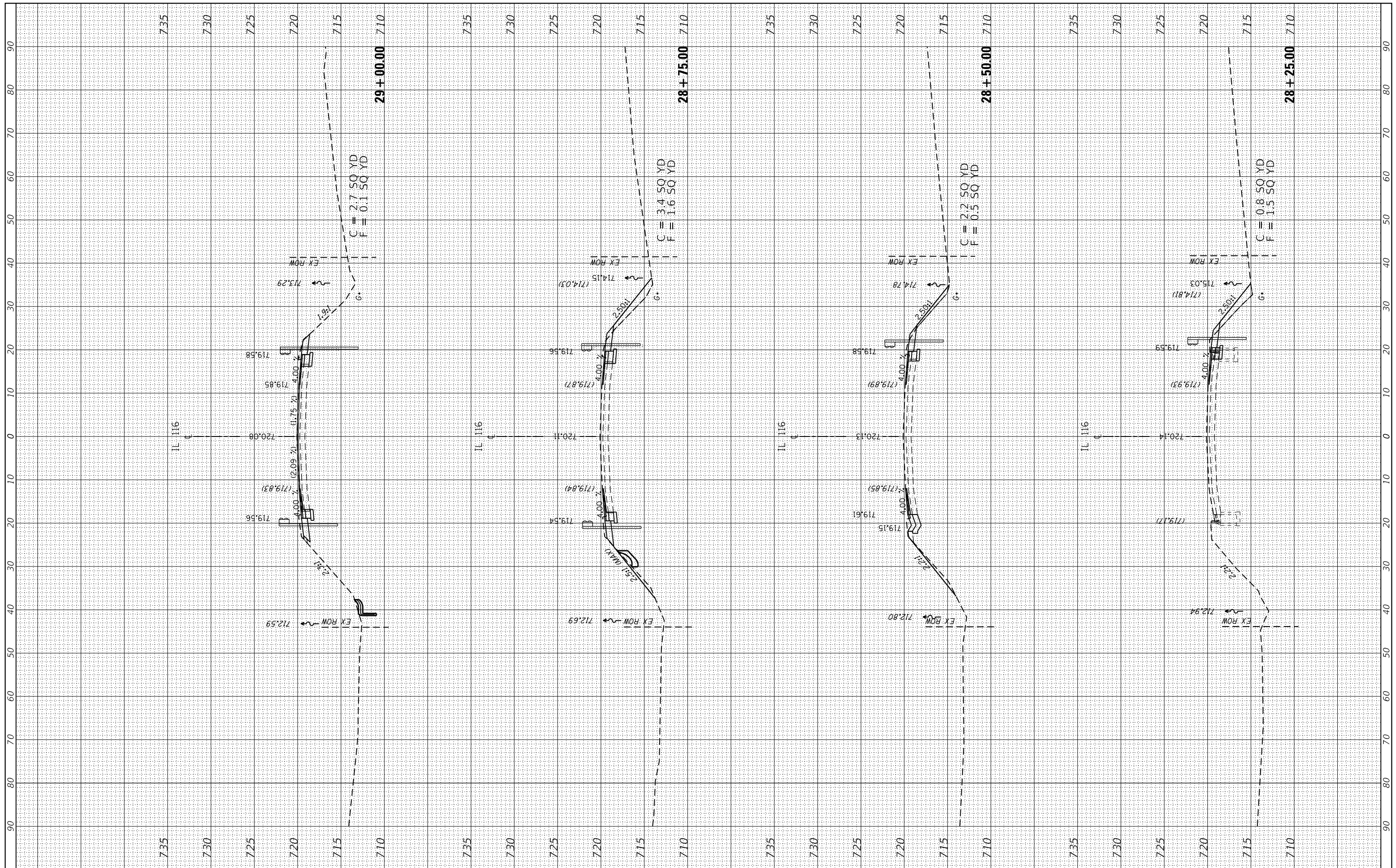
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL 116 OVER WEST BRANCH OF PANTHER CREEK
 CROSS SECTIONS**
 SCALE: *SCALE* SHEET 1 OF 6 SHEETS STA. 26+00.00 TO STA. 28+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	33
CONTRACT NO. 68805				

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
NO.	



FILE NAME = D468805-shr-033-038-xssht_IL116.dgn

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CHECKED - DPA

DATE - 6/8/2018

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PLOT DATE = 12/13/2019

REVISED -

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

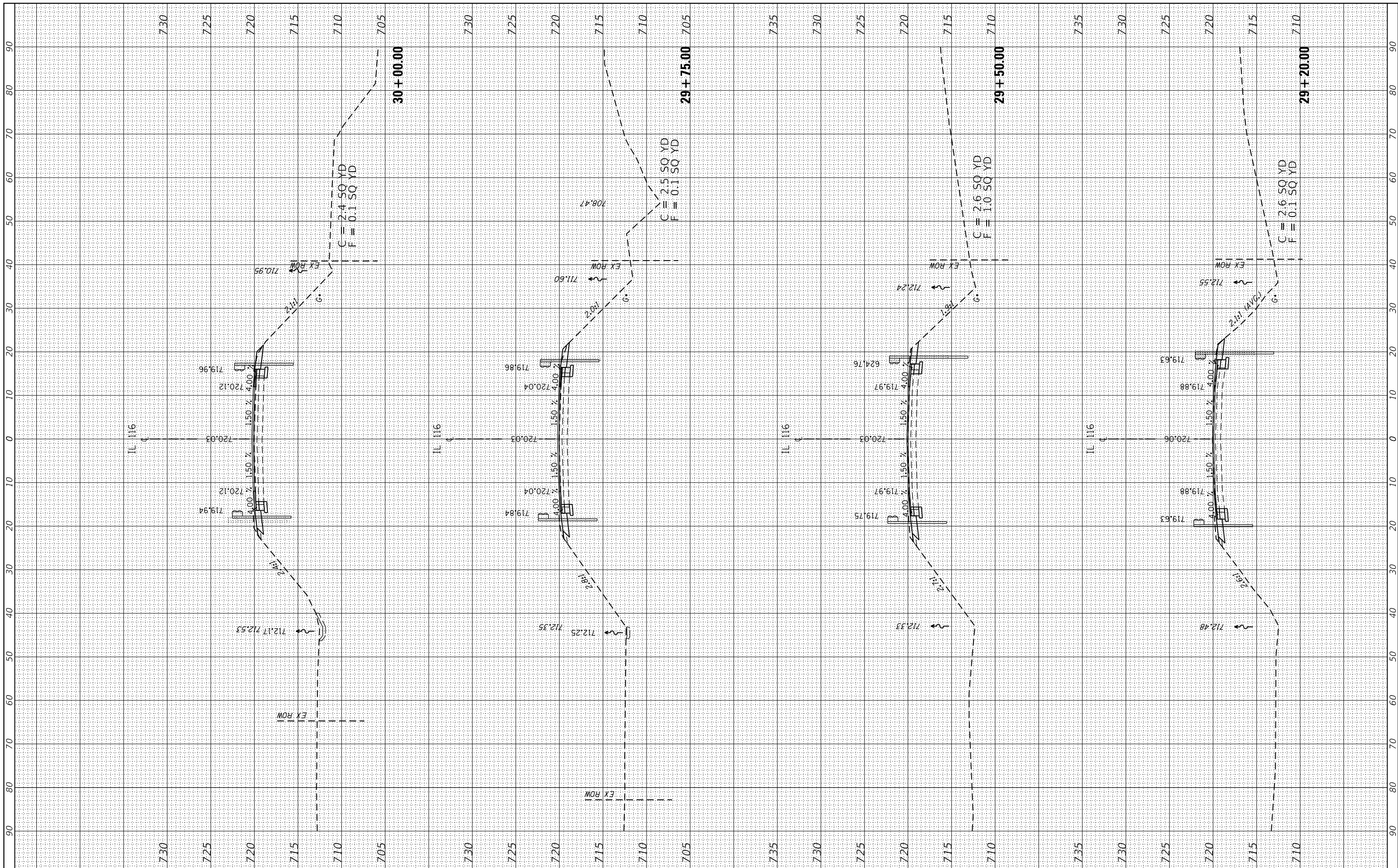
IL 116 OVER WEST BRANCH OF PANTHER CREEK
CROSS SECTIONS

SCALE: *SCALE* SHEET 2 OF 6 SHEETS STA. 28+25.00 TO STA. 29+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BR	WOODFORD	51	34
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME = D468805-sh1-033-038-xssht_IL116.dgn
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 PLOT SCALE = 1:20
 PLOT DATE = 12/13/2019

DESIGNED -	BCB	REVISED -	-
DRAWN -	BCB	REVISED -	-
CHECKED -	DPA	REVISED -	-
DATE -	6/8/2018	REVISED -	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

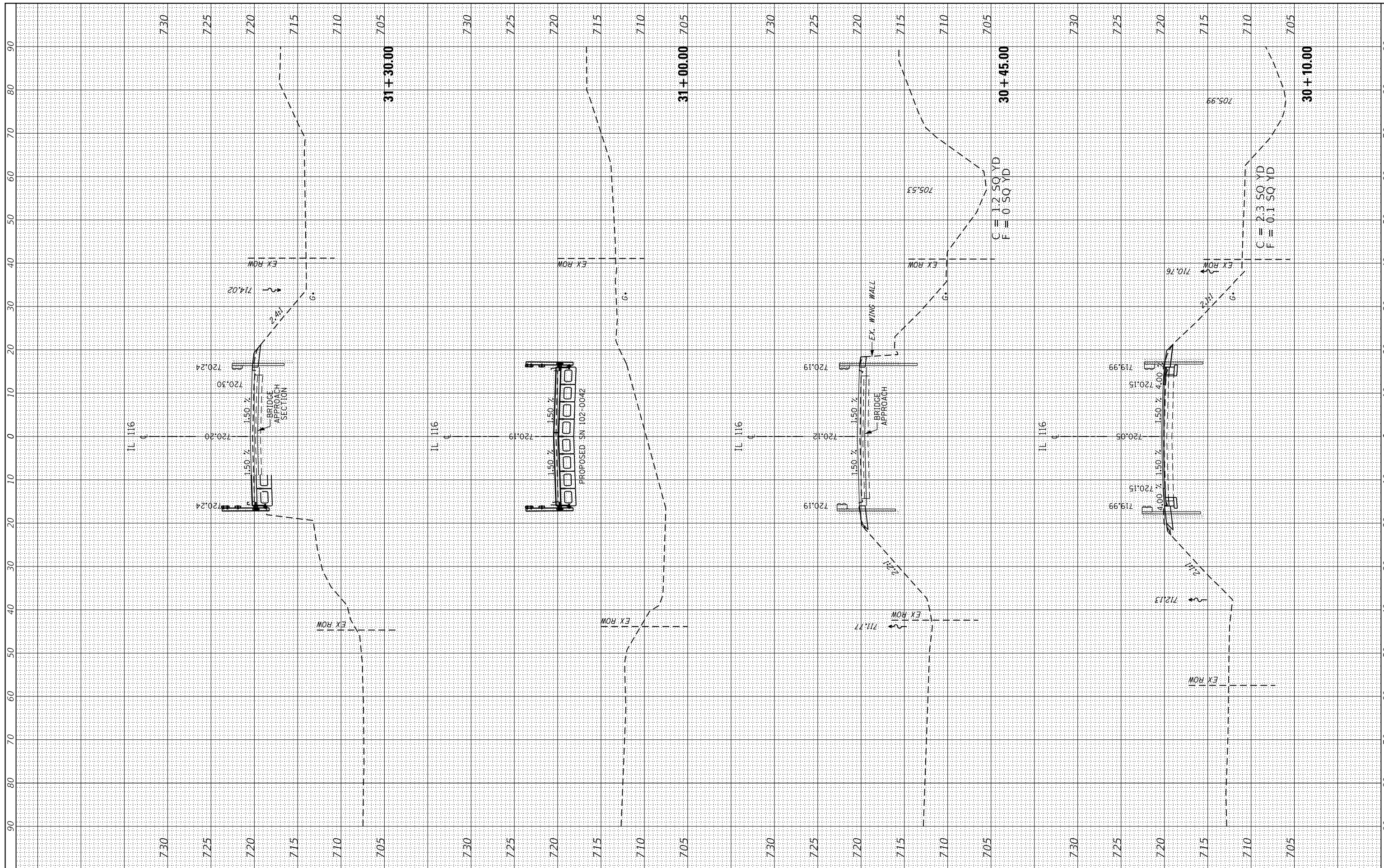
**IL 116 OVER WEST BRANCH OF PANTHER CREEK
 CROSS SECTIONS**

SCALE: *SCALE* SHEET 3 OF 6 SHEETS STA. 29+20.00 TO STA. 30+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	35
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE
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ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE
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USER NAME = *USER*

DESIGNED - BCB
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 CHECKED - DPA
 DATE - 6/8/2018

PLOT SCALE = 1:20
 PLOT DATE = 12/13/2019

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL 116 OVER WEST BRANCH OF PANTHER CREEK
 CROSS SECTIONS**

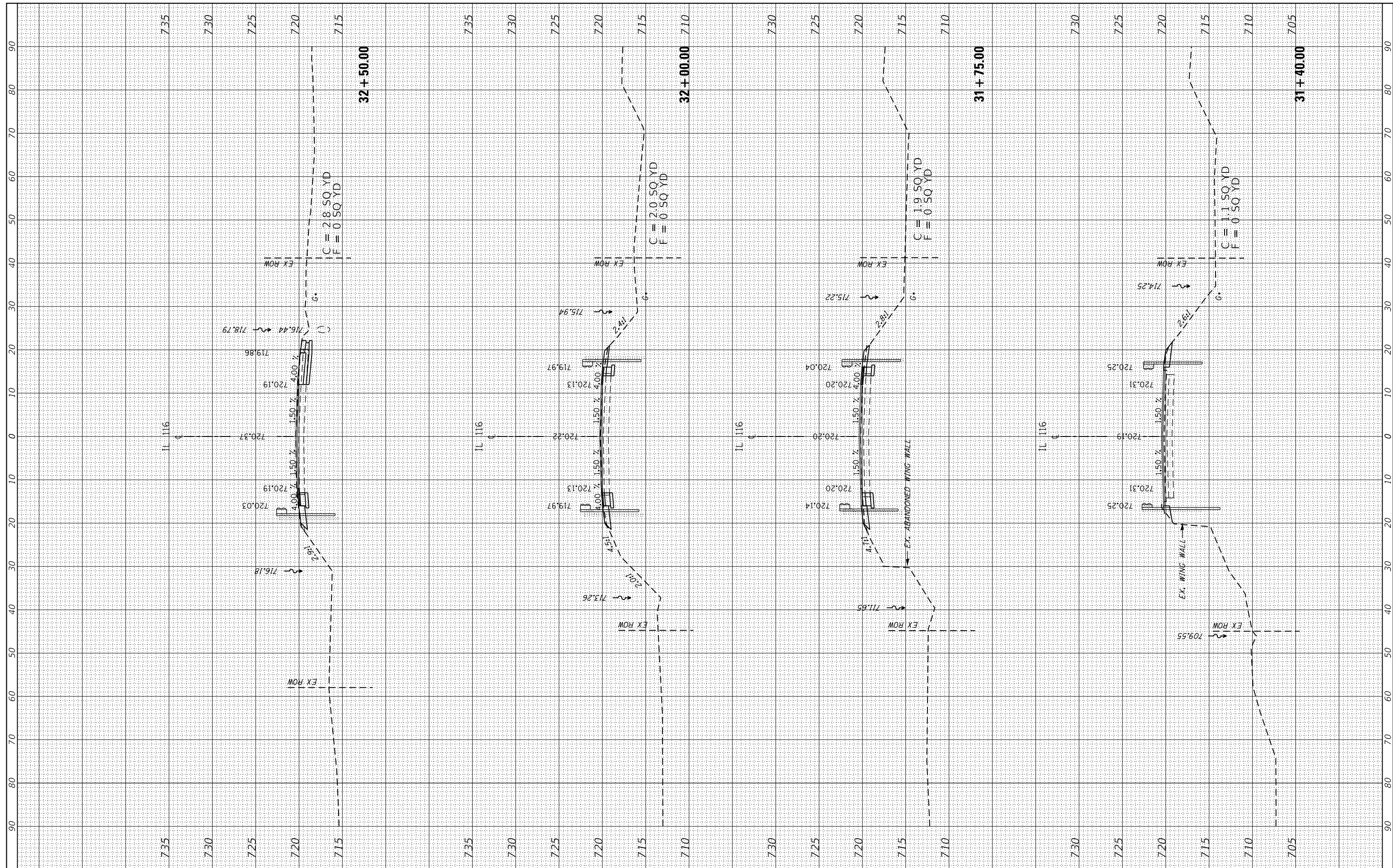
SCALE: *SCALE* SHEET 4 OF 6 SHEETS STA. 30+10.00 TO STA. 31+30.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BR	WOODFORD	51	36
CONTRACT NO. 68805				

ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME = D468805-sh1-033-038-xssht_IL116.dgn
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 PLOT SCALE = 1:20
 PLOT DATE = 12/13/2019

DESIGNED - BCB
 DRAWN - BCB
 CHECKED - DPA
 DATE - 6/8/2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

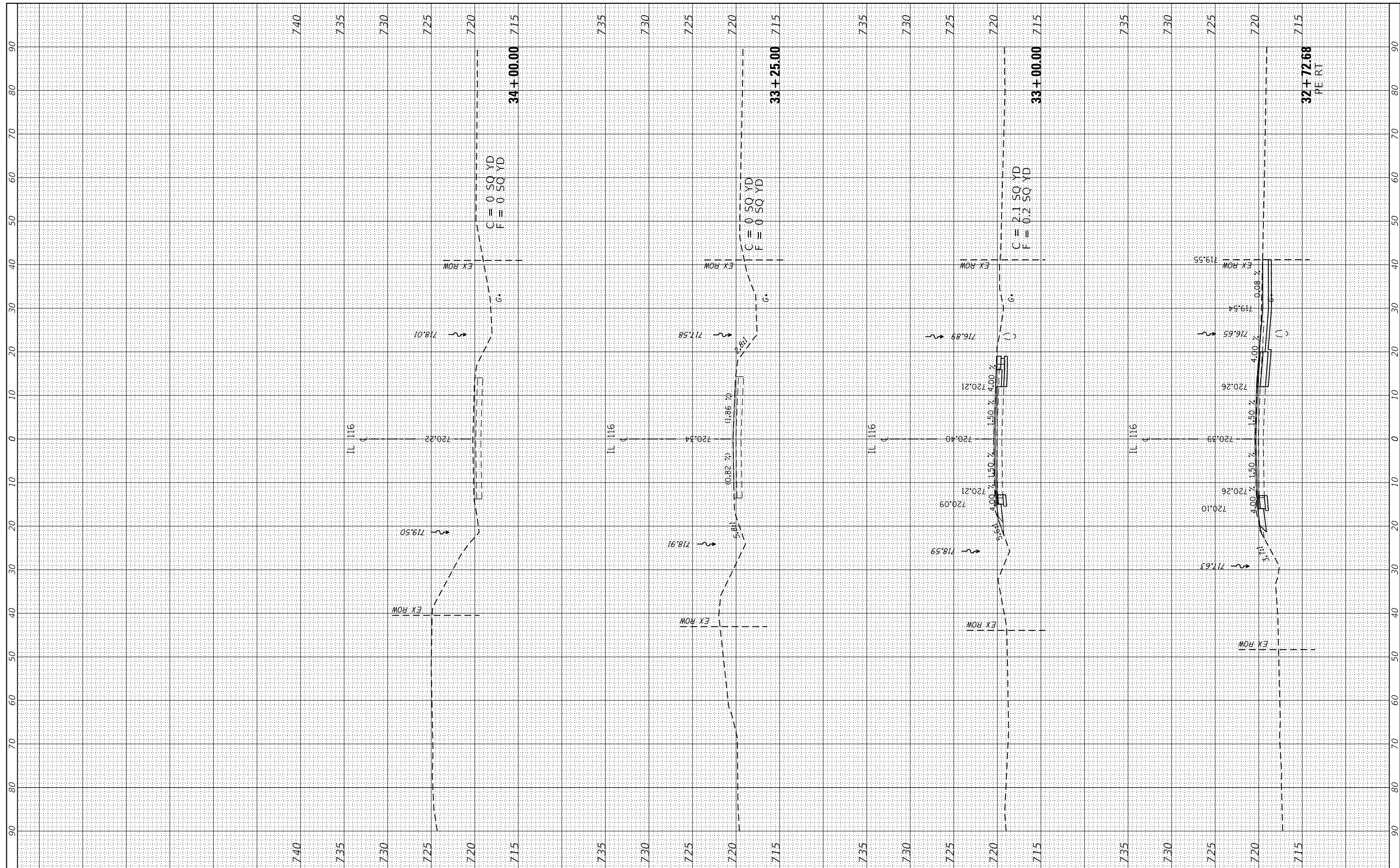
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL 116 OVER WEST BRANCH OF PANTHER CREEK
 CROSS SECTIONS**
 SCALE: *SCALE* SHEET 5 OF 6 SHEETS STA. 31+40.00 TO STA. 32+50.00

F.A.U. RTE. 673	SECTION (108-BR)BRR	COUNTY WOODFORD	TOTAL SHEETS 51	SHEET NO. 37
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME = D468805-sh1-033-038-xssht_IL116.dgn

USER NAME = *USER*

DESIGNED - BCB

DRAWN - BCB

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DATE - 6/8/2018

PLOT SCALE = 1:20

PLOT DATE = 12/13/2019

REVISED -

REVISED -

REVISED -

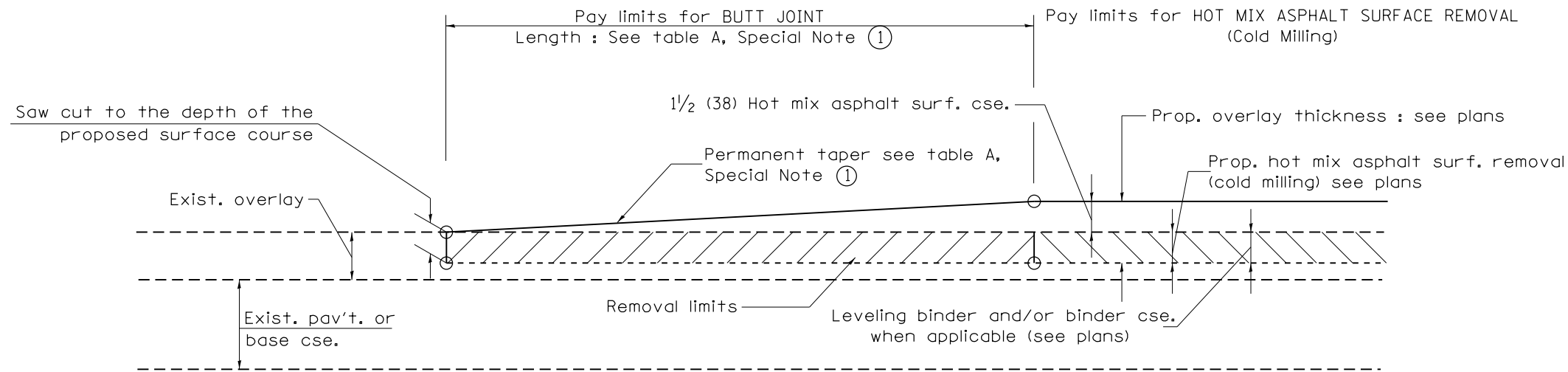
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 116 OVER WEST BRANCH OF PANTHER CREEK
CROSS SECTIONS

SCALE: *SCALE* SHEET 6 OF 6 SHEETS STA. 32+72.68 TO STA. 34+00.00

F.A.U. RTE. 673	SECTION (108-BR)BRR	COUNTY WOODFORD	TOTAL SHEETS 51	SHEET NO. 38
CONTRACT NO. 68805				
ILLINOIS FED. AID PROJECT				



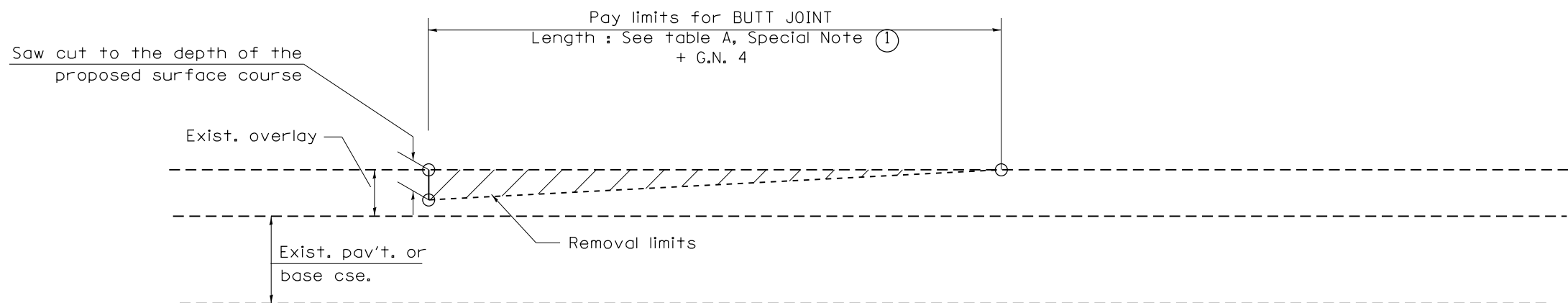
CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

**TABLE A
TAPER RATES**

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

GENERAL NOTES

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



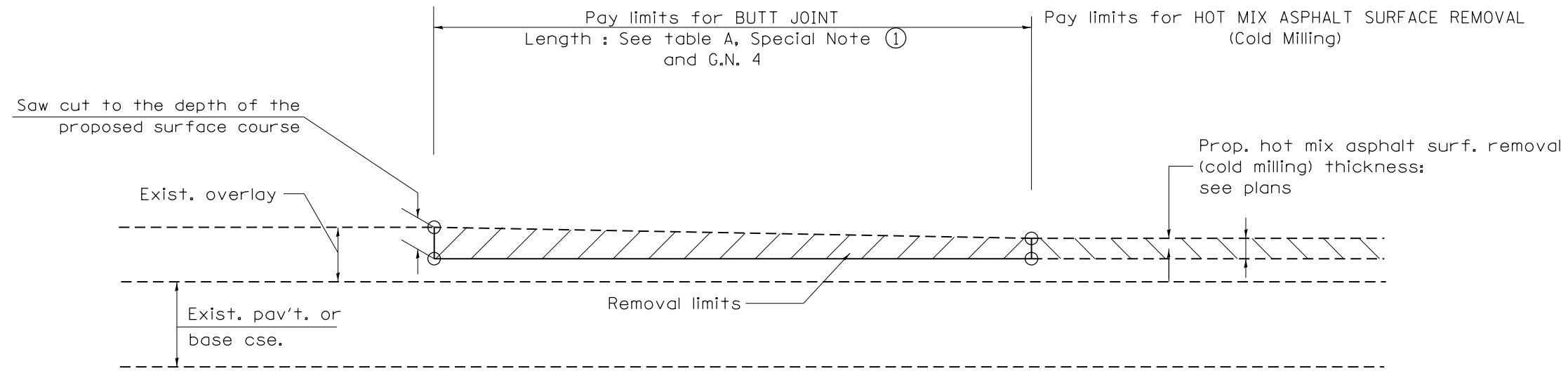
CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

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

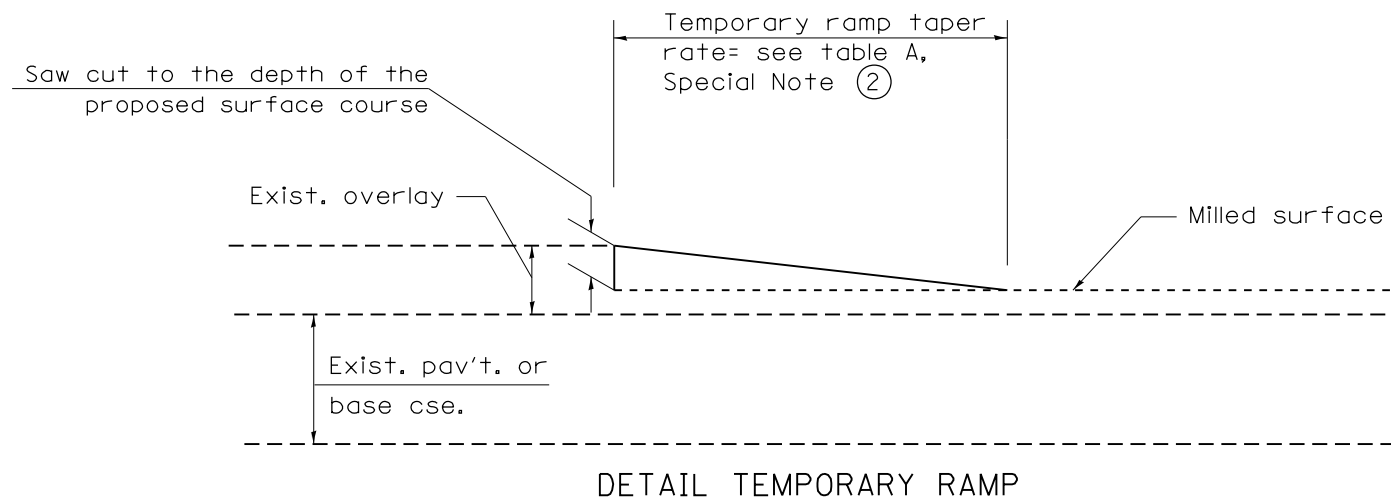
01-01-97	RENUM. C-23.01, NEW REVISION BOX	T.P.	08-21-13	MAJOR MODIFICATIONS	R.D.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINTS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
04-01-97	CORRECTION TO DEPTH	J.A.	02-29-16	MINOR CORRECTIONS	R.D.			673	(108-BR)BRR	WOODFORD	51	39
09-15-05	REVISED DESIGNER NOTE	M.M.A.	04-12-16	MINOR CORRECTIONS	R.D.			SHT. 1 OF 3 CADD STD. 406101-D4				
10-16-06	REVISED TO 2007 SPEC.	M.A.	02-14-17	ADDED NOTE 5	R.D.			CONTRACT NO. 68805				

NOT TO SCALE

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

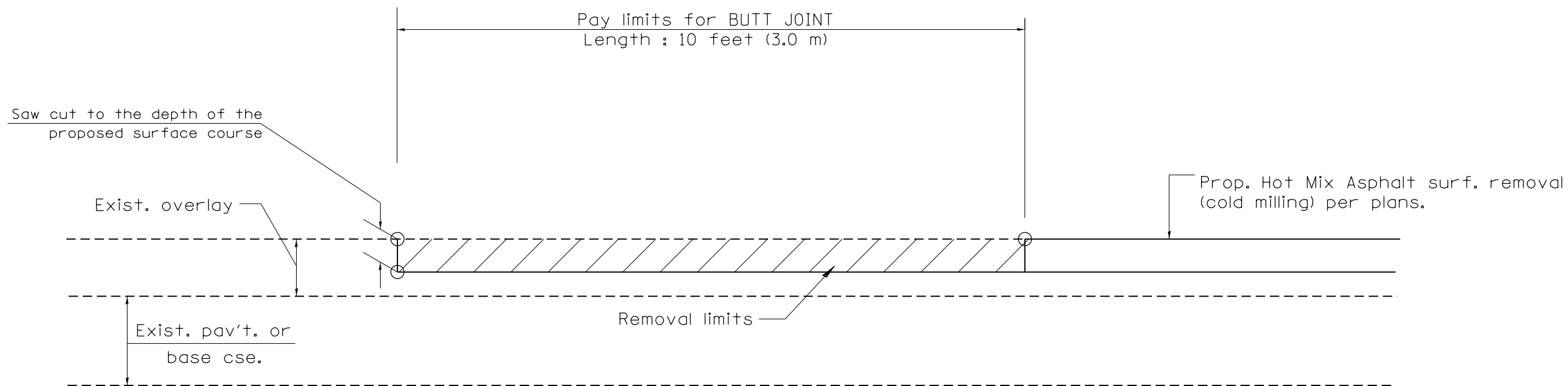


CASE 3 : HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER



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

				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		BUTT JOINTS		SHT. 2 OF 3 CADD STD. 406101-D4	
				NOT TO SCALE				CONTRACT NO. 68805	
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
673	(108-BR)BRR	WOODFORD	51	40					
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT							



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

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

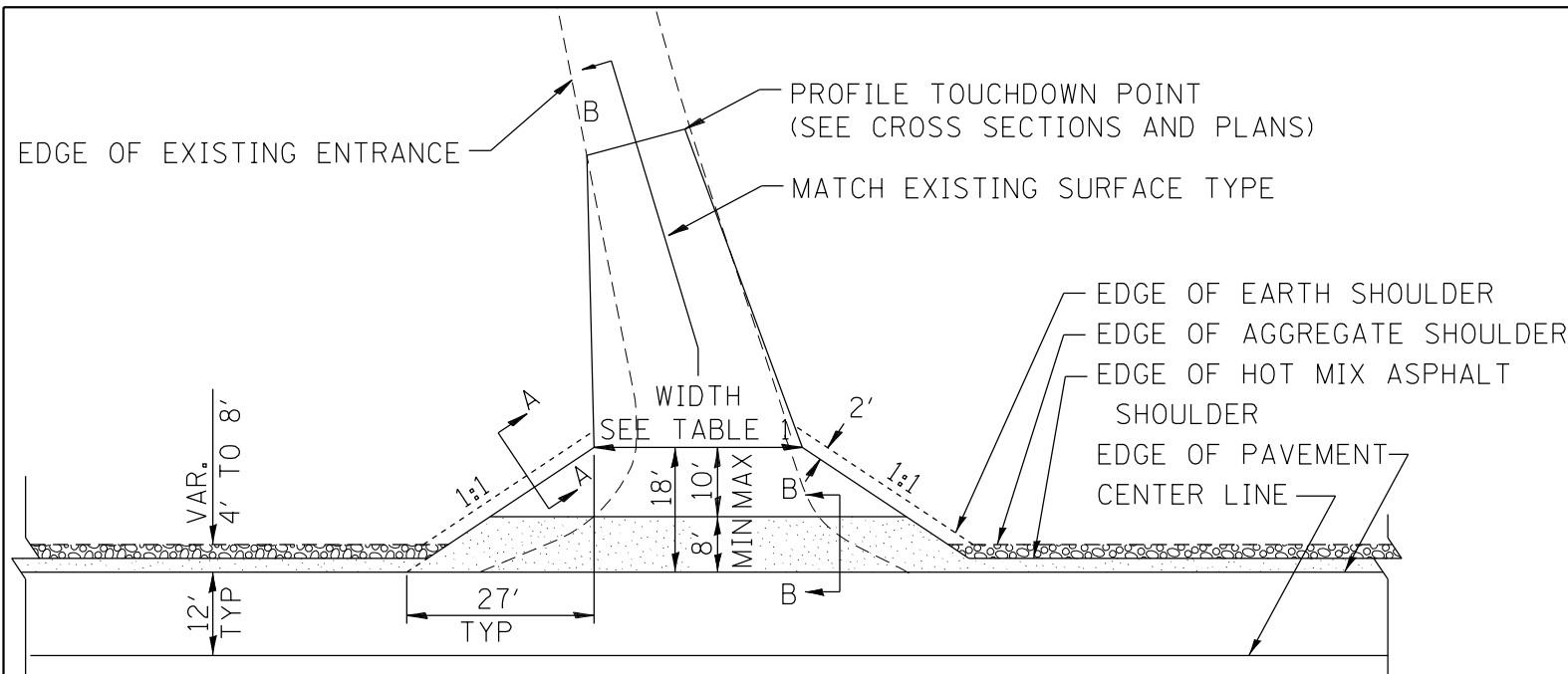
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINTS

NOT TO SCALE

SHT. 3 OF 3
CADD STD. 406101-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	41
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68805	



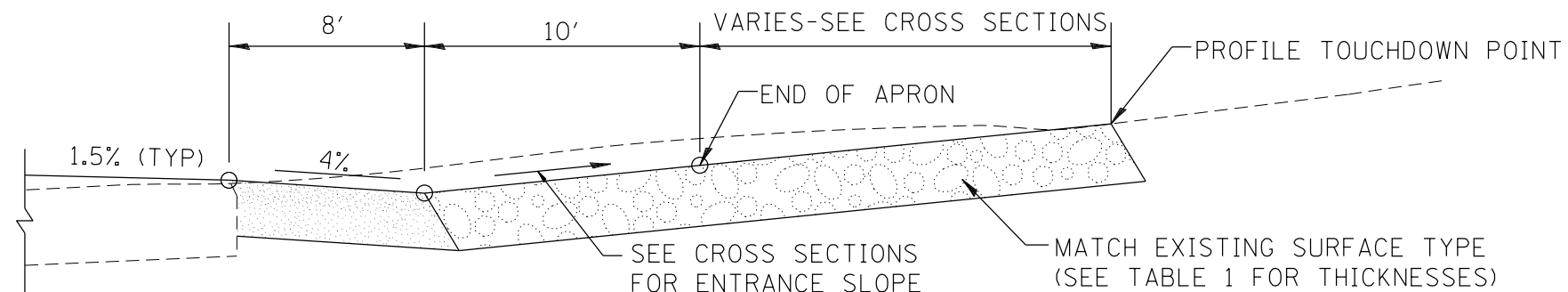
HOT MIX ASPHALT SHOULDER, 8"
 AGGREGATE SHOULDER, TYPE B, 6"

PLAN

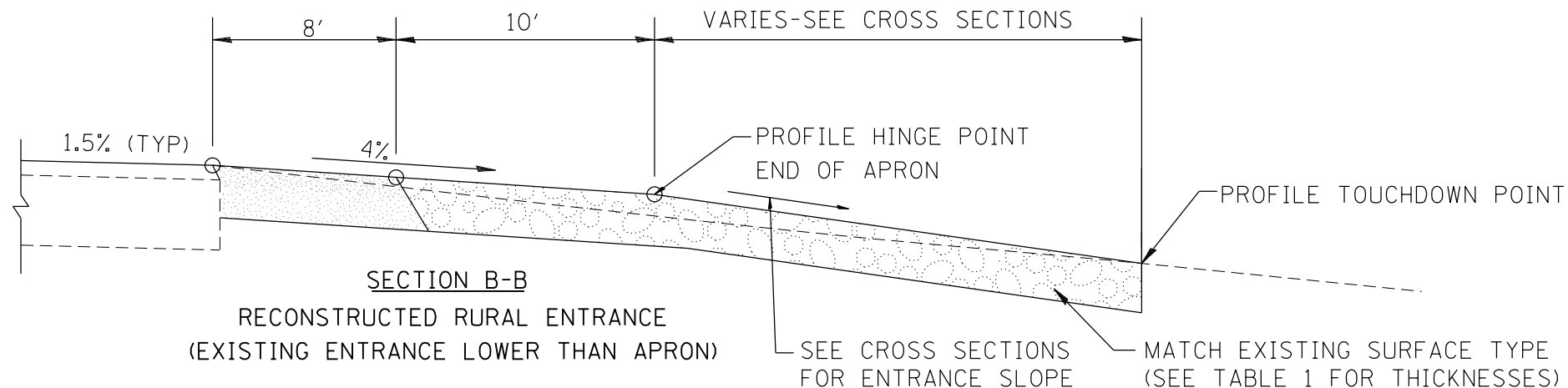
COMMERCIAL / FARM-RELATED ENTRANCE

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)Min.	30'(9.0m)Max.	
WIDTH (W)	12'(3.6m) Min.	24'(7.2m) Max.	20' (6.1m)Min.	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%

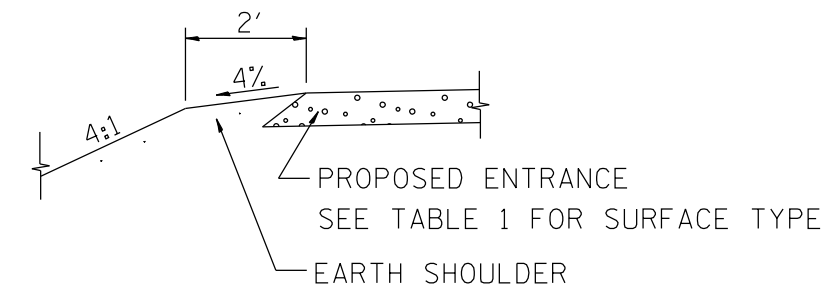
SURFACE TYPE			
INCIDENTAL HOT MIX ASPHALT SURFACING	6"	—	8"
AGGREGATE SURFACE COURSE	6"	8"	—
PCC DRIVEWAY PAVEMENT	6"	—	7"



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.

01-01-97	RENUM. C-103.06, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.
07-01-97	REVISE DESIGNER NOTES	J.A.	9-15-15	UPDATED TABLE 1	R.D.
01-17-03	ADJUST DESIGN, CHANGE ENTRANCE	JATR	2-29-16	MINOR CORRECTIONS	R.D.
09-15-05	RADIUS FOR FLARE	M.M.A.	5-9-17	CHANGED TAPER RATE	R.D.

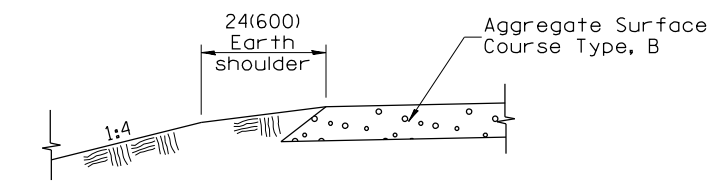
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RURAL ENTRANCES FOR "3R" PROJECTS

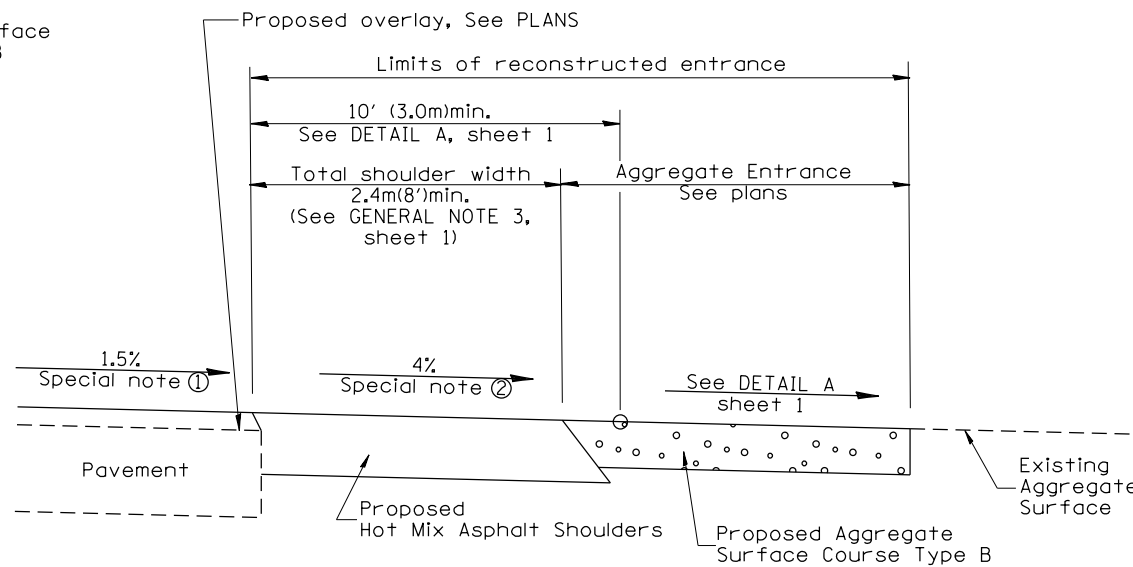
NOT TO SCALE

SHT. 1 OF 2
 CADD STD. 406301-D4

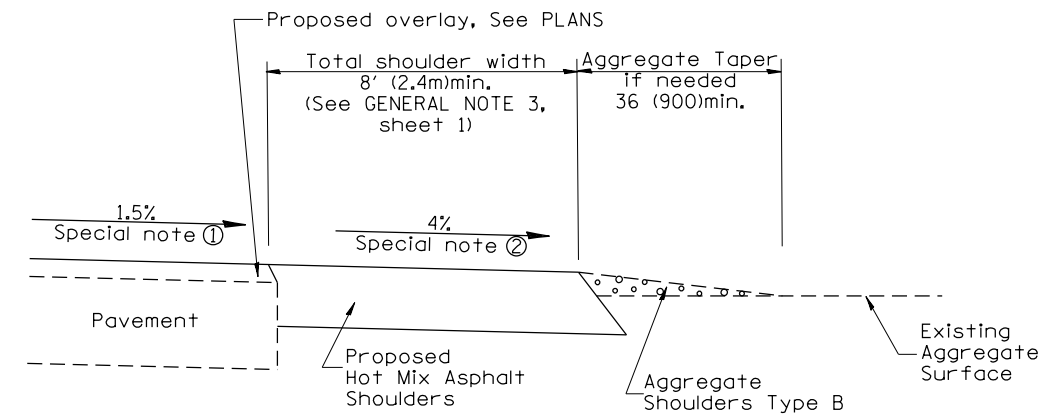
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	42
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68805	



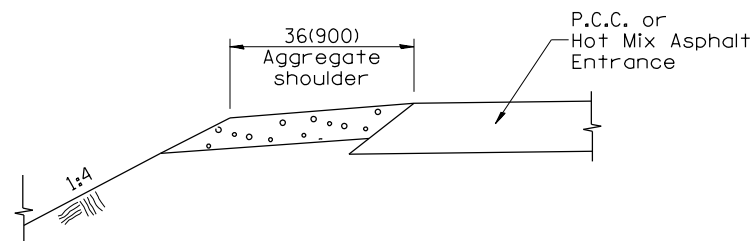
SECTION A-A
SHOULDER TREATMENT FOR AGGREGATE ENTRANCES



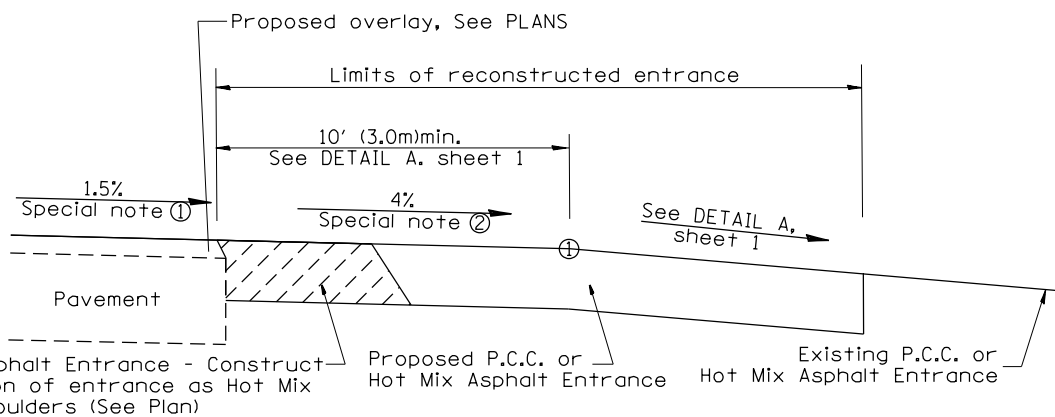
SECTION B-B
RECONSTRUCTED AGGREGATE ENTRANCE



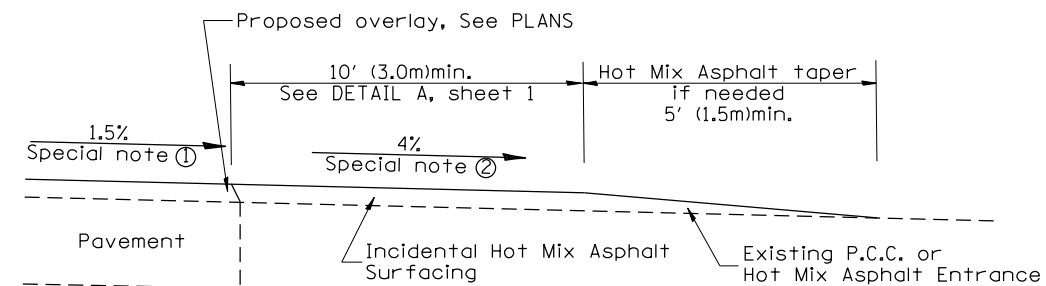
SECTION B-B
EXISTING AGGREGATE ENTRANCE



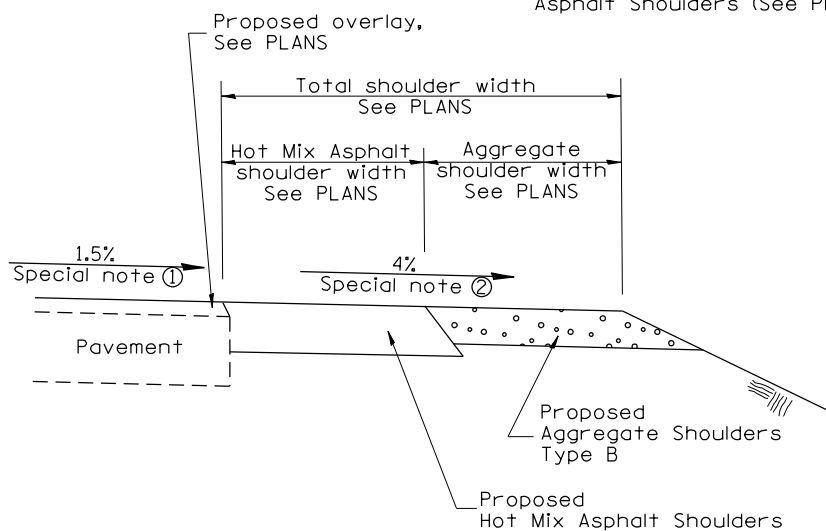
SECTION C-C
SHOULDER TREATMENT FOR P.C.C. OR HOT MIX ASPHALT ENTRANCES



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



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



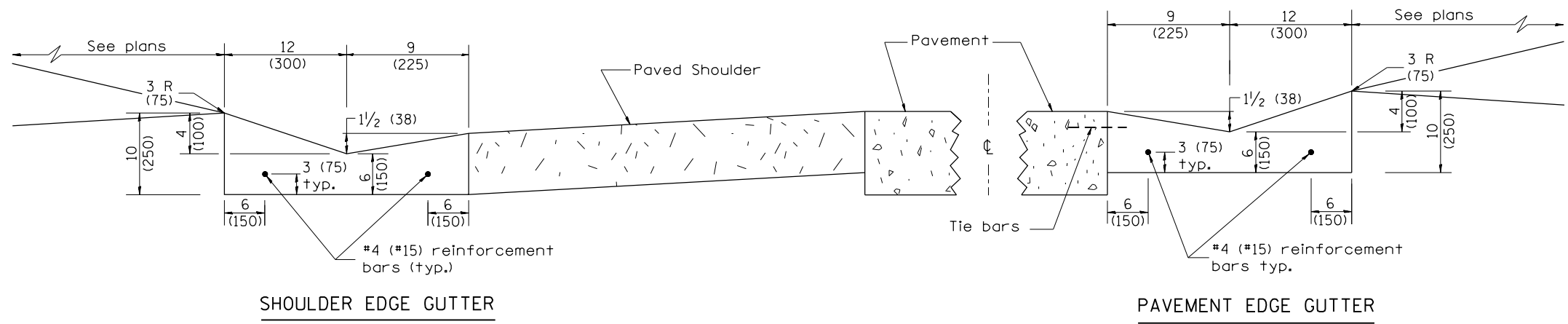
SECTION E-E
MAINLINE SHOULDER TREATMENT

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.

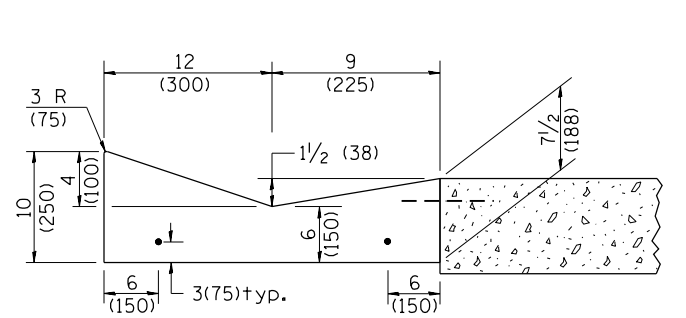
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				RURAL ENTRANCES FOR "3R" PROJECTS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				NOT TO SCALE				673	(108-BR)BRR	WOODFORD	51	43
				SHT. 2 OF 2 CADD STD. 406301-D4				CONTRACT NO. 68805				
								ILLINOIS FED. AID PROJECT				



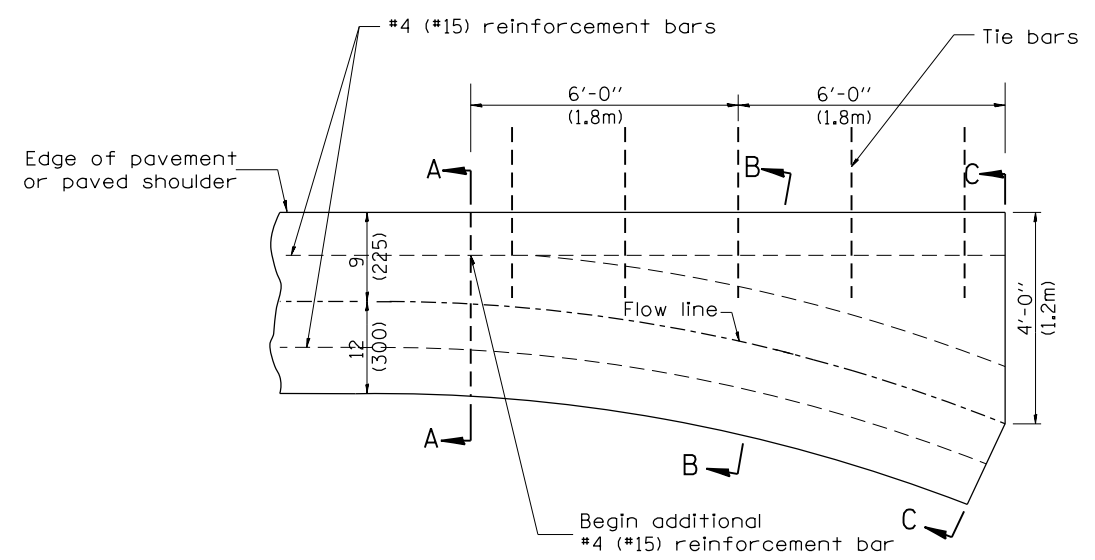
SHOULDER EDGE GUTTER

PAVEMENT EDGE GUTTER

CONCRETE GUTTER, TYPE B, (SPECIAL)

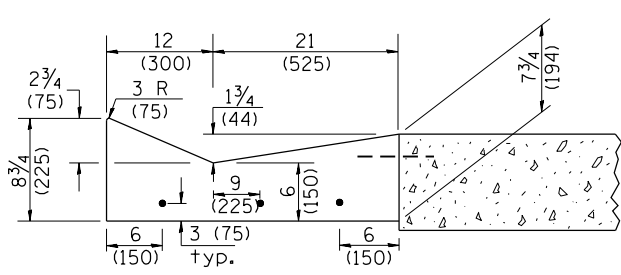


SECTION A-A

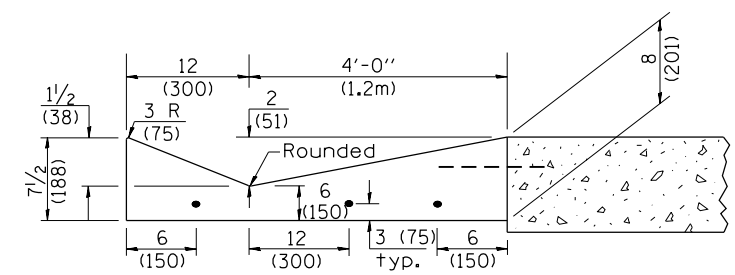


PLAN

QUANTITY
Section C-C to A-A=
0.73 cu. yd. concrete.



SECTION B-B



SECTION C-C

INLET

GENERAL NOTES:

1. CONCRETE GUTTER, TYPE B (SPECIAL) shall conform to the applicable portions of Section 606.
2. Tie bars shall be No. 6x24 (No. 19x600) at 36" (900mm) centers unless otherwise shown.
3. Gutter, gutter inlets, gutter outlets, and gutter entrances shall be tied to rigid pavement in accordance with details shown on Standard 420001.
4. Joints shall be constructed in accordance with Article 606.06.
5. Welded wire fabric shall conform to Article 1006.10(c)(1), and shall not be less than 58 lbs/100 sq.ft. (2.83 kg/m²).

QUANTITIES
CALC. BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____

QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

01-01-97	RENUM. A-1.01, NEW REVISION BOX, ELIMINATED	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.
	EXPANSION ANCHOR TIES		11-16-07	REVISED QUANTITY	M.A.
03-06-98	CORRECT DIMENSIONING	J.A.	02-15-11	CHANGED MODIFIED TO SPECIAL	R.D.
03-10-06	REVISED QUANTITY	M.A.	01-31-18	REVISED TIE BAR SIZE & SPACING	R.D.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

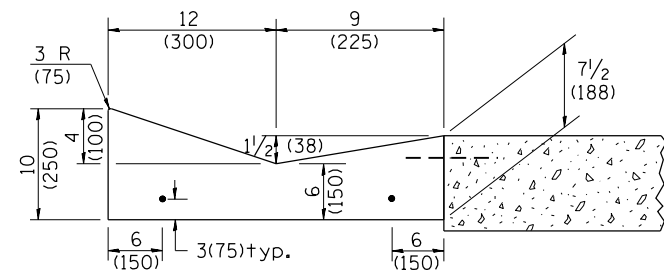
**CONCRETE GUTTER, TYPE B, (SPECIAL)
(INLET, OUTLET & ENTRANCE)**

NOT TO SCALE

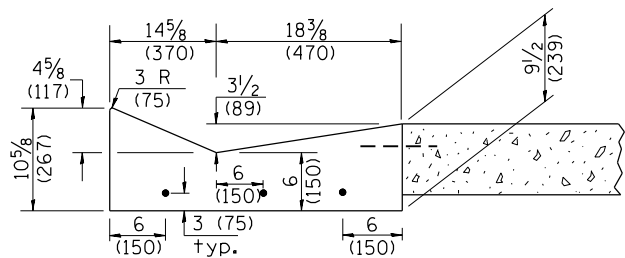
SHT. 1 OF 3
CADD STD. 606201-D4

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

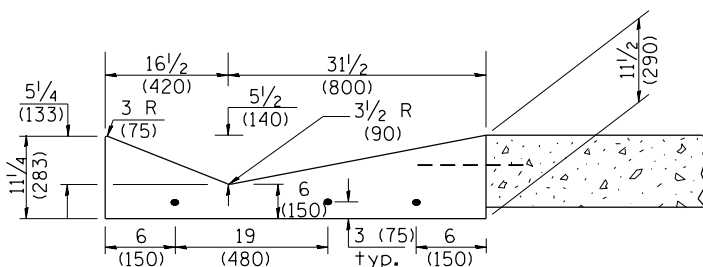
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	44
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68805	



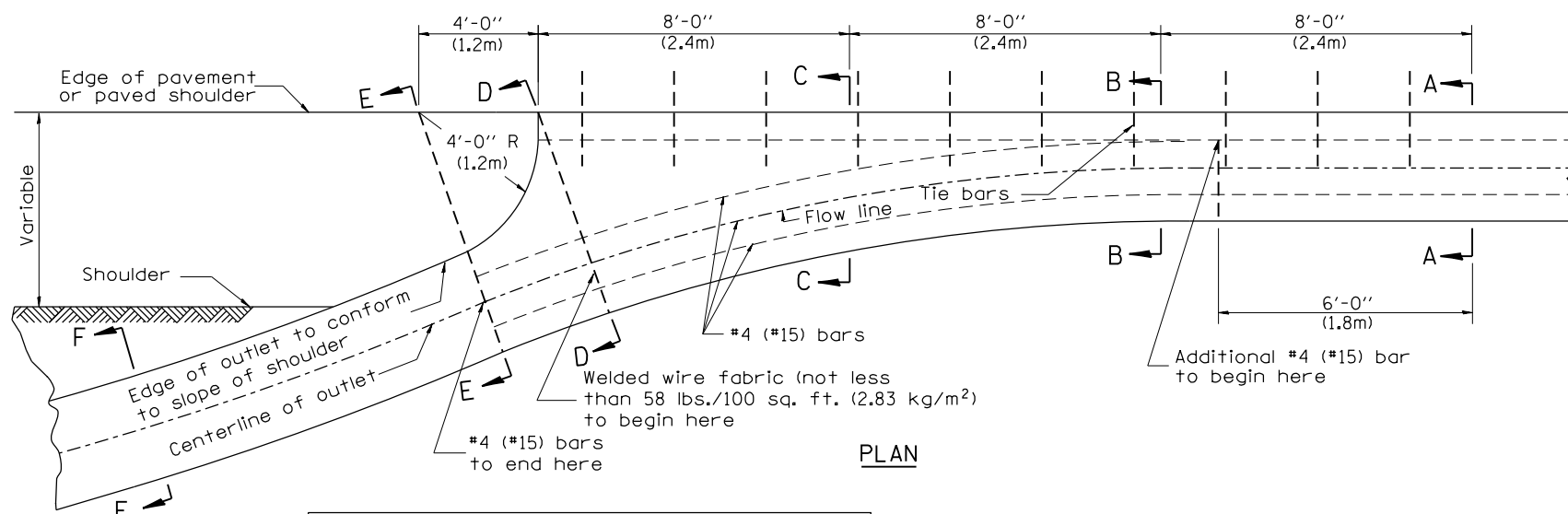
SECTION A-A



SECTION B-B



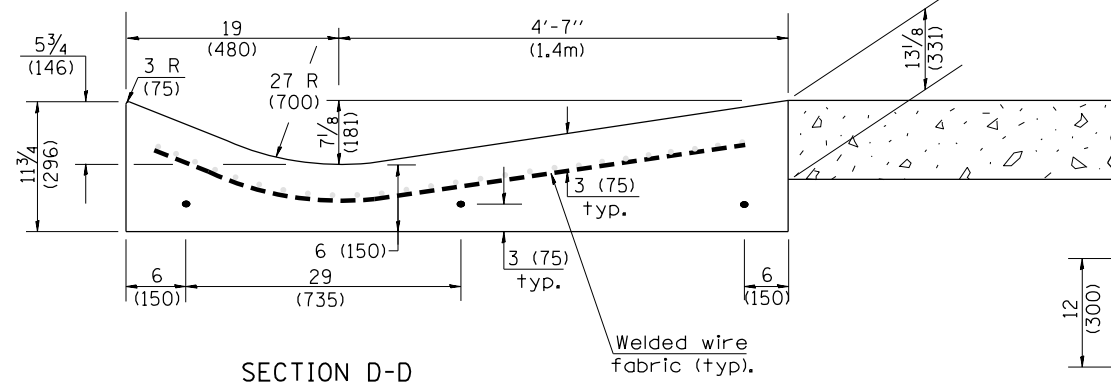
SECTION C-C



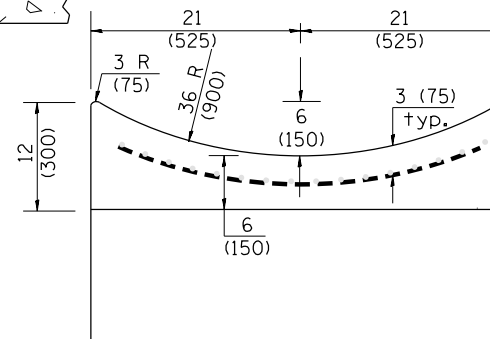
PLAN

QUANTITY
 Section A-A to E-E= 2.81 cu. yd. concrete.
 Section E-E to F-F= 0.09 cu. yd./ft. concrete.

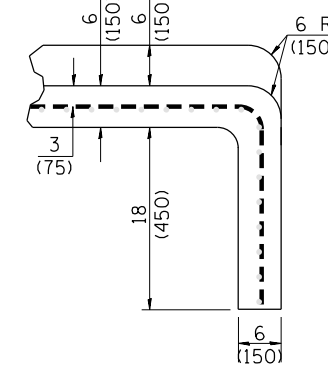
If the average grade of pavement for the distance from section A-A to section D-D exceeds 2%, this distance shall be increased 6 ft. (1.8m) for each 1% increase in grade. A quantity adjustment is required.



SECTION D-D

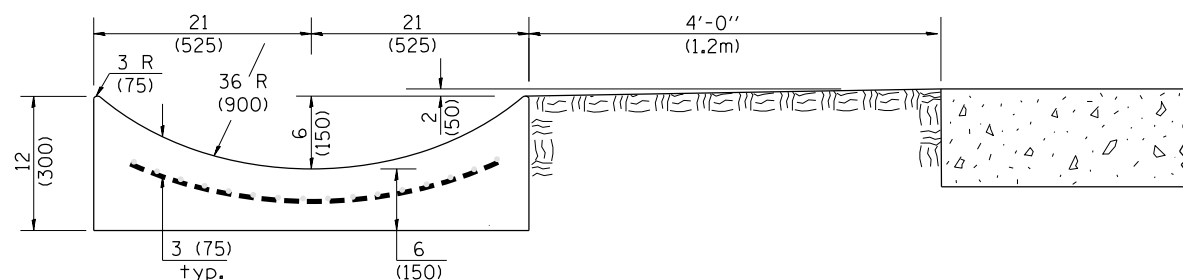


SECTION E-E

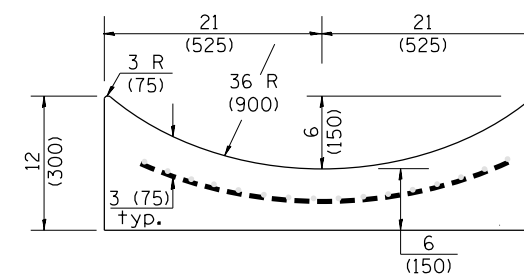


SECTIONS AT END OF OUTLET
(CURTAIN WALL)

QUANTITY
 Curtain Wall =
 0.1 cu. yd. concrete.



SECTION E-E

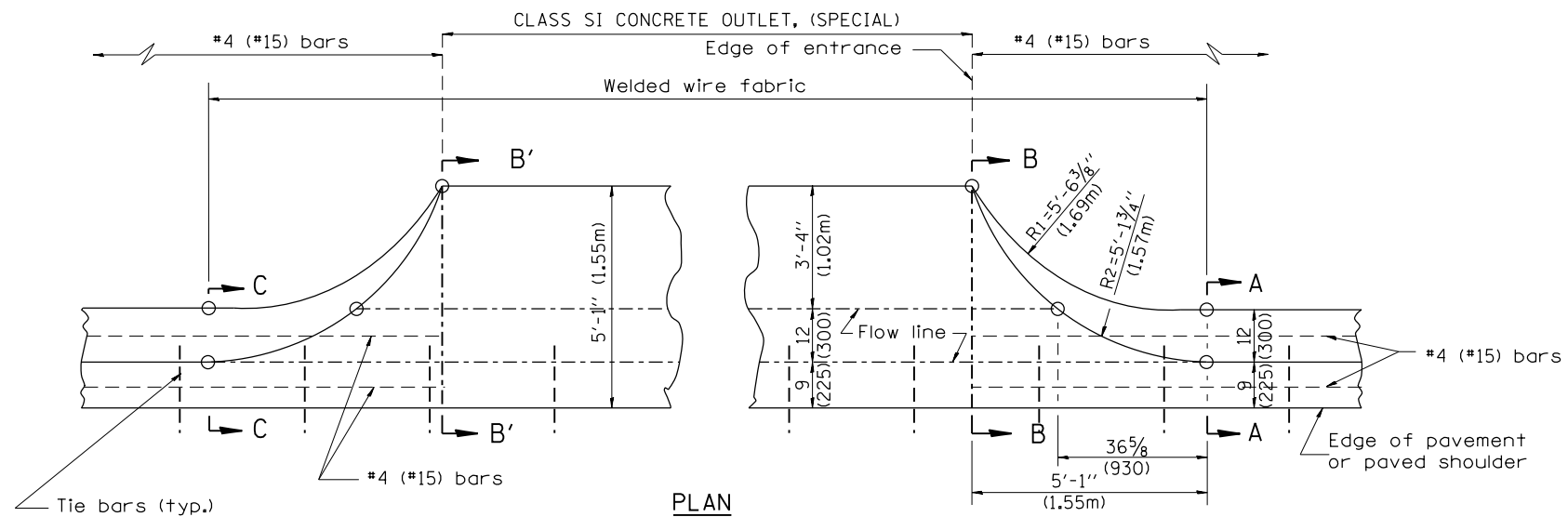


SECTION F-F

OUTLET

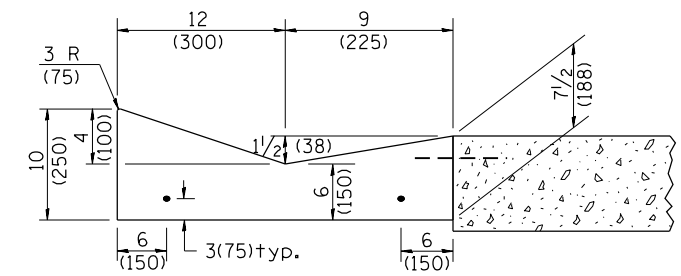
QUANTITIES
 CALC. BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____
 QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BR	WOODFORD	51	45
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68805	

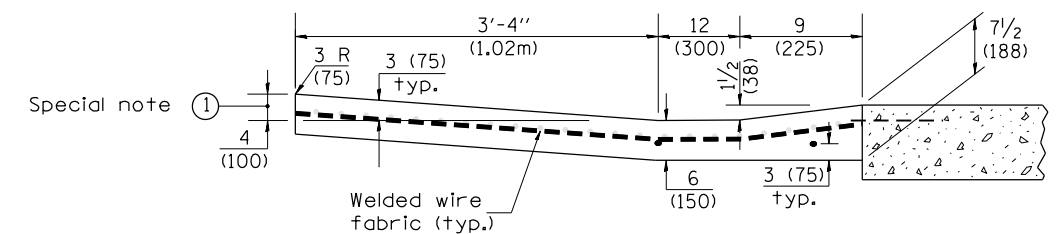


TYPICAL URBAN ENTRANCE

QUANTITY URBAN ENTRANCE
 Section B'-B' to B-B= 0.1 cu. yd./ft.
 Section C-C to B'-B' + B-B to A-A= 0.69 cu. yd.

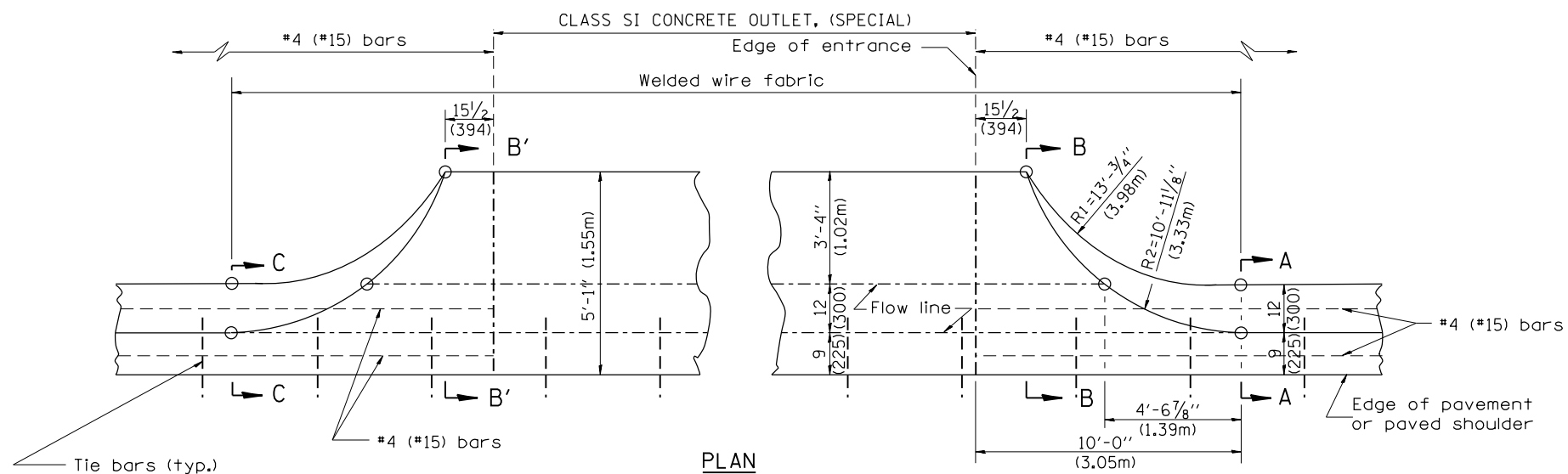


SECTION A-A & C-C



SECTION B-B & B'-B'

Special note ①



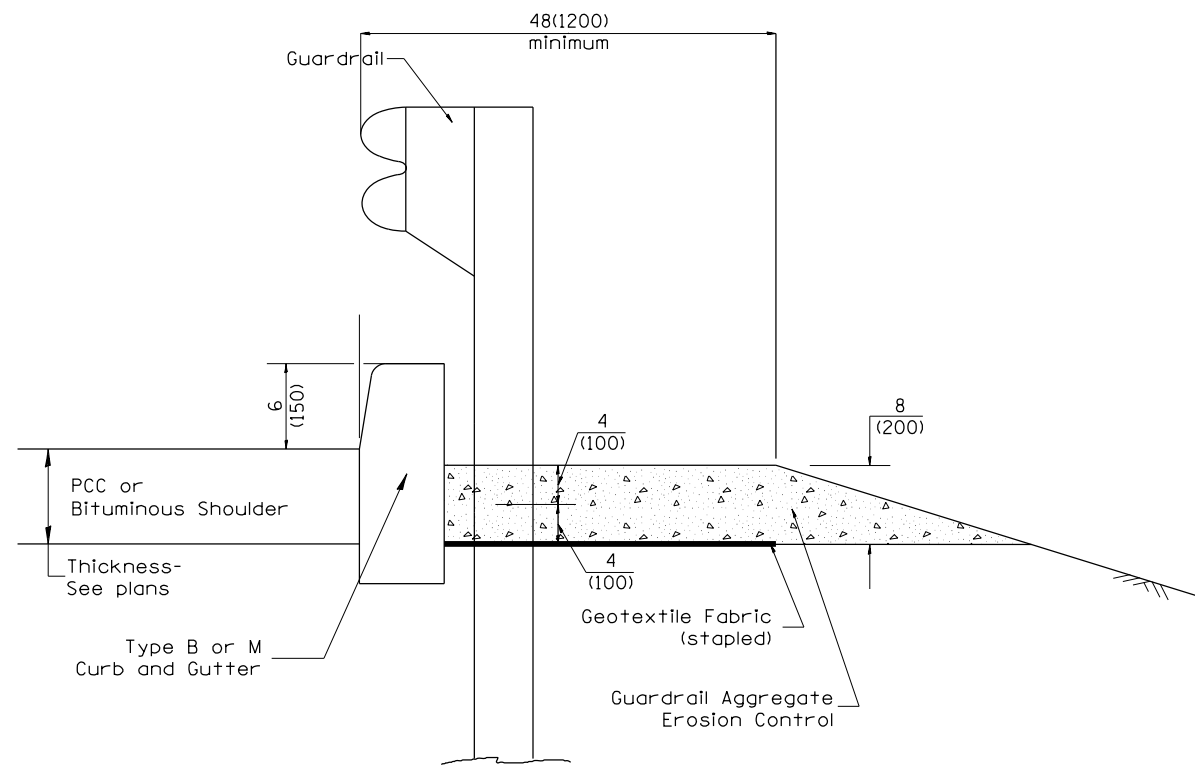
TYPICAL RURAL ENTRANCE

QUANTITY RURAL ENTRANCE
 Section B'-B' to B-B= 0.1 cu. yd./ft.
 Section C-C to B'-B' + B-B to A-A= 1.19 cu. yd.

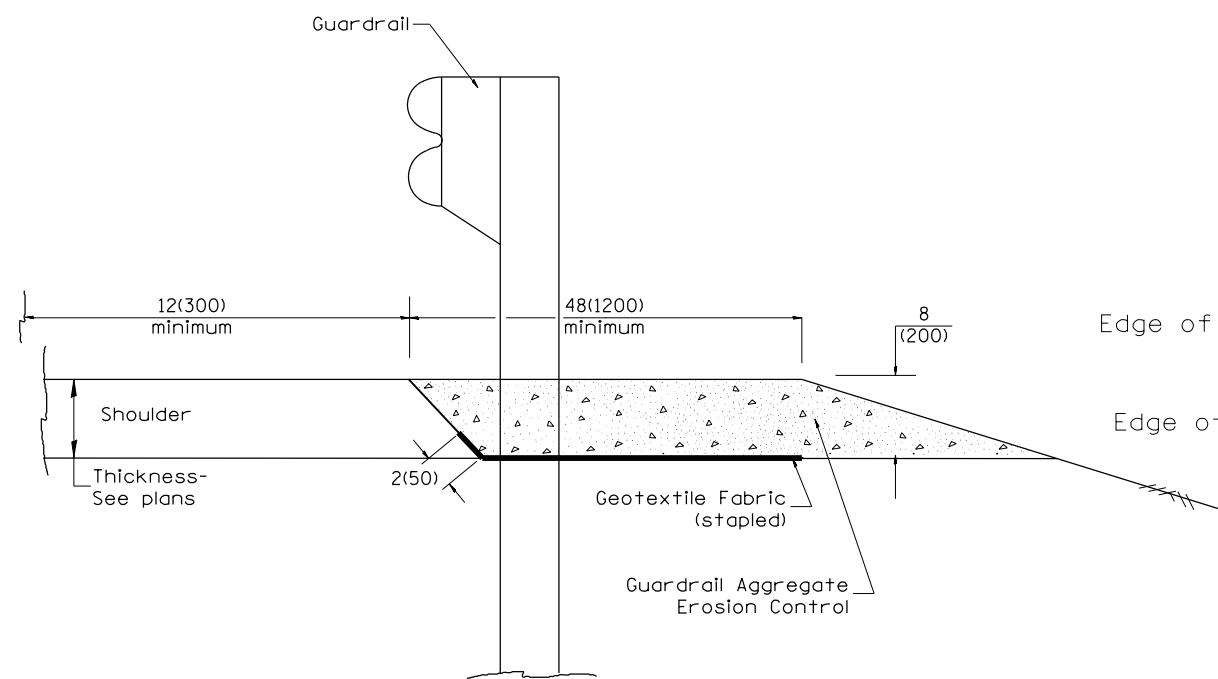
SPECIAL NOTES:
 ① 4 (100) is the normal dimension. If specified in the plans, the following shall be used for improved entrance match-up: Minimum - 2 1/2 (65) Maximum - 5 (125)

QUANTITIES
 CALC. BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____
 QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

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



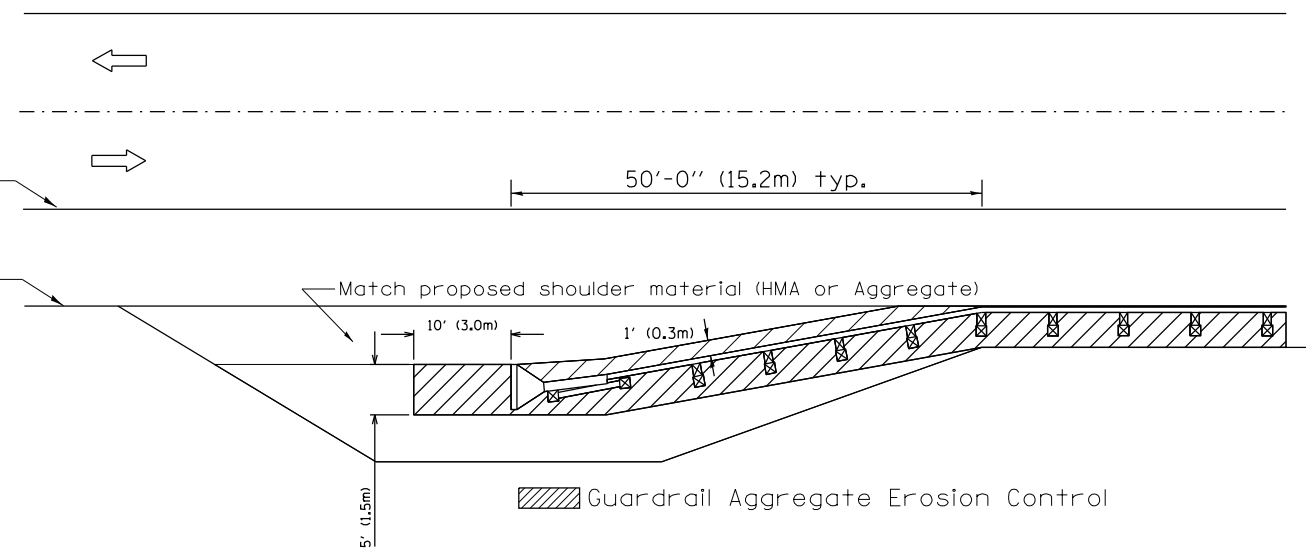
TYPICAL SECTION WITH EROSION CONTROL CURB



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

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



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

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

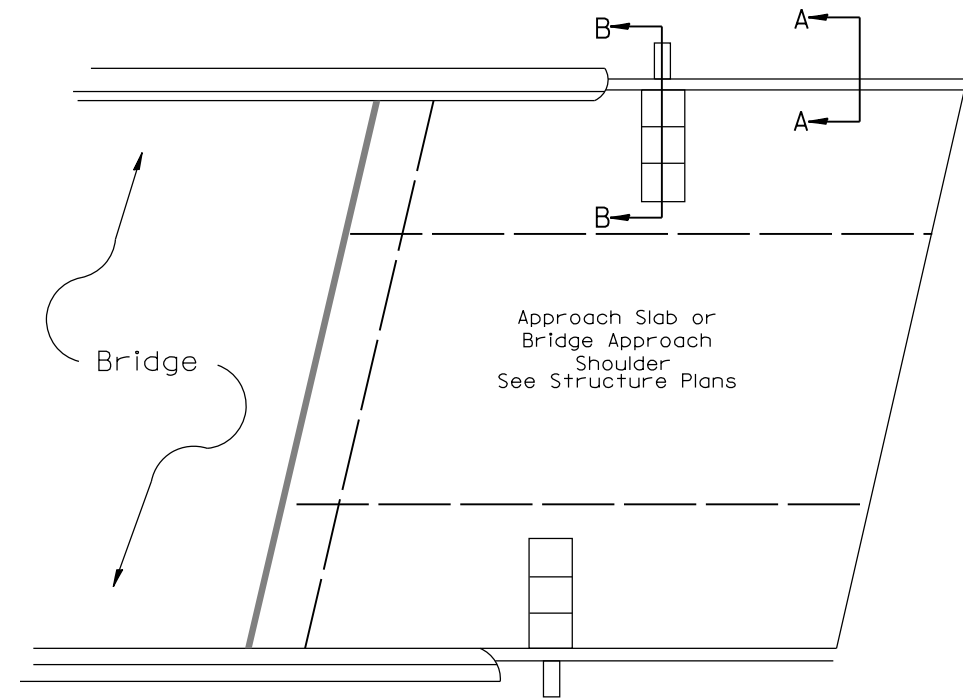
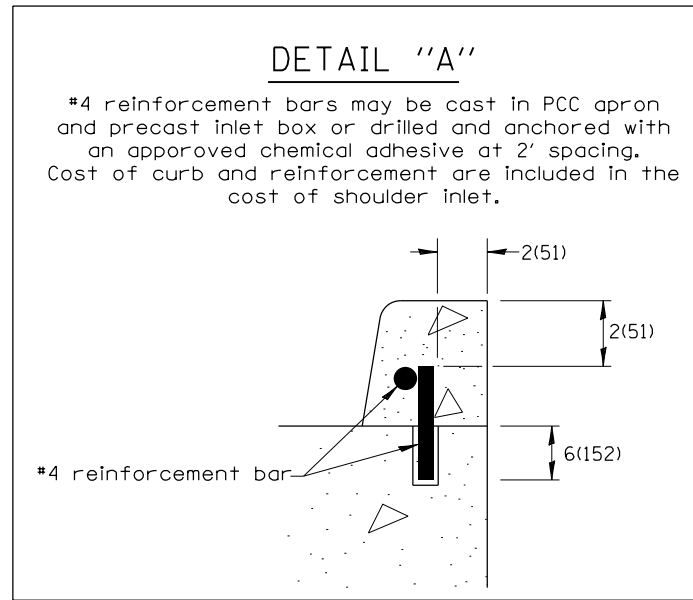
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GUARDRAIL EROSION CONTROL TREATMENTS

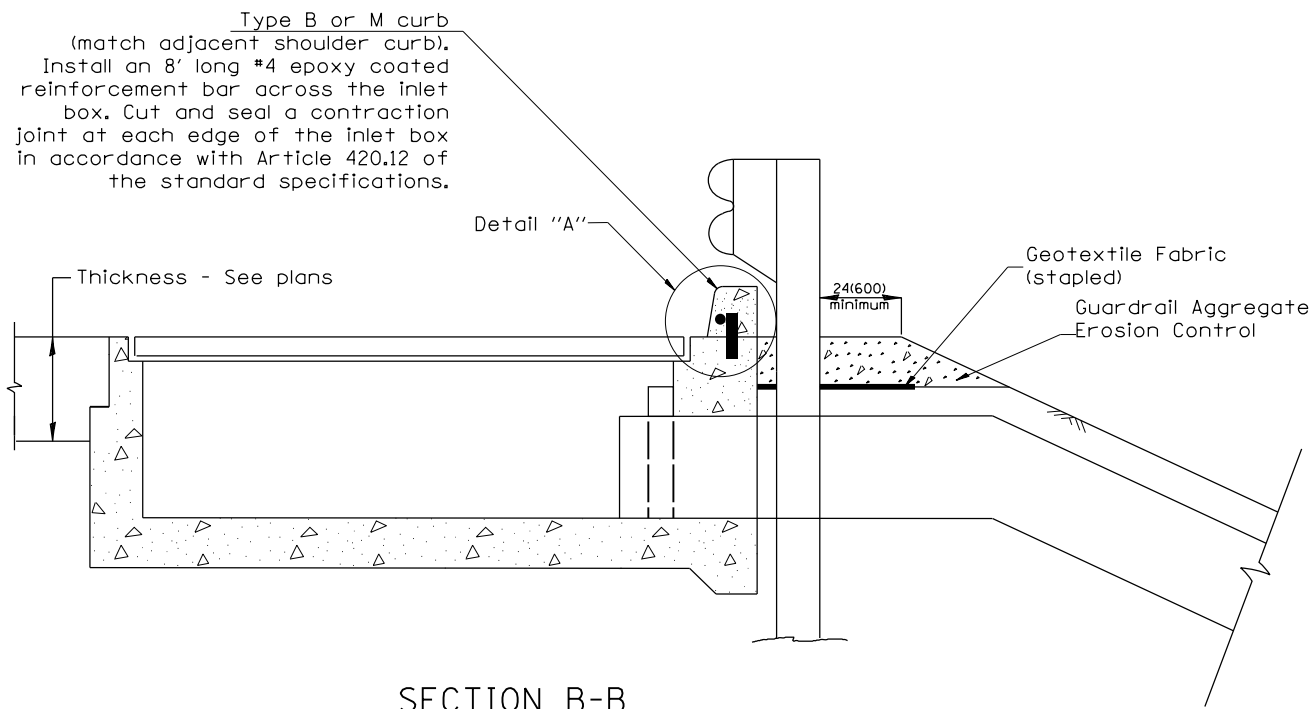
NOT TO SCALE

SHT. 1 OF 2
CADD STD. 630101-D4

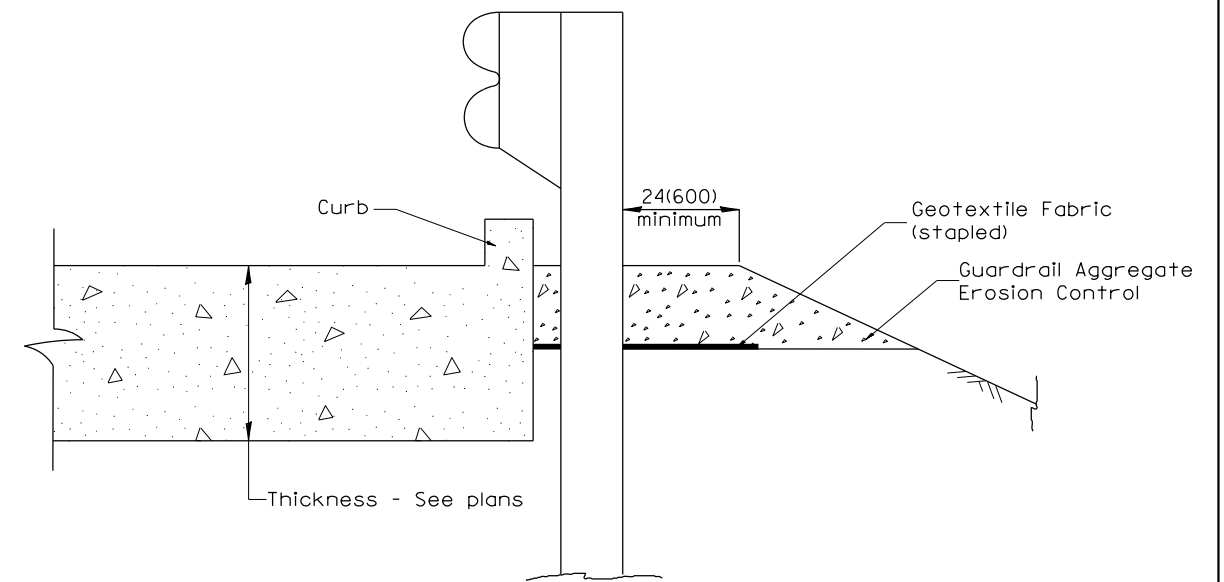
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	47
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68805	



PLAN VIEW
APPROACH SLAB OR SHOULDER PLACEMENT



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



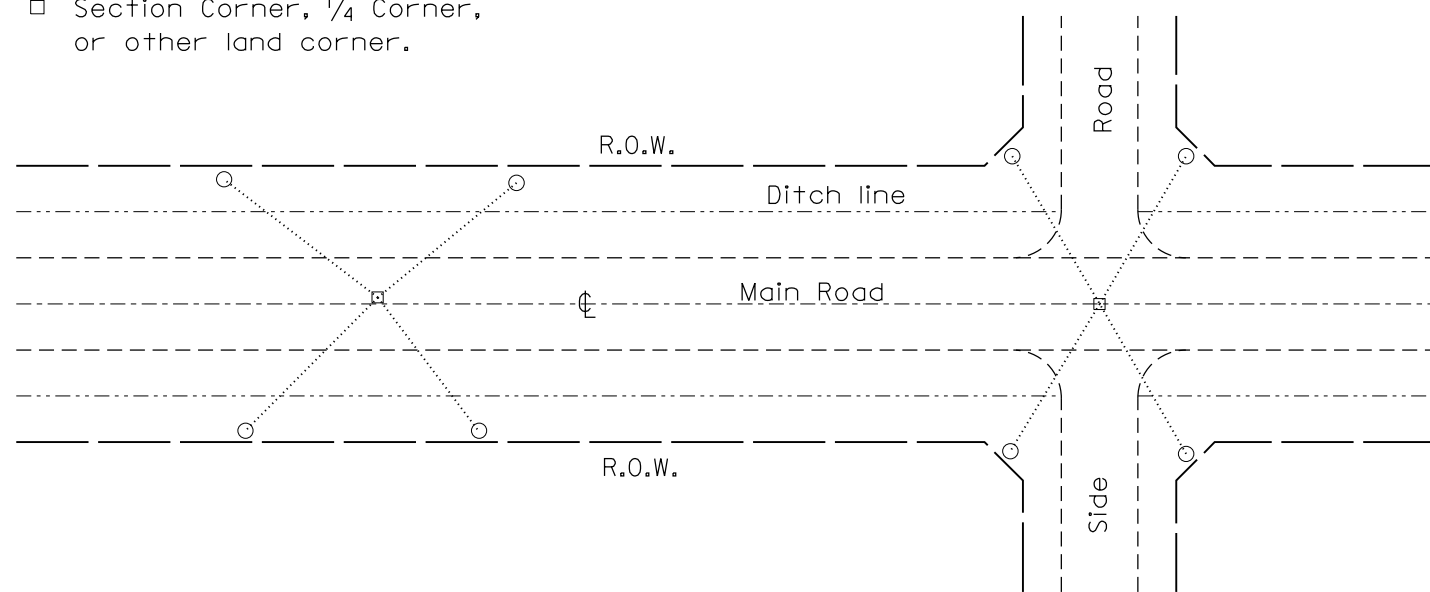
SECTION A-A
TYPICAL SECTION WITH BRIDGE APPROACH CURB

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

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				GUARDRAIL EROSION CONTROL TREATMENTS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				NOT TO SCALE				673	(108-BR)BRR	WOODFORD	51	48
				SHT. 2 OF 2 CADD STD. 630101-D4				CONTRACT NO. 68805				
								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PERMANENT SURVEY TIES

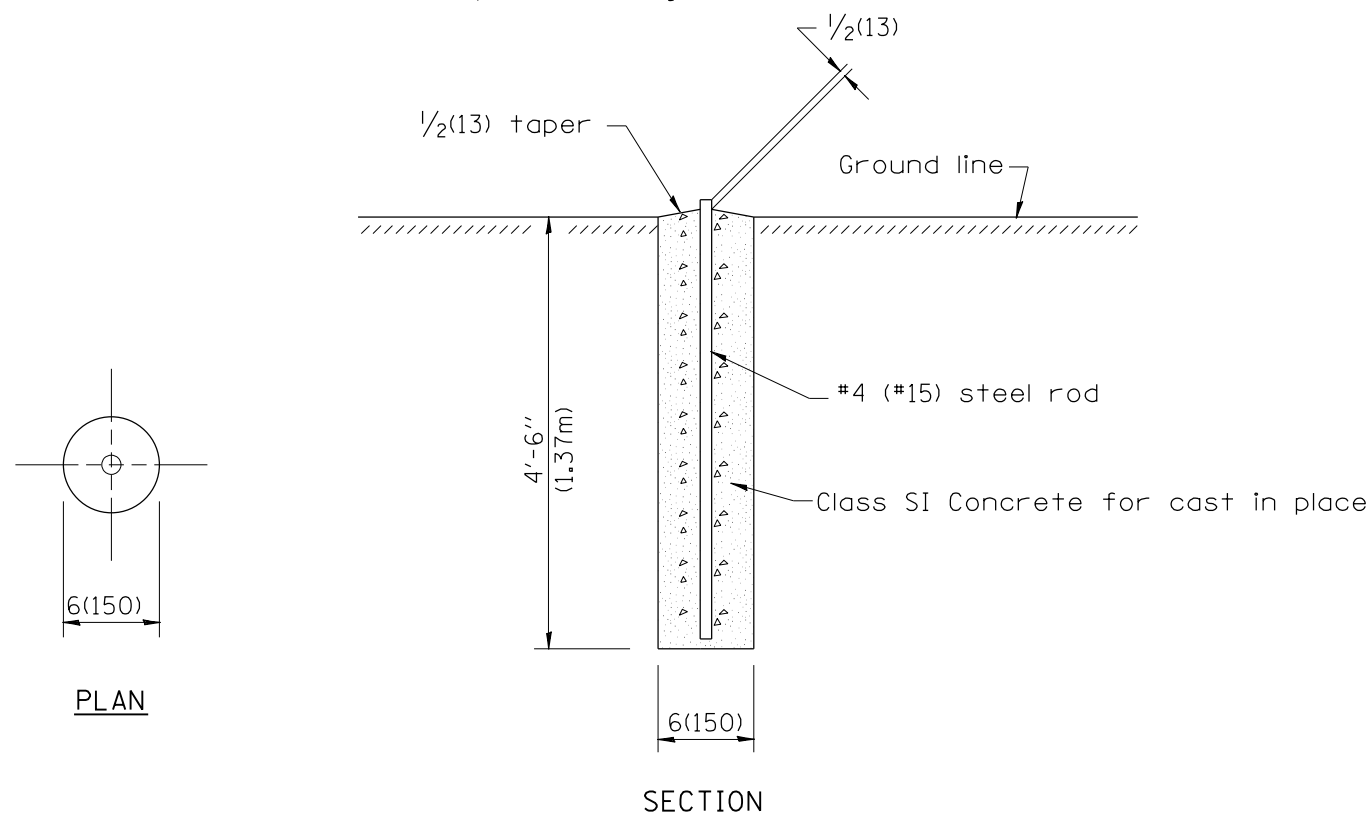
- Permanent Survey Tie
- Section Corner, 1/4 Corner, or other land corner.



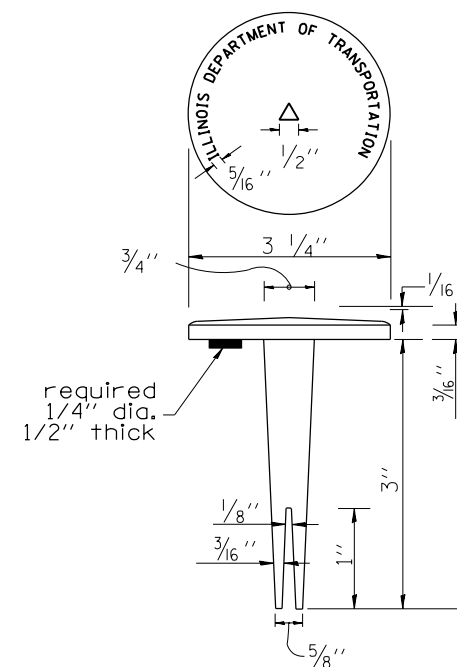
TYPICAL APPLICATION

GENERAL NOTES

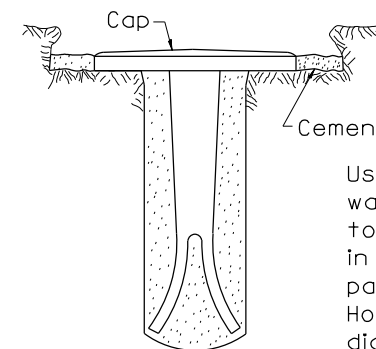
1. The marker shall be cast in place of Class SI Concrete.
2. Tie marker shall be installed after the final seeding has been completed unless otherwise specified by the Engineer.
3. The tie distances to the section corner shall be measured and recorded by the surveyor setting the PSM. All ties shall 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



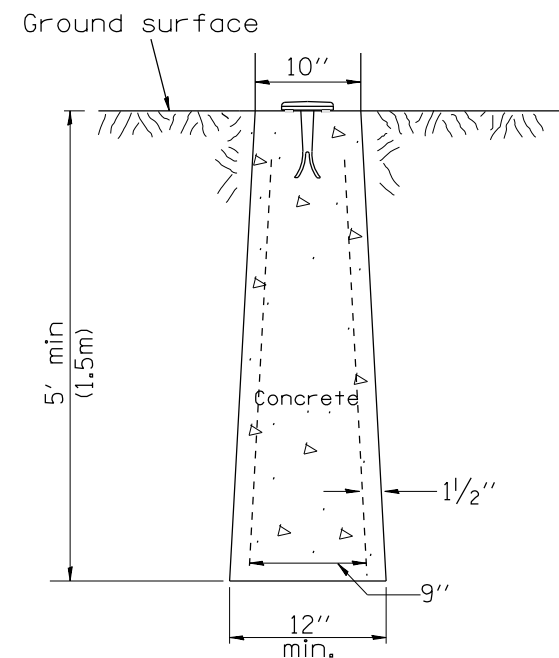
BRASS TABLET



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.
	TITLE BOX, ADD DESIGNER NOTE		01-04-11	REVISED FOR CORRECTIONS	R.D.
07-07-98	ADD DESIGNER NOTE	J.A.	08-21-13	CHANGED MIN. DIAMETER	R.D.
05-24-06	REMOVED GEN. NOTE UNDER TIES	M.A.	08-25-15	REVISED MATERIAL	R.D.

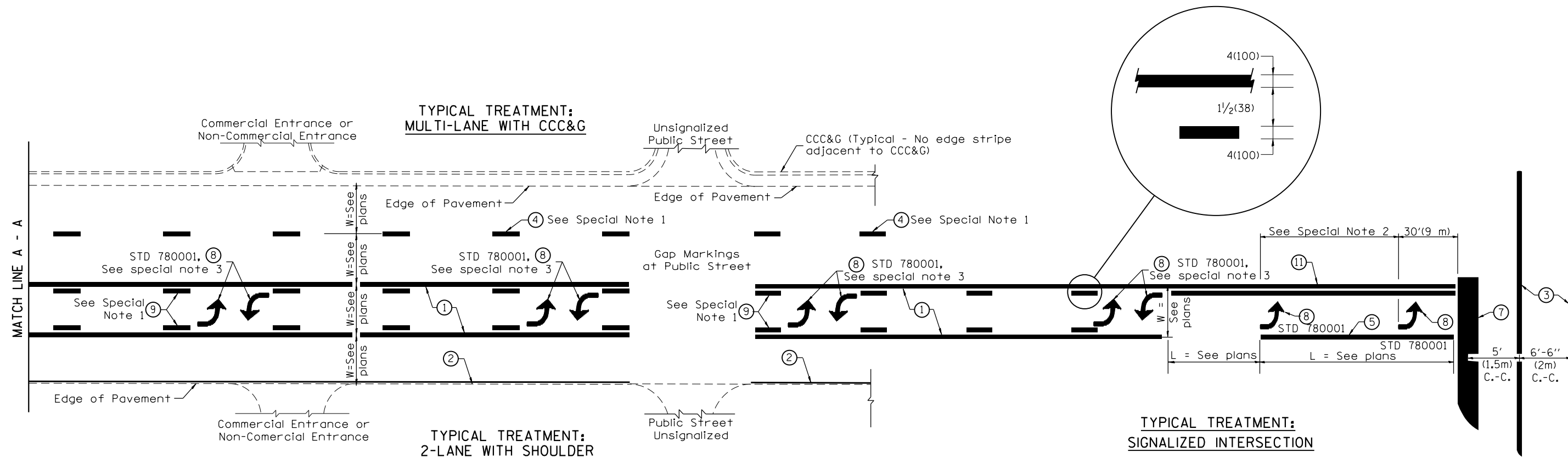
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PERMANENT SURVEY TIE &
PERMANENT SURVEY MARKERS TY.I - TY.II**

NOT TO SCALE

CADD STD. 667101-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	49
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68805	



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.	
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.	2/29/16	ADDED GROOVING AREAS	R.D.
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.			
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.			

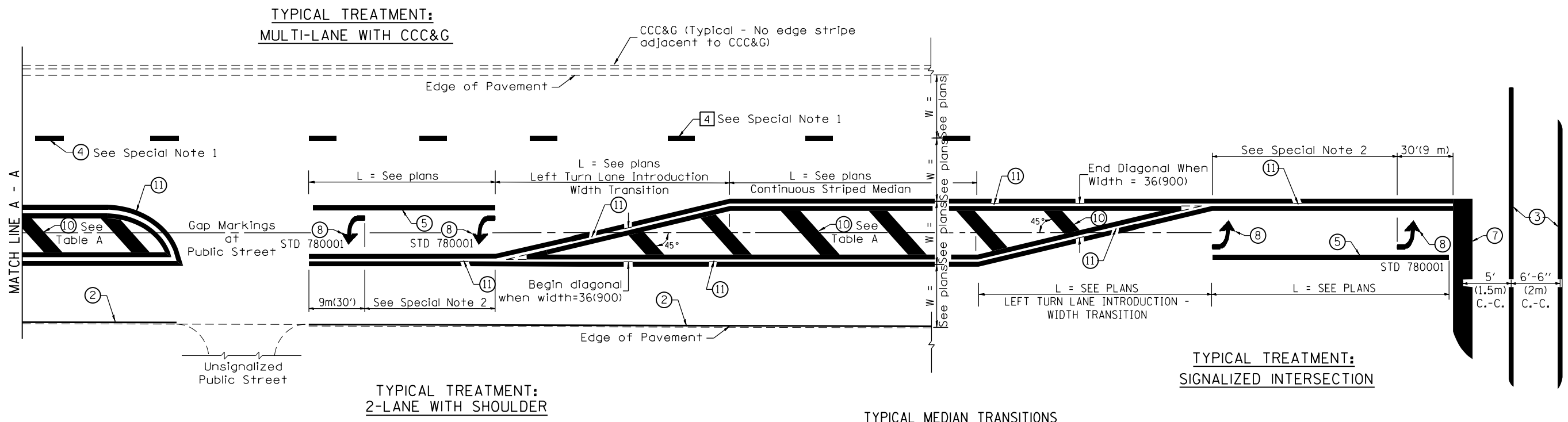
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

TYPICAL PAVEMENT MARKINGS

SHT. 1 OF 2
CADD STD. 780001-D4

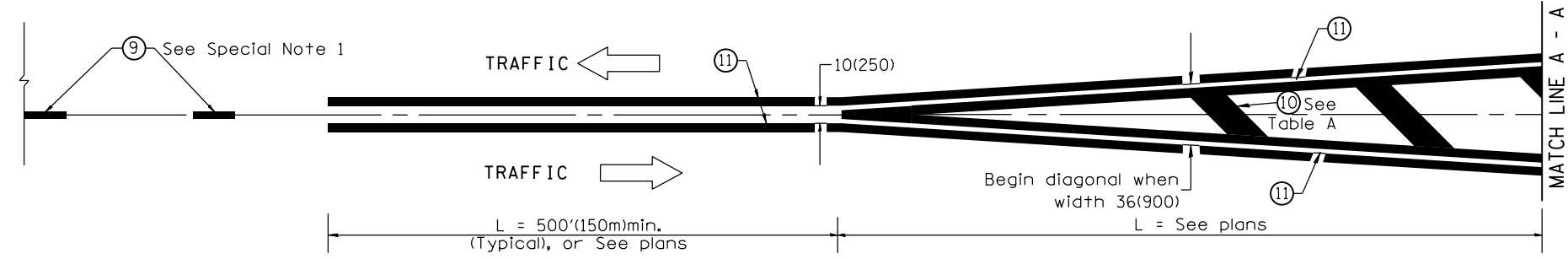
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(108-BR)BRR	WOODFORD	51	50
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68805	



FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A
RECOMMENDED SPACING BETWEEN DIAGONAL LINES

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



MEDIAN INTRODUCTION - WIDTH TRANSITIONS

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